

ANNUAL ACTION PLAN

JNKVV, JABALPUR

2023



**ICAR-Agricultural Technology Application Research Institute,
Indian Council of Agricultural Research
Zone IX, Jabalpur, M.P.**

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ANNUAL ACTION PLAN 2023

KVK Balaghat

Year of sanction 28/03/1991

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.L. Raut	KVK, Badgaon, Balaghat	9425896702	rshn_raut71@yahoo.com

1.2 Staff Position on (31th Dec.2022)

S. N o.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. R.L. Raut	Senior Scientist & Head	Horticulture	143600	01.02.2019	2019	9425896702	rshn_raut71@yahoo.com	
2	Subject Matter Specialist	Dr. S.R. Dhaware	Scientist	Agril. Ext.	107200	03.03.2007	2007	9424752492	srdhware@gmail.com	
3	Subject Matter Specialist	Vacant	-	-	-	-		-	-	-
4	Subject Matter Specialist	Vacant	-	-	-	-		-	-	-
5	Subject Matter Specialist	Vacant	-	-	-	-		-	-	-
6	Subject Matter Specialist	Vacant	-	-	-	-		-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-		-	-	-
8	Programme Assistant	Dr. Ramesh Amule	Programme Assistant	Plant Pathology	40800	03.10.2018	2018	9893995746	rameshamule@gmail.com	
9	Computer Programmer/ Programme Assistant	Miss. Anjna Gupta	Programme Assistant	Computer Science	38430	06.11.2020	2020	9165019234	anjna.jbp84@gmail.com	
10	Farm Manager	Vacant	-	-	-	-		-	-	-
11	Assistant	Vacant	-	-	-	-		-	-	-
12	Jr. Stenographer / Comp. Operator	Vacant	-	-	-	-		-	-	-
13	Driver	Sh. Dilip Kumar Shiv			31200	11.07.2008	2008	8103797340		
14	Driver	Vacant	-	-	-	-		-	-	-
15	Supporting staff	Vacant	-	-	-	-		-	-	-
16	Supporting staff	Vacant	-	-	-	-		-	-	-

1.3 Total land with KVK (in ha) : 19.7

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2	Under Demonstration Units	0.4
3	Under Crops	10
4	Orchard/Agro-forestry	0.4
5	Others (specify)	8.5
Total		19.7

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building							
2	Farmers Hostel							
3	Staff Quarters (6)							
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							
	Net House	ATMA	25/12/2021	128	1,40,000			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2018	777268	-	Good
Motor Cycle 2				
Bolero(Jeep)	2018	755853	102151	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2019	10763	Good
Xerox Machine	2016	70500	Poor
Video Camera	2004	1720	Good
Computer, Laser Printer	2003	65000	Good
UPS 600 VA	2003	14500	Poor
Stabilizer 2 KVA	2019	6508	Good
Stabilizer	2019	14352	Good
Inverter 600 VA (2)	2017	4000	Good
Inverter Battery (2)	2017	43900	Good
New Vertical blinds	2016	2235	Good
Printer Epson L-220	2016	10950	Good
Godraj Numero nozable	2016	74676	Good
Godraj Ex Rev H/B	2016	14399	Good
Sprayer Pump 4.5 HP	2016	24500	Good
Board (7X3X4)	2016	4560	Good
Board (7X3X4)	2016	3420	Good
Pipe	2016	2294	Good
Board (7X3X4)	2016	4560	Good
Board (7X3X4)	2016	4560	Good
Rotavator	2017	99152	Good
Tractor (GEM)	2017	620228	Good
Sumsung LED	2017	82900	Good
Coller	2017	9736	Good

Zero Tillage seed Cum-Fertilizer	2017	53900	Good
Paddy Power Weeder	2017	33500	Good
Freej	2017	25990	Good
Inverter AC (LG 1.5)	2017	43900	Good
Ahuja Mike	2017	15840	Good
Ahuja Mike	2017	2550	Good
Ahuja SP	2017	8270	Good
HP Lager Jet Printer	2017	9800	Good
Cultivator	2017	25500	Good
Cage Wheel	2017	27400	Good
Azolla Shed	2018	8542	Good
Azolla Shed	2018	11456	Good
Tractor Shed	2018	13220	Good
Tractor Shed	2018	13220	Good
Shed Teen Chadar	2018	10169	Good
Iron (Apiculture)	2018	8814	Good
Tetra Stand (Bio.)	2018	1695	Good
Iron	2018	14542	Good
Teen Chadar (10 F)	2018	28474	Good
Iron	2018	21814	Good
Nalidar Chadar (12 F)	2018	30508	Good
Bruph Cutter	2018	14500	Good
Fallor Hedge shart	2018	600	Good
Lown MoveI	2018	4950	Good
Coller (4 Fut)	2019	16695	Good
Stablizer+Outdoor stand	2019	14352	Good
AC Voltas	2019	55085	Good
Stablizer 4 KVA	2019	6508	Good
Jeep (Bolero)	2019	755853	Good
MB Plough	2019	19048	Good
Power Tiller	2019	140214	Good
Hath Thela	2019	6428	Good
HP Printer 1020+	2019	11695	Good
Aluminium Lable	2019	1138	Good
Plastic Pegs	2019	850	Good
Pin Up Notice Board	2019	13250	Good
Starter electric	2019	33041	Good
lamination Machine	2019	1864	Good
FAN	2019	6000	Good
Kithcen Utensils	2019	5322	Good
HP Desktop	2019	42203	Good

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15/05/2023
2	10/10/2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Balaghat	Chhattisgarh Plane	10	693	1701156	67.46	7.37% (SC) & 22.5 % (ST)	131951	1.2

S. No.	Farming system/enterprise	Description
1	Rice+Pigeonpea – Chickpea / Black gram / Linseed	
2	Rice+Pigeonpea – Rice	
3	Rice+Pigeonpea – fallow	
4	Rice+Pigeonpea –Wheat/Mustard/Chickpea/Lathyrus - Green gram	
5	Kodo / kutki / Niger – fallow	

6	Vegetables – Vegetables	
7	Fruits – Fruits	
8	Sugarcane	
9	Water chestnut	
10	Dairying	
11	Poultry	
12	Maize – Mustard/Toria	
13	Goatary	
14	Fisheries	

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics		
1	Agro Ecological Sub Region (ICAR)	Central Highlands (Malwa And Bundelkhand), Hot Subhumid (Dry) Eco sub region (10.4)		
2	Agro Climatic Region (Planning Commission)	Eastern Plateau and Hills Region (VII)		
3	Agro Climatic Zone (NARP)	Chattisgarh Plain Zone (MP-1)		
4	List all the districts or part thereof falling under the NARP Zone	Balaghat, Dindori, Mnadla, Seoni.		
5	Geographic coordinates of district headquarters	Latitude 21° 19' to 22° 24' N	Longitude 73° 31' to 81° 30' E	Altitude 330 MSL
6	Name and address of the concerned ZRS/ ZARS/ RARS/ RRS/ RRTTS	Zonal Agricultural Research Station , Chhindwara, Regional Agricultural Research Station , Waraseoni		
7	Mention the KVK located in the district	Programme Coordinator Vill.- Badgaon, Post- Pala, Teh- Kirnapur, Distt- Balaghat (MP)		

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	924.5
Forest	505
Waste Land	
Other than cultivated area	302.5
Cultivable waste and alkaline land	28
Pastures	30.9
Bushes	
Current Fallow	13.4
Other Fallow	15.9
Agricultural Land	682.8
Area Sown	68.2
Kharif	270.4
Rabi	52.1
Zaid	
Cropping Intensity	

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	85189
2	Well	20908
3	Tube well	235
4	Ponds	29878
5	Others	6379

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Sandy soil		2 %
2	Sandy loam		21 %
3	Clay loam		44 %
4	Clay Soil		33 %

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	269	1128	4195
2	Maize	12	30	2528
3	Kodo - Kutki	4.4	4	995
	Total Cereals	285.4	2203	7718
4	Black Gram	1.1	1	725
5	Arhar	10.4	20	1950
	Total Pulses	11.5	31	2675
6	Seasemum	2.3	2	990
	Total oilseeds	2.3	2	990
	Total Kharif	299.2	3406	11383
1	Wheat	76.6	118	1540
2	Chick pea	57.3	71	1238
3	Mustard	23.8	15	640
4	Linseed	25.6	12	450
5	Pea	3.0	3	850
6	Sugarcane	3.3	27	8295
	Total Rabi	189.6	2467	13013

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	5	349.9	815.9
Feb, 22	14	818	367.3
Mar, 22	0	1151.2	560.9
Apr, 22	0	1245.3	721
May, 22	5	1288.2	826
Jun, 22	119.5	1153.8	787.4
July, 2022	476.9	970.2	776.2
Aug., 2022	605	969.5	771.4
Sept., 2022	330.5	962.1	735.4
Oct. 2022	0	998.9	648
Nov. 2022	0	928.4	391.8
Dec. 2022	0	929.3	408.8

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	552.8	 MT.	 kg
Buffalo	194.9	 MT.	 kg
Sheep			
Crossbred/ Indigenous	0	 MT wool	 kg
Goats		 MT	 kg
Pigs Crossbred/ Indigenous	22.4	---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others	437644		
Category	Area	Production	Productivity
Fish	976 (ha)	1Q/ month	1.22 Q/ ha.

Details of Operational area / Villages (2022)

S.No	KVK	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Balaghat	Balaghat	Aonlajhari	Paddy, Animal Husbandry	Low yield due Paddy diseases, Insect pest, unavailability of improve seed, mono cropping, Chemical Hazards	Seed replacement, IPM, IDM, crop diversification, Fodder management, animal health management, Soil Health Management, Natural farming, Farm mechanization, Income generation activity
2	Balaghat	Lalbarra	Botte	Paddy, Animal Husbandry	Low yield due Paddy diseases, Insect pest, unavailability of improve seed, mono cropping, Chemical Hazards	Seed replacement, IPM, IDM, crop diversification, Fodder management, animal health management, Soil Health Management, Natural farming, Farm mechanization, Income generation activity

Priority / Thrust areas

S. No.	Particulars
1.	Crop Diversification with fodder/forage crops to increase cropping intensity
2.	Need to create awareness about crop residues treatment for livestock's
3.	Varietal replacement of Rice, linseed, Wheat, Chick pea, mustered, kodo, pigeon pea, blackgram, Greeengram etc.
4.	Balance feeding of milch animal and health management.
5.	Hybrid Rice and its introduction in irrigated area.
6.	Need to develop orchards and cultivation of vegetables.
7.	Need to emphasis on hi-tech horticulture.
8.	Need to create awareness about IPM in Rice, Pigeonpea & chickpea
9.	Need to create awareness about seed replacement
10.	Need to create awareness about newly released high yielding varieties
11.	Integrated Nutrient management in Rice, wheat, blackgram, Greengram and Chick pea.
12.	Need to create awareness about Medicinal crops.
13.	Crop Diversification and to increase cropping intensity.
14.	Need to organize vocational training on fisheries, mushroom production, sericulture, lac cultivation, backyard poultry, Quail farming, prawn cultivation, etc for self employment of rural youth.
15.	Drudgery reduction.
16.	Processing, Value addition and marketing.
17.	Animal Disease Management
18.	Income generation activities.
19.	Need to create awareness of nutritional management for children and women & kitchen garden.
20.	Fodder management for Milch animals
21.	To create awareness for Mechanization
22.	To create awareness for production of cashew nut, water chestnut & Foxtail nut.
23.	Skill development in small scale agric-entrepreneurship.
24.	To create awareness about bio fortified varieties of Rice and Wheat.

TECHNICAL PROGRAMME
A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
15	255	11	55

Training			Extension Activities	
3			4	
Number of Courses	Duration Days	Number of Participants	Number of activities	Number of participants
54	80	2000	130	7750

Seed Production (Qtl.)		Planting material (Nos.)	
300		10000	

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Natural Farming	Rice	Hazards of chemical fertilizers and pesticide (3.0 Lakh ha)	Assessment of Natural farming ingredient for rice var. Improved Chinnor cultivation. (2nd year)	IDM - Seed treatment with Pseudomonas, spray of Azoxystrobin 18.2 + Difenconazole 11.4%	Training on Natural Farming	Training on Natural Farming	Krishak Sangoshti	Seeds
2	Natural Farming	Rice	Hazards of chemical fertilizers and pesticide (3.0 Lakh ha)	Assessment of Natural farming ingredient for rice var. Kali Kammod Selection 1 cultivation. (1st year)	Production of JR 81	Training on Natural Farming	Training on Natural Farming	Krishak Sangoshti/Field day	Seeds
3	Natural Farming	Rice	Hazards of chemical fertilizers and pesticide (3.0 Lakh ha)	Assessment of Natural farming ingredient for rice var. Luchai Selection 1 cultivation. (1st year)	Broccoli with rice straw mulching	Training on Natural Farming	Training on Natural Farming	Krishak Sangoshti/Field day	Seeds
4	Variety evaluation	Kodo	Low yield of Kodo Variety due to use of local seed	Assessment of Natural farming ingredient for kodo var. JK 48 (1st year)	Sowing of chickpea with Zero till seed drill	Training on Kodo	Training on Kodo	Krishak Sangoshti/Field day	Seeds
5	Rice	Horticulture	Low income from submerged paddy field	Assessment of Makhana crop in submerged paddy field at Balaghat condition	Production of Wheat JW 3336	Training on Makhana cultivation	Training on Makhana cultivation	Krishak Sangoshti/Field day	Seeds
6	Variety evaluation	Chickpea	Low yield old variety (JG-315)	Assessment of Chickpea JG 24 under rice-chickpea cropping system	HYV of Mustard RH 0749	Training on Chickpea	Training on Chickpea	Krishak Sangoshti/Field day	Seeds
7	Variety evaluation	Wheat	Low yield of Wheat due to rapid increase in temperature during February	Assessment of Wheat HI 1634 under Rice-Wheat cropping system	Oyster Mushroom	Training Wheat Rice	Training Wheat Rice	Krishak Sangoshti/Field day	Seeds
8	ITK/Plant Protection	Lady's finger	Heavy attack of insect pest in lady's finger (Area 607 ha)	Assessment of ITK for "Management of insects in lady's finger by spraying cow urine mixed with tobacco	IPM for pigeon pea pod borer	Training on ITK	Training on ITK	Krishak Sangoshti/Field day	Seeds

				soaked water”					
9	Crop diversification	Chick pea	Heavy plant mortality in chickpea due to collar rot in Rice – chickpea cropping system (65000 ha)	Assessment of IDM for Collar rot in chickpea under Rice – chickpea cropping system.	IPM for chickpea pod borer	Training on Rice Chickpea	Training on Rice Chickpea	Krishak Sangoshti/Field day	Seeds
10	IPM/Plant Protection	Rice	Heavy attack of panicle mite in rice (15000ha)	Assessment of IPM for panicle mite in Rice .	Production of Rice var. JR 4	Training on IPM for panicle mite in Rice	Training on IPM for panicle mite in Rice	Krishak Sangoshti/Field day	Seeds
11	IPM/Mustard	Mustard	30-40 % loss in yield due to attack of aphid in mustard (Affected area 20000 ha.)	Assessment of IPM module for Mustard aphid	Plant protection for chilli leaf curl	Training on IPM module for Mustard	Training on IPM module for Mustard	Krishak Sangoshti/Field day	Seeds
12	ICT	KISAN SARTHI	Non availability of technical knowledge in critical time	Assessment of effectiveness of KISAN SARTHI for Management of Paddy Blast & Bacterial leaf blight in Rice	-	Training on Kisan Sarthi	Training on Kisan Sarthi	Krishak Sangoshti/Field day	-
13	ICT	KISAN SARTHI	Non availability of technical knowledge in critical time	Assessment of effectiveness of KISAN SARTHI for Management of Stem borer in Rice	-	Training on Kisan Sarthi	Training on Kisan Sarthi	Krishak Sangoshti/Field day	-
14	ICT	Rice Gall midge	Delay and lack of visual based technical information	Assessment of effectiveness of WhatsApp messages for Management of Rice Gall midge	-	Training on WhatsApp rice gall midge	Training on Whatsapp rice gall midge	Krishak Sangoshti/Field day	-
15	Capacity building & Dynamics	soil health card	Problematic and poor health of soil results in high cost of cultivation and low income. Poor knowledge about SHC recommendations	Assessment of knowledge & adoption of soil health card based fertilizer application	-	Training on soil health card	Training on soil health card	Krishak Sangoshti/Field day	-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
Natural Farming	Rice									1
Natural Farming	Rice									1
Natural Farming	Rice									1
Variety evaluation			Kodo							1
Horticulture	Rice									1
Varietal evaluation			Chickpea							1
Varietal evaluation	Wheat									1
ITK/Plant Protection				Lady's finger						1
Crop diversification			Chickpea							1
IPM/Plant Protection	Rice									1
IPM/Mustard		Mustard								1
ICT				KISAN SARTHI						1
ICT				KISAN SARTHI						1
ICT				Rice Gallmidge						1
Capacity building & Dynamics				soil health card						1

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL								

Details of On Farm Trial (OFT)**OFT-1**

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of Natural farming ingredient for rice var. Improved Chinnor cultivation. (2nd year)
Problem diagnosed	Hazards of chemical fertilizers and pesticide (3.0 Lakh ha)
Farming situation	Rainfed/Irrigated
Production system and thematic area	Rice-Chickpea /Natural Farming
Farmers' practices	T1- Use of chemical fertilizers and pesticides
Details of technologies selected for assessment/refinement Treatments	T2- Use of Beejamrit, Jeevamrit, Ghanjeevamrit Brahmastra, Nimastra, Amritpani, Dashparniy ark
Source of technology	Acharya Devvrit Ji
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	1
Critical input	Seed and drum
Performance indicators Observation to be recorded	Organic carbon content of soil, Fertilizer saving, Pesticide saving, Yield, Rate of produce
Cost of input	Rs. 2000
Total cost	Rs. 10000

OFT-2

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of Natural farming ingredient for rice var. Kali Kammod Selection 1 cultivation . (1st year)
Problem diagnosed	Hazards of chemical fertilizers and pesticide (3.0 Lakh ha)
Farming situation	Rainfed/Irrigated
Production system and thematic area	Rice-Chickpea /Natural Farming
Farmers' practices	T1- Use of chemical fertilizers and pesticides
Details of technologies selected for assessment/refinement Treatments	T2- Use of Beejamrit, Jeevamrit, Ghanjeevamrit Brahmastra, Nimastra, Amritpani, Dashparniy ark
Source of technology	Acharya Devvrit Ji
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	1
Critical input	Seed and drum
Performance indicators Observation to be recorded	Organic carbon content of soil, Fertilizer saving, Pesticide saving, Yield, Rate of produce
Cost of input	Rs. 2000
Total cost	Rs. 10000

OFT-3

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of Natural farming ingredient for rice var. Luchai Selection 1 cultivation . (1st year)
Problem diagnosed	Hazards of chemical fertilizers and pesticide (3.0 Lakh ha)
Farming situation	Rainfed/Irrigated
Production system and thematic area	Rice-Chickpea /Natural Farming
Farmers' practices	T1- Use of chemical fertilizers and pesticides
Details of technologies selected for assessment/refinement Treatments	T2- Use of Beejamrit, Jeevamrit, Ghanjeevamrit Brahmastra, Nimastra, Amritpani, Dashparniy ark
Source of technology	Acharya Devvrit Ji
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	1
Critical input	Seed and drum
Performance indicators Observation to be recorded	Organic carbon content of soil, Fertilizer saving, Pesticide saving, Yield, Rate of produce
Cost of input	Rs. 2000
Total cost	Rs. 10000

OFT-4

Crop/Enterprise	Kodo
Title of on-farm trial	Assessment of Natural farming ingredient for kodo var. JK 48 (1st year)
Problem diagnosed	Low yield of Kodo Variety due to use of local seed
Farming situation	Rainfed
Production system and thematic area	Variety evaluation
Farmers' practices	Use of low yield variety, No seed treatment and Seed sowing by broadcasting
Details of technologies selected for assessment/refinement Treatments	Kodo Variety JK 48, duration 95-100 days, high yielding, drought tolerant.
Source of technology	Acharya Devvrit Ji JNKVV, Jabalpur, MP
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed, Beejamrit
Performance indicators Observation to be recorded	No. of tillers/plant, No. of grains/panicle, Yield
Cost of input	1000
Total cost	5000

OFT-5

Crop/Enterprise	Horticulture
Title of on-farm trial	Assessment of Makhana crop in submerged paddy field at Balaghat condition
Problem diagnosed	Low income from submerged paddy field
Farming situation	Irrigated
Production system and thematic area	Rice-Rice
Farmers' practices	T1- Sowing of rice in submerged field
Details of technologies selected for assessment/refinement Treatments	T2- Plantation of Makhana in submerged field
Source of technology	NRC Makhana, Darbhanga
No. of farmers	5
Area of each trial	0.5
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seedling/seed
Performance indicators Observation to be recorded	Comparative advantage, sale rate of seed, Paddy equivalent yield
Cost of input	Rs. 1200.00
Total cost	Rs. 6000.00

OFT-6

Crop/Enterprise	Chickpea
Title of on-farm trial	Assessment of Chickpea JG 24 under rice- chickpea cropping system
Problem diagnosed	Low yield old variety (JG-315)
Farming situation	Partially irrigated
Production system and thematic area	Rice-Chickpea cropping system
Farmers' practices	Old Variety JG 315
Details of technologies selected for assessment/refinement Treatments	Chickpea var. JG 24 Duration- 115-120 DAYS, Yield- 18-20 q/ ha. tall, suitable for mechanical harvesting, large seed size.
Source of technology	JNKVV, Jabalpur 2020
No. of farmers	5
Area of each trial	0.4 ha.
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed, biofertiliser
Performance indicators Observation to be recorded	No. of branches/plant, No. of pods/plant, Yield, Nitrogen value before and after crop production
Cost of input	4000
Total cost	20000

OFT-7

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Wheat HI 1634 under Rice-Wheat cropping system
Problem diagnosed	Low yield of Wheat due to rapid increase in temperature during February
Farming situation	Irrigated
Production system and thematic area	Rice-Wheat/ Varietal evaluation
Farmers' practices	T1 : Old variety Lok1
Details of technologies selected for assessment/refinement Treatments	T2 : Wheat var HI 1634 Duration- 105-110 days. Resistant to black and brown rust disease. Average yield - 50-55 q/ha. Recommended for late sown irrigated conditions of M.P.
Source of technology	IARI, Regional Center Indore 2020
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed, Biofertilizers
Performance indicators Observation to be recorded	No. of tillers/plant, No. of grains/penicle, Yield
Cost of input	2000
Total cost	10000

OFT-8

Crop/Enterprise	Lady's finger
Title of on-farm trial	Assessment of ITK for "Management of insects in lady's finger by spraying cow urine mixed with tobacco soaked water"
Problem diagnosed	Heavy attack of insect pest in lady's finger (Area 607 ha)
Farming situation	Irrigated
Production system and thematic area	ITK - Plant Protection
Farmers' practices	High Value and indiscriminate use of Insecticides
Details of technologies selected for assessment/refinement Treatments	Spraying of cow urine with tobacco soaked water (1 kg tobacco+5 litre cow urine+5 litre water) used 1 litre solution in 15 litre of water
Source of technology	Mishra, Anupam, Singh, S.R.K., Raut, A.A. (2020). Traditional Knowledge in Agriculture.(15)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Tobacco + cow urine
Performance indicators Observation to be recorded	No. of Insects/plant, Insecticide saving, Yield
Cost of input	300
Total cost	1500

OFT-9

Crop/Enterprise	Chickpea
Title of on-farm trial	Assessment of IDM for Collar rot in chickpea under Rice – chickpea cropping system.
Problem diagnosed	Heavy plant mortality in chickpea due to collar rot in Rice – chickpea cropping system (65000 ha)
Farming situation	Rainfed
Production system and thematic area	Crop diversification
Farmers' practices	No seed treatment and no use of fungicide & sowing of old variety (JG 315)
Details of technologies selected for assessment/refinement Treatments	Use of Tolerant var. JG 36 + Seed treatment with Trichoderma 10g/kg seed + Soil application Trichoderma 5 kg/ha, Increase seed rate by 10%
Source of technology	JNKVV, Jabalpur
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed, Trichoderma
Performance indicators Observation to be recorded	Plant mortality/sqm, No. of pods/plant, Yield
Cost of input	2500
Total cost	12500

OFT-10

Crop/Enterprise	
Title of on-farm trial	Assessment of IPM for panicle mite in Rice .
Problem diagnosed	Heavy attack of panicle mite in rice (15000ha)
Farming situation	Irrigated
Production system and thematic area	Plant Protection
Farmers' practices	Spray of Chloropyriphose50% + Cypermethrine 5%
Details of technologies selected for assessment/refinement Treatments	Spray of Profenophose 50% EC 2 ml/l + Propiconazole 25 EC 1 ml/l
Source of technology	Agriculture research station, PJTSAU, Kampasagar, Nalgonda, Telangana (2018)
No. of farmers	05
Area of each trial	0.4
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Profenophose 50% & Propiconazole 25 EC
Performance indicators Observation to be recorded	No. of healthy grains/ panicle, No. of discoloured grain/panicle, No. of discoloured sterile spikelet/ panicle, No. of normal sterile spiklet/panicle, Grain yield kg/ha
Cost of input	800
Total cost	4000

OFT-11

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of IPM module for Mustard aphid
Problem diagnosed	30-40 % loss in yield due to attack of aphid in mustard (Affected area 20000 ha.)
Farming situation	Rainfed
Production system and thematic area	IPM
Farmers' practices	T1- No use of pesticides
Details of technologies selected for assessment/refinement Treatments	T2- Neem oil 1500 ppm 1.5 ml/lit + Imidacloprid 17.8 SL 0.4 ml/lit (Two spray 40 DAS & After flowering)
Source of technology	MPAUT Udaypur 2020
No. of farmers	05
Area of each trial	0.4
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Neem oil 1500 ppm, Imidacloprid 17.8 SL
Performance indicators Observation to be recorded	No. of aphids/plants, Pods/plant, Yield/plant, Yield
Cost of input	1000
Total cost	10000

Information about Extension OFT:**OFT-1**

Crop/Enterprise	
Title of on-farm trial	Assessment of effectiveness of KISAN SARTHI for Management of Paddy Blast & Bacterial leaf blight in Rice
Season & Year	Kharif/2023
Thematic Area	ICT
Problem diagnosed	Non availability of technical knowledge in critical time
Farming situation	Rainfed/Irrigated
Farmers' practices	No use of social media for up gradation of knowledge about improved cultivation technique
Details of technologies selected for assessment/refinement Treatments	KISAN SARTHI, a quick, cheaper and faster medium for information delivery to the farming community.
No. of farmers	50
Area of each trial	-
No of trial	50
No. of animals (if animals are part of OFT)	-
Critical input	Technical message twice in a week.
Performance indicators Observation to be recorded	Knowledge level, Understanding, Need & Time based, Clarity, Applicability, Extent of utilization, Extent of dissemination
Cost of input	-
Total cost	-

OFT-2

Crop/Enterprise	
Title of on-farm trial	Assessment of effectiveness of KISAN SARTHI for Management of Stem borer in Rice
Season & Year	Kharif/2023
Thematic Area	ICT
Problem diagnosed	Non availability of technical knowledge in critical time
Farming situation	Rainfed/ Irrigation
Farmers' practices	No use of social media for up gradation of knowledge about improved cultivation technique
Details of technologies selected for assessment/refinement Treatments	KISAN SARTHI, a quick, cheaper and faster medium for information delivery to the farming community.
No. of farmers	50
Area of each trial	-
No of trial	-
No. of animals (if animals are part of OFT)	-
Critical input	Technical message twice in a week.
Performance indicators Observation to be recorded	Knowledge level, Understanding, Need & Time based, Clarity, Applicability, Extent of utilization, Extent of dissemination
Cost of input	-
Total cost	-

OFT-3

Crop/Enterprise	
Title of on-farm trial	Assessment of effectiveness of WhatsApp messages for Management of Rice Gallmidge
Season & Year	Kharif/2023
Thematic Area	ICT
Problem diagnosed	Delay and lack of visual based technical information
Farming situation	Rainfed/ Irrigation
Farmers' practices	No use of social media for upgrade of knowledge about improved cultivation technique
Details of technologies selected for assessment/refinement Treatments	WhatsApp delivers real time agricultural information & knowledge to improve farmer's decision making ability so that they are able to aware about new technology, solve field problem timely, and increase their production & productivity.
Source of technology	
No. of farmers	50
Area of each trial	-
No of trial	-
No. of animals (if animals are part of OFT)	-
Critical input	Technical message twice in a week.
Performance indicators Observation to be recorded	Knowledge level, Understanding, Need & Time based, Clarity, Applicability, Extent of utilization, Extent of dissemination
Cost of input	-
Total cost	-

OFT-4

Crop/Enterprise	
Title of on-farm trial	Assessment of knowledge & adoption of soil health card based fertilizer application
Season & Year	Kharif/2023
Thematic Area	Capacity building & Dynamics
Problem diagnosed	Problematic and poor health of soil results in high cost of cultivation and low income. Poor knowledge about SHC recommendations
Farming situation	Rainfed/ Irrigation
Farmers' practices	Use of fertilizer application without soil testing.
Details of technologies selected for assessment/refinement Treatments	- It is a tool to help the farmer to monitor and improve soil health based on recommendations and enables the farmer to use the soil and crop specific fertilizers. - It provides a qualitative assessment of soil health and reclamation measures to the problematic soil. - To optimize the integrated use of manures and fertilizers and to reduce cost of cultivation it is necessary to test the soil and issue SHC to farmer, with the ultimate objective of achieving fertile soils and healthy crops.
No. of farmers	50
Performance indicators Observation to be recorded	Knowledge level, Understanding, Need & Time based, Clarity, Applicability, Extent of utilization, Extent of dissemination
Cost of input	-
Total cost	-

Information about Home Science OFT:

Title of on-farm trial:	-
Year/Season:	-
Problem diagnosis:	-
Thematic area: (Focus area in DFI and nutri smart initiatives)	-
No of trials:	-
No. of farmers/farm women involved	-
Type of OFT (Assessment/ Refinement):	-
Details of technology selected for assessment:	
T1 – Farmers Practice-	-
T2 –Recommended Practice-	-
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	-
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demonstration	Parameters identified for performance evaluation
1	Rice	Plant protection	IDM - Seed treatment with Pseudomonas, spray of Azoxystrobin 18.2 + Difenoconazole 11.4%	Pseudomonas & Azoxystrobin 18.2 + Difenoconazole 11.4%	Kharif 2023	0.4	5	No of infected plants/sqm, No. of infected grains/panicle, Yield
2	Rice	Crop production	Production of JR 81	Seed, seed treating material	Kharif 2023	0.4	5	No of tillers / plants, No. of grains/panicle, Yield
3	Broccoli	Horticulture	Broccoli with rice straw mulching	Seed	Rabi 2023	0.2	5	Weight/curd(gm), sale rate / kg, no. weeds/sqm, yield
4	Chickpea	Agriculture Engineering	Sowing of chickpea with Zero till seed drill	Sowing with seed drill	Rabi 2023	0.4	5	No of pods, Yield, Time saving, Cost saving, Nitrogen value before and after crop production
5	Wheat	Crop production	Production of Wheat JW 3336	Seed	Rabi 2023-24	0.4	5	Effective tillers/plant, No. of grains/ear head, Yield
6	Mustard	Crop production	HYV of Mustard RH 0749	Seed	Rabi 2023-24	0.4	5	No of branches/plant, No. of pods/plant, Yield
7	Mushroom	Income generation	Oyster Mushroom	Spawn, PP bags, Bavistin, Formalin	Rabi 2023-24	-	5	Yield/bag (kg), Income/bag, Income/month
8	Pigeon pea	IPM	IPM for pigeon pea pod borer	NPV, Indoxacarb	Kharif 2023	0.4	5	No of Infected pods/plant, no. of grains/pods, yield kg/ha
9	Chickpea	IPM	IPM for chickpea pod borer	Pheromone, NPV, Indoxacarb	Rabi 2023-24	0.4	5	No of Infected pods/plant, no. of grains/pods, yield kg/ha
10	Kutki	Crop production	Production of Rice var. JR 4	Seed, seed treating material	Kharif 2023	0.4	5	No of tillers / plants, No. of grains/ear head, grain weight/ear head, Yield
11	Chilli	Plant protection	Plant protection for chilli leaf curl	Thiamethoxam 19.8%FS, Spiromesifen 22.9% SC	Rabi 2022-23	0.4	5	No. of Infected plants/running meter, Yield/plant, Yield

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	15		300
2	Farmers Training	08		200
3	Media coverage	10		mass
4	Training for extension functionaries	05		150

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demon.	Local check
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demon.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
Pulses								
1	Pigeonpea	Crop Production	Improved variety+seed treatement line sowing	Seed	Kharif/2023	20	50	No. of plant/sqm No. of branches/plant No. of pods/plant Yield
2	Chickpea	Crop Production	Improved variety+seed treatement line sowing	Seed	Rabi/2023-24	40	100	No. of plant/sqm No. of branches/plant No. of pods/plant Yield
3	Greengram	Crop Production	Improved variety+seed treatement line sowing	Seed	Summer/2023-24	20	50	No. of plant/sqm No. of branches/plant No. of pods/plant Yield
4	Blackgram	Crop Production	Improved variety+seed treatement line sowing	Seed	Summer/2023-24	20	50	No. of plant/sqm No. of branches/plant No. of pods/plant Yield
Oilseed								
1	Linseed	Crop Production	Improved variety+seed treatement line sowing	Seed	Rabi/2023-24	30	75	No. of plant/sqm No. of branches/plant No. of pods/plant Yield

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops	1	1	11	4	15	7	3	10	25
Nutrient Use Efficiency									
Soil and Water Testing	1	1	19	3	22	5	3	8	25
Total	2	2	30	7	37	12	6	18	50
IV Livestock Production and Management									
Dairy Management	1	1	19	3	22	5	3	8	25
Poultry Management	1	2	21	9	30	11	9	20	50
Disease Management									
Feed management									
Production of quality animal products									
Total	2	3	40	12	52	16	12	28	75
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	1	11	4	15	7	3	10	25
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs	1	1	11	4	15	7	3	10	25
Value addition									
Income generation activities for empowerment of rural Women	1	1	11	4	15	7	3	10	25
Location specific drudgery reduction technologies									
Women and child care									
Total	3	3	33	12	45	21	9	30	75
VI Agril. Engineering									
Training on cleaning of drip irrigation system	1	1	12	4	18	5	2	7	25
Training on repair and maintenance of Rice transplanter and reaper									
Training on safe storage									
Total	1	1	12	4	18	5	2	7	25
VII Plant Protection									
Integrated Pest Management	1	1	11	4	15	7	3	10	25
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
Total	1	1	11	4	15	7	3	10	25
VIII Fisheries									
Integrated fish farming	1	2	21	9	30	11	9	20	50
Total	1	2	21	9	30	11	9	20	50
IX Production of Inputs at site									
Vermi-compost production	1	2	15	10	25	10	15	25	50
Organic manures production									
Total	1	2	15	10	25	10	15	25	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
X Capacity Building and Group Dynamics									
Leadership development	1	1	15	3	15	8	2	10	25
Group dynamics	1	1	10	4	14	8	3	11	25
Formation and Management of SHGs	1	1	9	6	14	9	2	11	25
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
Total	3	3	34	13	43	25	7	32	75
XI Agro-forestry									
Training on new bamboo cultivation technique	1	1	10	4	14	8	3	11	25
Total	1	1	10	4	14	8	3	11	25
XII Others (Pl. Specify)									
Grand Total	15	18	207	76	277	119	64	183	425
(B) RURAL YOUTH									
Mushroom Production	2	2	21	9	30	11	9	20	50
Bee-keeping	1	1	14	2	16	8	1	9	25
Seed production	1	1	15	0	15	5	5	10	25
Planting material production	1	1	11	8	19	6	0	6	25
Vermi-culture	1	1	12	5	17	6	2	8	25
Value addition									
Sheep and goat rearing									
Para extension workers									
TOTAL	6	6	62	20	82	33	10	43	150
(C) Extension Personnel									
Productivity enhancement in field crops									
Integrated Pest Management									
Integrated Nutrient management									
Protected cultivation technology	1	2	21	9	30	11	9	20	50
Group Dynamics and farmers organization	1	2	21	9	30	11	9	20	50
Capacity building for ICT application	1	2	21	9	30	11	9	20	50
Livestock feed and fodder production	1	2	21	9	30	11	9	20	50
Production and use of organic inputs									
Gender mainstreaming through SHGs									
Any other (Pl. Specify)									
TOTAL	4	8	84	36	120	44	36	80	200

B) OFF Campus

[illegible]

low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies	1	1	11	4	15	7	3	10	25
Rural Crafts									
Women and child care	1	1	12	2	14	8	3	11	25
Total	2	2	11	6	29	15	6	21	50
VI Agril. Engineering									
Training on repair and maintenance of Rice transplanter and reaper	1	1	11	4	15	7	3	10	25
Training on safe storage	1	1	12	2	14	8	3	11	25
Total	2	2	11	6	29	15	6	21	50
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
Integrated fish farming	1	1	12	2	14	8	3	11	25
Total	1	1	12	2	14	8	3	11	25
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths	1	1	12	2	14	8	3	11	25
WTO and IPR issues	1	1	12	2	14	8	3	11	25
Total	2	2	24	4	28	16	6	22	50
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	1	2	21	9	30	11	9	20	50
Sheep and goat rearing	2	5	50	25	75	30	20	50	175
TOTAL	3	7	21	34	105	41	29	70	225
(C) Extension Personnel									
Productivity enhancement in field crops	1	2	21	9	30	11	9	20	50
Integrated Nutrient management	1	2	21	9	30	11	9	20	50
TOTAL	2	4	42	18	60	22	18	40	100

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	F &FW	Weed Management	2	22	10	32	14	4	18	50
February	F &FW	Resource Conservation Technologies	1	10	5	15	8	3	11	25
March	F &FW	Integrated Farming	1	16	2	18	6	0	6	25
September	F &FW	Water management	-	-	-	-	-	-	-	-
October	F &FW	Seed production	1	9	5	14	8	3	11	25
November	F &FW	Integrated Crop Management	2	20	14	34	12	4	16	50
Horticulture										
January	F &FW	Off-season vegetables	1	15	5	15	3	2	5	25
February	F &FW	Protective cultivation (Green Houses, Shade Net etc.)	2	44	18	62	29	9	38	50
March	F &FW	Management of young plants/orchards	1	14	5	19	5	1	6	25
September	F &FW	d) Plantation crops	1	10	3	13	9	3	12	25
October	F &FW	Production and Management technology	1	10	2	12	5	3	8	25
November		g) Medicinal and Aromatic Plants	1	8	5	13	7	5	12	25
Livestock production	F &FW	Dairy Management	1	8	5	13	9	3	12	25
January	F &FW	Household food security by kitchen gardening and nutrition gardening	2	18	8	26	15	9	24	50
February	F &FW	Design and development of low/minimum cost diet	1	8	5	13	8	4	12	25
March	F &FW	Designing and development for high	1	11	5	16	7	2	9	25

		nutrient efficiency diet								
September	F &FW	Minimization of nutrient loss in processing	1	5	5	10	8	7	15	25
October	F &FW	Gender mainstreaming through SHGs	1	14	5	19	4	2	6	25
November	F &FW	Value addition	1	15	5	20	3	2	5	25
	F &FW	Income generation activities for empowerment of rural Women	1	11	9	20	5	0	5	25
December	F &FW	Women and child care	1	19	5	24	1	0	1	25
Plant Protection										
January	F &FW	Integrated Pest Management	1	7	6	13	8	4	12	25
February	F &FW	Integrated Disease Management	1	10	6	16	7	2	9	25
March	F &FW	Bio-control of pests and diseases	1	11	5	16	9	0	9	25
September	F &FW	Production of bio control agents and bio pesticides	1	12	0	12	10	3	13	25
Production of Inputs at site	F &FW	Vermi-compost production	1	5	8	13	8	4	12	25
	F &FW	Organic manures production	1	12	4	16	7	2	9	25
Agriculture Extension (Capacity Building and Group Dynamics)										
January	F &FW	Leadership development	1	5	8	13	8	4	12	25
February	F &FW	Group dynamics	1	9	7	16	7	2	9	25
March	F &FW	Formation and Management of SHGs	1	5	5	10	8	7	15	25
September	F &FW	Mobilization of social capital	1	14	5	19	4	2	6	25
	F &FW	Entrepreneurial development of farmers/youths	1	15	5	20	3	2	5	25
Soil Science										
January	F &FW	Soil fertility management	1	17	1	18	5	2	7	25
February	F &FW	Soil and Water Conservation	1	10	5	15	8	2	10	25
March		Production and	1	8	5	13	8	4	12	25

		use of organic inputs								
September		Soil and Water Testing	1	15	2	17	8	0	8	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	F &FW	Weed Management	1	7	5	12	8	5	13	25
February	F &FW	Cropping Systems	1	9	11	20	5	0	5	25
March	F &FW	Crop Diversification	1	14	3	17	7	1	8	25
September	F &FW	Seed production	1	11	10	21	4	0	4	25
October	F &FW	Nursery management	1	5	0	5	17	3	20	25
November	F &FW	Integrated Crop Management	1	10	5	15	9	1	10	25
Horticulture										
January	F &FW	Export potential vegetables	1	10	2	12	10	3	13	25
February	F &FW	Protective cultivation (Green Houses, Shade Net etc.)	1	9	2	11	14	0	14	25
March	b) Fruits	Cultivation of Fruit	1	12	5	17	7	1	8	25
September	F &FW	Management of young plants/orchards	1	14	2	16	8	1	9	25
October	F &FW	Propagation techniques of Ornamental Plants	1	13	0	13	10	2	12	25
November		d) Plantation crops	1	10	3	13	10	2	12	25
December	F &FW	g) Medicinal and Aromatic Plants	1	6	5	11	10	4	14	25
Livestock production										
		Disease Management	1	11	2	13	12	0	12	25
Home Science										
January	F &FW	Household food security by kitchen gardening and	1	15	2	17	7	1	8	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		nutrition gardening								
February	F &FW	Design and development of low/minimum cost diet	1	3	2	5	15	5	20	25
March	F &FW	Minimization of nutrient loss in processing	1	13	2	15	6	4	10	25
September	F &FW	Gender mainstreaming through SHGs	1	10	2	12	10	3	13	25
October	F &FW	Value addition	1	10	4	14	10	1	11	25
November	F &FW	Income generation activities for empowerment of rural Women	1	3	2	5	15	5	20	25
December	F &FW	Women and child care	1	10	5	15	7	3	10	25
Plant Protection										
January	F &FW	Integrated Pest Management	2	17	5	22	17	11	28	50
February	F &FW	Integrated Disease Management	1	9	5	14	8	3	11	25
March	F &FW	Bio-control of pests and diseases	1	15	2	17	5	3	8	25
October	F &FW	Production of bio control agents and bio pesticides	1	11	5	16	8	1	9	25
November										
Agriculture Extension (Capacity Building and Group Dynamics)										
January	F &FW	Leadership development	1	8	6	14	8	3	11	25
February	F &FW	Group dynamics	1	11	2	13	7	5	12	25
March	F &FW	Entrepreneurial development of farmers/youths	1	7	2	9	14	2	16	25
Soil Science										
April	F &FW	Soil fertility management	1	15	2	17	7	1	8	25
June	F &FW	Soil and Water Conservation	1	10	4	14	10	1	11	25
September	F &FW	Production and use of organic inputs	1	14	5	19	5	1	6	25
October	F &FW	Micro nutrient deficiency in crops	1	10	7	17	7	1	8	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
November	F &FW	Nutrient Use Efficiency	1	13	2	15	6	5	10	25
December	F &FW	Soil and Water Testing	1	16	2	18	5	2	7	25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	FW	Training on solarization for nursery management	5	12	5	17	5	3	8	25
September	FW	Training on rouging seed production program	5	14	0	14	8	3	11	25
Horticulture										
August	FW	Training on vegetable seedling production	4	15	3	18	5	2	7	25
September	FW	Training on budding and grafting in fruit crops	4	12	3	15	6	4	10	25
Livestock production	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection										
October	FW	Training on Vermi-composting	5	17	2	19	5	1	6	25
November	FW	Training on production and value of Mushroom	5	13	2	15	8	2	10	25
Agriculture Extension (Capacity Building and Group Dynamics)										
		Training on agriculture extension management	5	17	2	19	5	1	6	25
Soil Science										
		Training on INM in scented rice	4	16	2	18	5	4	9	25
		Production of organic inputs	4	17	2	19	4	2	6	25

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Vermicompost producer	Training on Vermicomposting	25	FW	1	12	6	5	3	18	7	25	
4	Mushroom grower	Training on Mushroom Production	25	FW	1	12	6	5	3	18	7	25	

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	JR 81	500
	Paddy	Chinnor	300
OILSEEDS	Linseed	JLS 79	100
	Mustard	JM 30	100
PULSES	Chickpea	JG 36	100
VEGETABLES	Brinjal	Harshita	30
	Chilli	Hybrid	30
	Tomato	Arka Rakashak	30
	Onion	Hybrid	30
	Napier	Co 4	30
	Cucurbits	Hybrid	30
FLOWER CROPS	-	-	
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-	-	-
SPICES	-	-	-
VEGETABLES	Chilli	Hybrid	5000
	Tomato	Arka Rakashak	5000
	Brinjal	Harshita	10000
	Cucurbits	Hybrid	5000
	Onion	Hybrid	4000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			5000
2	NADEP			10000
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT		Sirohi	1	No.
POULTRY		Kadaknath &	100	No.
FISHERIES		Rohu, Katla, Mrigal	300	No.
Others (Specify)				

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published
Jan to Dec 2023	50	5000
Folder	10	2000 each
Bulletin	2	2000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Radio talks	Aakash wani	8
2	TV talks	Doordarshan	5
3	Newspaper coverage	Local News Paper	20
4	Internet (Youtube)	-	20
	Social media (Whats App, Facebook, Instagram, Twitter etc.)	-	6

Success stories/Case studies identified for development as a case: 10 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, line dept. and interface
2	Rural Youth	PRA and interface
3	In-service personnel	AES and line dept.
4	methodology for identifying OFTs/FLDs	PRA and interface
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

Sr. No.	Name of Village	Block	Distance of village from KVK	Activities planned
1.	Botte	Lalbarra	49	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
2.	Koste	Kirnapur	3	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
3.	Bagadmara	Kirnapur	13	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
4.	Awlajhari	Balaghat	42	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
5.	Lanji	Lanji	35	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
6.	Karanja	Lanji	45	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
7.	Lohara	Lalbarra	63	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
8.	Binora	Kirnapur	20	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
9.	Choundhatola	Lanji	25	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
10.	Singodi	Katangi	90	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
11.	Hirapur	Balaghat	43	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
12.	Mohgaon	Paraswada	65	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
13.	Badgaon	Kirnapur	0	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
14.	Katangi	Kirnapur	8	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
15.	Aamgaon	Balaghat	85	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
16.	Bisapur	Katangi	78	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
17.	Tavejhari	Balaghat	40	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
18.	Devgaon	Kirnapur	8	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
19.	Kaweli	Paraswada	75	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
20.	Kulpa	Paraswada	80	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 28/11/1991

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	22	-
Water Samples	-	-	-	-
Total	500	500	22	-

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
Department of Agriculture	Technological support, Trainings, Scientist farmer's interface, kisan mela.
Department of Horticulture	Technological support, Trainings, Scientist farmer's interface, kisan mela.

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
ATMA, NFSM	Trainings, scientist farmers interface, Kisan Mela, CFLD etc.

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details		Targeted Beneficiaries	Targeted Area/Coverage
	Natural farming	Agri Drone		
January	Awareness camp	Awareness camp,	40	-
February	Trainings	Demonstration	20	20 Demo (Agri Drone)
March	Awareness	Awareness camp	5	15 ha(Seed hub)
April	Field day	Awareness camp	50	-
May	Awareness	Awareness camp	50	-
June	Demonstration	Demonstration	20	20 Demo (Agri Drone)
July	Trainings	Demonstration	5	10 ha(Seed hub)
August	Trainings	Demonstration	30	30 Demo (Agri Drone)
September	Trainings	Awareness camp	50	-
October	Demonstration	Demonstration	5	50 ha(Seed hub)
November	Trainings, Awareness	Demonstration	40	40 Demo (Agri Drone)
December	Trainings	Demonstration	40	40 Demo (Agri Drone)

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 110 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Linseed	Rabi	JLS 67, JLS 66	Oilseed	20
Chickpea	Rabi	JG 36, JG 14	Pulses	30
Mustard	Rabi	Giriraj, Pusa Mustard 25	Oilseed	20
Kodo	Kharif	JK 137	Minor millet	10
Pigeonpea	Kharif	BDN-716, Rajeshwari	Pulses	50

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sqm)	Output /Production
Natural farming Kharif 2023	Brinjal	200	20 kg
	Ginger	500	50kg
	Kodo	500	50 kg
	Kutki	500	50 kg
Natural farming Rabi 2023-24	Chickpea	500	50 kg
	Linseed	500	50 kg
	Chilly	500	50 kg
	Mustard	500	50 kg
	Potato	500	50kg

KVK BETUL

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 564.65

S. No.	Item	Area (ha)
1	Under Buildings	550
2	Under Demonstration Units	0.4
3	Under Crops	13.5
4	Orchard/Agro-forestry	0.25
5	Others (specify)	0.5 (All Demo Units)
Total		564.65

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2007	550	-	2006	550	Completed
2	Farmers Hostel	ICAR	2007	350	-	-	350	Completed
3	Staff Quarters (6)	ICAR	2008	-	-	2007	-	Completed
4	Demonstration Units (2)	ICAR	2018	-	-	2018	-	Completed
5	Fencing	NA	NA	NA	NA	NA	NA	NA
6	Rain Water harvesting system	NA	NA	NA	NA	NA	NA	NA
7	Threshing floor	NA	NA	NA	NA	NA	NA	NA
8	Farm godown	NA	NA	NA	NA	NA	NA	NA

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Marshal	-	-	-	-
Motor Cycle (Pulsar)	2005	-	-	Ongoing
Bolero (Bolero)	2004	-	-	Ongoing
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2004	-	Ongoing
Xerox Machine	2009	-	Ongoing
Generator	2004	-	Ongoing
Video Camera	2005	-	Ongoing
Computer, Laser Printer	2004	-	Ongoing
UPS 600 VA	2004	-	Ongoing
Stabilizer 2 KVA	-	-	-
Stabilizer	2004	-	Ongoing
Inverter 600 VA (2)	2003	-	Ongoing
Inverter Battery (2)	2003	-	Ongoing

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	Pre Kharif 2023
2	Pre Rabi 2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
KVK Betul	Satpura Plateau	10	556	13,45,175	62%	5,44,118	2,24,916	1.8 ha

Land Use Pattern

Particulars	Area “000 ha”
Geographical Area(ha)	1007800
Total Cultivated Area(ha)	453000
Total Irrigated Area(ha)	328000
Gross cropped area(ha)	778750
Kharif(ha)	413700
Rabi (ha)	339200
Summer(ha)	25850
Agricultural waste land	29200
Cropping Intensity	172%

Irrigated Area with Different Sources:

S. No.	Description	Area (000 ha)
1	Canal	97.398
2	Well	142.492
3	Tube well	90.507
4	Others Rivers, Ponds etc.	43.66
Total		374.057

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Black cotton Soil	Heavy soil with high water holding capacity	67.95
2	Laom Soil	It has a balance of all plants nutrient	181.20
3	Sandy loam	Is very useful for famers and gardeners	144.96
4	Sandy Soil	These soils have quick water drainage	58.89
	Total		

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (000mt)	Productivity (Q /ha)
1	Soybean	2,01,500.0	99.071	4.89
2	Maize	1,50,540.0	400.98	28.48
3	Paddy	32,700.0	107.910	33.000
4	Wheat	2,75,500.0	1005.860	38.00
5	Gram	56,400.0	79.500	15.00
6	Sugarcane	19,900.0	122.400	7200

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	-	-	-
Feb, 22	-	-	-
Mar, 22	-	-	-
Apr, 22	-	-	-
May, 22	-	-	-
Jun, 22	202.5	46	23
July, 2022	635	35	22
Aug., 2022	467.5	35	23
Sept., 2022	337.5	33	22
Oct. 2022	52.5	35	15
Nov. 2022	-	31	22
Dec. 2022	-	28	20

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle	296078	361.47 Th.MT.	6.10 kg
Buffalo	157406	-	-
<i>Crossbred/ Indigenous</i>	-	-	-
Sheep	2360	1.24Th Wool	0.525 kg
<i>Crossbred/ Indigenous</i>	-	-	-
Goats	233219	1.21 Mt.	16 kg
Pigs <i>Crossbred/ Indigenous</i>	3454	-	-
Rabbits	413	-	-
Poultry	525215	-	-
Hens	148060	350.82 lakh eggs	160 eggs/bird/yr
Turkey and others	8222	-	-

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Betul	10	Betulbazar	Soybean, Maize, Chickpea, Wheat, Sugarcane, Arhar,	Below	Below
			Yenkheda			
			Urdan			

Priority / Thrust areas

KVK Name	THRUST AREA
KVK Betul	➤ Integrated Crop Management ❖ Varietal replacement ❖ Integrated nutrient management ❖ Integrated pest management ❖ Integrate disease management ❖ Diversification
	➤ Natural Resource Management ❖ Soil health management ❖ Soil moisture conservation ❖ Seed Conservation ❖ Utilization of resources
	➤ Women in Agriculture ❖ Drudgery reduction ❖ Mal-nutrition reduction ❖ Income generation
	➤ Live-stock Production Management ❖ Ecto-parasite, De-worming ❖ Animal nutrition and Feed management ❖ Poultry production
	➤ Income Generation Activities ❖ Mushroom Cultivation ❖ Seed production ❖ Mix farming
	➤ Farm Mechanization ➤ Small Farm implements ➤ Resource conservation Technology ➤ Post-Harvest Management ➤ Storage loss minimization Technology

TECHNICAL PROGRAMME
A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
20	100	8 FLD+ 2 CFLD	40+125

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
100	2500	363	6500

Seed Production (Qtl.)	Planting material (Nos.)
390+1000	54500.00

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting material etc.
	KVK Betul	Sorghum	Shoot fly and stem borer are major pest in sorghum, causes yield loss.	Assessment of sowing time in sorghum, against shoot fly & stem borer	Demonstration of improved Variety of Soybean JS 20-116	Integrated Pest Management Integrated Disease Management	Integrated Pest Management	Field Days Kisan Mela Awareness programmes	- -
	KVK Betul	Maize	FAW is a major pest in maize causing severe loss	Assessment of <i>Beauveria bassiana</i> against FAW (<i>S. frugiperda</i>) in Maize	Demonstration of <i>Trichoderma viride</i> in Soybean	Production of bio control agents and bio pesticides	-	Kisan Gosthi/ Farmers Meeting	-
	KVK Betul	Tomato	Low yield due to imbalance use of fertilizer caused cracking in fruits	Assessment of integrated nutrient management in Tomato.	-	Off-season vegetables Protective	Productivity enhancement in field crops	Diagnostic Visit to farmers Fields	-
	KVK Betul	Turmeric and Ginger	Low yield due to improper intercropping and poor management in orchard	Assessment of shade loving crops in established orchard as inter crop	-	cultivation (Green Houses, Shade Net etc.) Management of young plants/orchards) Plantation crops Production and Management technology) Medicinal and Aromatic Plants Dairy Management	-	Farmers Visit to KVK Exhibitions Film Shows Radio Programmes TV talks Newspaper Coverage Scientist visit to farmers field	-
	KVK Betul	Sorghum	Chemical farming is not eco-friendly and costly	Assessment of Natural farming components against Organic and chemical input in Sorghum	-	Weed Management Cropping Systems Crop Diversification	Integrated Nutrient management		-
	KVK Betul	Bajra	The Nutritional quality of grain and fodder of maize is poorer than pearl millet	Introduction of Pearl millet	Demonstration on Nutritional		Production and use of		-

					Kitchen garden	Seed production Nursery management Integrated Crop Management	organic inputs		
	KVK Betul	Kodo	Low yield due to old varieties and traditional sowing method	Assessment of Kodo variety JK 137 under different sowing method	-	Soil fertility management Soil and Water	Group Dynamics and farmers organization		-
	KVK Betul	Kutki	Low yield due to old varieties and traditional sowing method	Assessment of Kutki variety JK-4 under different sowing method	-	Conservation Production and use of organic inputs Soil and Water Testing Leadership development Group dynamics Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths			-

Rabi 2023-24									
	KVK Betul	Mustard	Sucking pest causes severe loss in mustard yield	Assessment of IPM module to manage Aphid (<i>Myzus persicae</i>) in mustard	Demonstration of <i>Beauveria bassiana</i> in Chickpea	Integrated Pest Management Integrated	-	Field Days Kisan Mela	-
	KVK Betul	Linseed	Collar rot and wilt are major constraint in linseed it reduces yield	Assessment of <i>Trichoderma viride</i> against soil born diseases (collar rot, wilt in linseed)	Demonstration of Seed treatment in chickpea	Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticide	-	Awareness programmes Kisan Gosthi/ Farmers Meeting Diagnostic Visit to	-

						es		farmers Fields	
	KVK Betul	Onion	Low yield of onion in rabi season due to use of improper variety and poor nutrient management practices	Assessment of INM in onion variety Bhimaskhakti	-	Off-season vegetables Protective cultivation (Green Houses, Shade Net etc.) Management of young plants/orchards Plantation crops Production and Management technology Medicinal and Aromatic Plants Dairy Management	Productivity enhancement in field crops	Farmers Visit to KVK	-
	KVK Betul	Potato	Unavailability of antioxidant variety of potato in human diet.	Introduction of Bio fortified variety of Potato Kufri Neelkanth	-		-	Exhibitions Film Shows Radio Programmes TV talks Newspaper Coverage Scientist visit to farmers field	-
	KVK Betul	Wheat	Chemical farming is neither eco-friendly nor cost effective	Assessment of natural farming components against organic and chemical farming in Wheat	Demonstration of Improved variety of Wheat HD 8759	Weed Management Cropping Systems Crop Diversification	-		-
	KVK Betul	Mustard	Low yield due to improper method of sowing	Assessment of SMI Method in mustard against line sowing	-	Seed production Nursery management Integrated Crop Management	-		-
	KVK Betul	Linseed	Low yield due to old varieties and traditional sowing method	Assessment of Linseed variety JLS-73 under different spacing	-	Soil fertility management Soil and Water Conservation	Capacity building for ICT application		-
	KVK Betul	Lentil	Yield loss due to frost.	Assessment of Lentil variety L 4717 under different sowing date	-	Production and use of organic inputs Soil and Water	-		-

						Testing Leaders hip develop ment Group dynami cs Formati on and Manage ment of SHGs Mobiliz ation of social capital Entrepr eneurial develop ment of farmers/ youths			
Home Science 2023-24									-
	KVK Betul	Puffed products of millets	Iron deficiency in adolescent girls	Assessment of Sorghum puff to overcome anaemia in adolescent girls	- Demonstratio n on Nutritional Kitchen garden	Househ old food security by kitchen gardeni ng and nutritio n	Gender mainstre aming through SHGs		-
	KVK Betul	Aonla processing	Lower income	Assessment of income generation through Aonla processing in Candy		gardeni ng and nutritio n	-		-
	KVK Betul	Value addition and processing	Low level of Blood calcium (Ca) and haemoglobin (Hb)in girls	Study on effect of drumstick leaves powder (DLP) on Blood calcium (Ca) and haemoglobin (Hb) level of girls		gardeni ng Design and develop ment of	-		-
	KVK Betul	Vermicompo st Production	Income generation	Assessment of income generation through vermicompost production		low/min imum cost diet Minimi zation of nutrient loss in processi ng Gender mainstr eamng through SHGs Value addition Income generati on activitie s for empowe rment of rural Women Women and child care	-		-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Plant Protection	1	2	1	-	-	-	-	-	-	4
INM	-	-	-	-	4	-	-	-	-	4
Crop production	2	1	-	-	-	-	-	-	-	3
Natural farming	1	-	-	-	-	-	-	-	-	1
Variety evaluation	2	1	1	-	-	-	-	-	-	4
Nutritional security	1	-	-	-	-	-	-	-	-	1
Income generation	-	-	-	1		1				2
Value addition and processing	-	-	-	-	-	-	-	1	-	1
TOTAL	7	4	2	1	4	1	-	1		20

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL								

Detailed Information about OFT:

Kharif 2023

Name of Discipline	Plant Protection
Title of on-farm trial: 1	Assessment of sowing time in sorghum, against shoot fly & stem borer
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Shoot fly and stem borer are major pest in sorghum, causes yield loss.
Thematic area:	Plant Protection
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing one week after monsoon
T2 –Recommended Practice-	Dry sowing of crop (one week before on set of monsoon)
T3- Recommended Practice-	Sowing after one week of monsoon with 10% extra seed rate, eradication of infested plants.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV 2010
Characteristics of technology:	Dry sowing of Sorghum , can minimize the pest without any pest
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
% of Infected plant shoot fly	No /5sqm			
% of stem borer	No./5sqm			
Grain Yield	q/ha			

Name of Discipline	Plant Protection
Title of on-farm trial: 2	Assessment of <i>Beauveria bassiana</i> against FAW (<i>S. frugiperda</i>) in Maize
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	FAW is a major pest in maize causing severe loss
Thematic area:	Plant Protection
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Chemical treatment (Ememectin benzolate) at outbreak of pest
T2 –Recommended Practice-	Application of <i>Beauveria bassiana</i> at 30 DAE @ 1 lit./ha
T3- Recommended Practice-	Application of <i>Beauveria bassiana</i> at 30 & 45 DAE @ 1 lit./ha
Date of sowing:	June 2023
Date of harvesting:	Oct. 2023
Source of technology:	JNKVV 2019
Characteristics of technology:	<i>Beauveria bassiana</i> in eco friendly, cost effective bio agent for the pest
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pest population	Infected plant /5sqm			
No. of dead heart	No./5sqm			
Grain Yield	q/ha			
C:B ratio	-			

Name of Discipline	Horticulture
Title of on-farm trial: 3 (2nd Year)	Assessment of integrated nutrient management in Tomato.
Year/Season:	Kharif/2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer caused cracking in fruits
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalanced use of fertilizer
T2 –Recommended Practice-	RDF(100:80:100) on STV based
T3- Recommended Practice-	T2+use of boron 5 kg/ha as basal
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR 2016
Characteristics of technology:	STV based RDF + boron will enhance the yield and reduces the fruit cracking
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of fruit/Plants	No./plant			
No. of cracked fruits/plant	No./plant			
Yield	q/ha			
C:B ratio	-			

Name of Discipline	Horticulture
Title of on-farm trial: 4 (2nd Year)	Assessment of shade loving crops in established orchard as inter crop
Year/Season:	Kharif/2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to improper intercropping and poor management in orchard
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Inter crop with wheat
T2 –Recommended Practice-	Use of Turmeric on raised bed +RDF
T3- Recommended Practice-	Use of Ginger on raised bed+ RDF
Date of sowing:	
Date of harvesting:	
Source of technology:	IMAU 2017
Characteristics of technology:	Intercropping Ginger and turmeric in orchard will increase the income.
Name of Crop/Enterprises:	Turmeric and Ginger
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Yield of inter crop	q/ha			
Yield of orchard	q/ha			
C:B ratio	-.			

Name of Discipline	Agronomy
Title of on-farm trial: 5 (1st Year)	Assessment of Natural farming components against Organic and chemical input in Sorghum
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Chemical farming is not eco-friendly and costly
Thematic area:	Natural farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Seed treatment with chemical and fertilizer
T2 –Recommended Practice-	Seed treatment and soil treatment with Azospillum and PSB culture
T3- Recommended Practice-	Seed treatment with Beejamrut, Nutrient management with Ghanjeevamrut and Jeevamrut at the interval of 10,20,30 and 40 DAS with mulch and wapsa
Date of sowing:	June 2023
Date of harvesting:	Oct. 2023
Source of technology:	RVSKVV, Gwalior 2022
Characteristics of technology:	Natural farming components will improve the quality and yield of produce.
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
1000 seed weight	gm			
Yield	q/ha			
C:B ratio	-			
Pre and post Soil analysis	NPK+Organic carbon			

Name of Discipline	Agronomy
Title of on-farm trial: 6 (1st Year)	Introduction of Pearl millet
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	The Nutritional quality of grain and fodder of maize is poorer than pearl millet
Thematic area:	Crop production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing of Maize by farmers
T2 –Recommended Practice-	Sowing of Bajra improve variety JBV-1
T3- Recommended Practice-	Sowing of Hybrid Bajra.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIMR 2016
Characteristics of technology:	The Bajra crop is rich source of Iron.
Name of Crop/Enterprises:	Bajra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Iron content	mg/100 g			
Grain Yield	q/ha			
Stover Yield	q/ha			
C:B ratio	-			

Name of Discipline	Plant Breeding
Title of on-farm trial: 7 (2nd Year)	Assessment of Kodo variety JK 137 under different sowing method
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old varieties and traditional sowing method
Thematic area:	Plant Breeding
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting method
T2 –Recommended Practice-	JK 137 variety with 30 cm line sowing
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2008
Characteristics of technology:	Bold seeded, insect resistant, profuse tillering and high yield variety
Name of Crop/Enterprises:	Kodo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of tiller/Plant	No.			
Length of earhead	cm			
Yield	ha			

Name of Discipline	Plant Breeding
Title of on-farm trial: 8 (2nd Year)	Assessment of Kutki variety JK-4 under different sowing method
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old varieties and traditional sowing method
Thematic area:	Variety evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old variety with broadcasting
T2 –Recommended Practice-	Kutki variety JK -4 with line sowing at 30 cm
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2015
Characteristics of technology:	Maximum tillering, long earhead, insect and pest free.
Name of Crop/Enterprises:	Kutki
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of Tillers/Plant	No.			
Length of panicle /plant	No.			
Yield	q/ha			

Rabi-2023-24

Name of Discipline	Plant Protection
Title of on-farm trial: 9 (2nd Year)	Assessment of IPM module to manage Aphid (<i>Myzus persicac</i>) in mustard
Year/Season:	Rabi/2023-24
Farming situation:	Semi-irrigated
Problem diagnosis:	Sucking pest causes severe loss in mustard yield
Thematic area:	Plant Protection
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Imidachlorprid (250ml/ha)
T2 –Recommended Practice-	Application of <i>Verticillium lecenii</i> at 55 and 75 DAE
T3- Recommended Practice-	T2+intercropping with chickpea (8:2)
Date of sowing:	Oct. 2023
Date of harvesting:	Feb 2024
Source of technology:	DRMR-2016
Characteristics of technology:	Verticillium lecenii is a eco friendly cost effective technology
Name of Crop/Enterprises:	
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of capsule/Plant	No.			
Test weight of grain	gm			
Yield	q/ha			

Name of Discipline	Plant Protection
Title of on-farm trial: 10 (2nd Year)	Assessment of <i>Trichoderma viride</i> against soil born diseases (collar rot, wilt in linseed)
Year/Season:	Rabi/2023-24
Farming situation:	Rainfed
Problem diagnosis:	Collar rot and wilt are major constraint in linseed it reduces yield
Thematic area:	Plant protection
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Seed treatment (Carbandazim 2gm/kg seed)
T2 –Recommended Practice-	Seed treatment (Pyroclostrobin + Thiophenete methyl 2ml/kg seed)
T3- Recommended Practice-	T2+Soil application of <i>T.viride</i> @ 2.5 kg/ha at sowing time
Date of sowing:	Oct. 2023
Date of harvesting:	Feb 2024
Source of technology:	JNKVV
Characteristics of technology:	Seed treatment with Pyroclostrobin + Thiophenete methyl and soil application of <i>Trichoderma viride</i>
Name of Crop/Enterprises:	Linseed
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of infected plants with collar rot	No.			
No. of wilted plant	Nos.			
Grain Yield	q/ha			

Name of Discipline	Horticulture
Title of on-farm trial: 11 (2nd Year)	Assessment of INM in onion variety Bhimaskhakti
Year/Season:	Rabi/2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of onion in rabi season due to use of improper variety and poor nutrient management practices
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Old variety AFLR and imbalance use of fertilizer
T2 –Recommended Practice-	Use of Bhimaskhati + STV based NPK
T3- Recommended Practice-	T2+ Mulching with paddy straw
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DOGR 2011
Characteristics of technology:	Red colour, round variety having good storage capacity.
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Average bulb wt.	gm			
Yield	q/ha			
C:B ratio				

Name of Discipline	Horticulture
Title of on-farm trial: 12 (2nd Year)	Introduction of Bio fortified variety of Potato Kufri Neelkanth
Year/Season:	Rabi/2023-24
Farming situation:	Irrigated
Problem diagnosis:	Unavailability of antioxidant variety of potato in human diet.
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Kufri Chandramukhi
T2 –Recommended Practice-	Kufri Chandramukhi + STV based NPK
T3- Recommended Practice-	T2+ live mulching through Fenugreek.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CPRI, Shimla 2021
Characteristics of technology:	Antioxidant 100 Mu/100 g fresh weight. Carotenoids 200mu /100 g fresh weight.
Name of Crop/Enterprises:	Potato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Tuber/Plants	Kg/plants			
Yield	q/ha			
B:C ratio	-			

Name of Discipline	Agronomy
Title of on-farm trial: 13	Assessment of natural farming components against organic and chemical farming in Wheat
Year/Season:	Rabi/2023-24
Farming situation:	Rainfed (Soybean- wheat)
Problem diagnosis:	Chemical farming is neither eco-friendly nor cost effective
Thematic area:	Crop Production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Seed treatment with chemical and fertilizer
T2 –Recommended Practice-	Seed treatment and soil treatment with Azotobacter, PSB, KSB and ZSB culture
T3- Recommended Practice-	Seed treatment with Beejamrut, Nutrient management with Ghanjeevamrut and Jeevamrut at the interval of 15,30,45 and 60 DAS with mulch and wapsa
Date of sowing:	Nov 2023
Date of harvesting:	March 2024
Source of technology:	RVSKVV Gwalior 2022
Characteristics of technology:	Natural farming components are eco-friendly and cost effective
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
1000 seed weight	gm			
Grain yield	q/ha			
C:B ratio	-			
Pre and post Soil analysis	NPK+ Organic carbon			

Name of Discipline	Agronomy
Title of on-farm trial: 14 (2nd Year)	Assessment of SMI Method in mustard against line sowing
Year/Season:	Rabi/2023-24
Farming situation:	Semi- Irrigated
Problem diagnosis:	Low yield due to improper method of sowing
Thematic area:	Crop production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting
T2 –Recommended Practice-	Line sowing with spacing of 45 cm
T3- Recommended Practice-	SMI at spacing of 90 cm with live mulching of leafy vegetables.
Date of sowing:	Oct.2023
Date of harvesting:	Feb 2024
Source of technology:	IARI, New Dehli 2020
Characteristics of technology:	The technology will minimize seed rate and production cost
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of siliqua /Plants	No.			
Yield	q/ha			
C:B ratio	-			

Name of Discipline	Plant Breeding
Title of on-farm trial: 15 (2nd Year)	Assessment of Linseed variety JLS-73 under different spacing
Year/Season:	Rabi/2023-24
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old varieties and traditional sowing method
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting of Linseed
T2 –Recommended Practice-	Linseed variety JLS-73 with 30 cm spacing
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2010
Characteristics of technology:	High oil content, maturity 115-120 days, profuse capsule & yield
Name of Crop/Enterprises:	Linseed
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of capsule/Plant	No.			
No. of branches/plant	Nos.			
Yield	q/ha			

Name of Discipline	Plant Breeding
Title of on-farm trial: 16 (2nd Year)	Assessment of Lentil variety L 4717 under different sowing date
Year/Season:	Rabi/2023-24
Farming situation:	Rainfed
Problem diagnosis:	Yield loss due to frost.
Thematic area:	Plant Breeding
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing at third week of November.
T2 –Recommended Practice-	Sowing of lentil variety L 4717 at first week of October.
T3- Recommended Practice-	Sowing of lentil variety L 4717 at Third week of October.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IARI, New Delhi 2018
Characteristics of technology:	Moderately resistant to wilt, Maturity in 100-105 days, yield potential 12-15 q/ha
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
No. of pod/Plant	No.			
No. of wilted plants/sqm	Nos.			
Yield	q/ha			

Information about Extension OFT: Nil

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Name of Discipline	Food Science
Title of on-farm trial: 17	Assessment of Sorghum puff to overcome anaemia in adolescent girls
Year/Season:	2023 / Whole Year
Problem diagnosis:	Iron deficiency in adolescent girls
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Regular Diet
T2 –Recommended Practice-	Incorporation of 50gm sorghum puff with regular diet for 30 days
Source of technology:	JNKVV, 2017
Characteristics of technology:	Milletts are rich source of minerals
Name of Crop/Enterprises:	Puffed products of millets
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

(A) Economic Performance Home Science OFT: (For Nutritional security

Detail of Technology	Name of Product/enterprise	Per capita Consumption gm/ day	Nutrient Intake (Unit)				Anthropometric measurements		
			Energy (kcal)	Protein (gm)	Iron (mg)	Calcium (mg)	Increase in Weight (Kg)	Increase in Height (cm)	BMI ((Weight (Kg)/ (Height(in m) * Height(in m)))
T ₁ (Farmers Practices)	Regular Diet								
T ₂ (Recommended)	Incorporation of sorghum puff with regular diet for 30 days	50 gm/day							

Name of Discipline	Food Science
Title of on-farm trial: 18	Assessment of income generation through Aonla processing in Candy
Year/Season:	2023 / Whole Year
Problem diagnosis:	Lower income
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Raw selling of Aonla
T2 –Recommended Practice-	Aonla candy preparation and selling
Source of technology:	TNAU 2020
Characteristics of technology:	Aonla processed into Candy sell
Name of Crop/Enterprises:	Aonla processing
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	Farmer feedback

(B) Economic Performance Home Science OFT: (For Income Generation) Enterprises wise

Name of Enterprise : -.....

Detail of Technology	Parameter of enterprise	Production per unit (qt/no/lit)	Average Cost of input (Rs/unit)	Average Gross Return (Rs/unit)	Average Net Return (Rs/unit)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T₁(Farmers Practices)	Raw Aonla selling					
T₂ (Recommended Practices)	Aonla products preparation and selling					

Name of Discipline	Food Science
Title of on-farm trial: 19	Study on effect of drumstick leaves powder (DLP) on Blood calcium (Ca) and haemoglobin (Hb) level of girls
Year/Season:	2023 / Whole Year
Problem diagnosis:	Low level of Blood calcium (Ca) and haemoglobin (Hb)in girls
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Consumption of Regular diet
T2 –Recommended Practice-	T1 + Consumption of Drumstick leaves powder 2 gm/day for 30 days
Source of technology:	CFTRI Mysore
Characteristics of technology:	Drumstick leaves powder is rich source of Calcium and Iron
Name of Crop/Enterprises:	Value addition and processing
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	Farmer feedback

(C) Economic Performance Home Science OFT: (For value addition)

Detail of Technology	Name of Product/enterprise	Per capita Consumption gm/day	Nutrient Intake (Unit)				Anthropometric measurements		
			Energy (kcal)	Protein (gm)	Iron (mg)	Calcium (mg)	Increase in Weight (Kg)	Increase in Height (cm)	BMI ((Weight (Kg)/ (Height(in m) * Height(in m))))
T ₁ (Farmers Practices)	Consumption of Regular diet								
T ₂ (Recommended)	Consumption of Regular diet including DLP 2 gm/day for 30 days								

Name of Discipline	Food Science
Title of on-farm trial: 20	Assessment of income generation through vermicompost production
Year/Season:	2023 / Whole Year
Problem diagnosis:	Lower income
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Selling of Cow dung cake
T2 –Recommended Practice-	Production and selling of Vermicompost
Source of technology:	JNKVV, 2017
Characteristics of technology:	Preparation of Vermicompost
Name of Crop/Enterprises:	Vermicompost Production
Farming situation:	Respondent having 2 animals is selected for control and study.
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	Farmer feedback

(D) Economic Performance Home Science OFT: (For Nutritional security)

Name of Enterprise /product: -.....

Detail of Technology	Name of Product/enterprise	Per capita Consumption gm/day	Nutrient Intake (Unit)				Anthropometric measurements		
			Energy (kcal)	Protein (gm)	Iron (mg)	Calcium (mg)	Increase in Weight (Kg)	Increase in Height (cm)	BMI ((Weight (Kg)/ (Height(in m) * Height(in m))))
T₁(Farmers Practices)	Cow dung cake selling	-							
T₂ (Recommended Practices)	Vermicompost Production and selling	-							

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	Varital Valuation	Demonstration of improved Variety of Soybean JS 20-98	-	2023	2.0	5	-
2	Soybean	Varital Valuation	Demonstration of <i>Trichoderma viride</i> in Soybean	-	2023	2.0	5	-
3	Soybean	Varital Valuation	Demonstration of <i>Beauvaria bassiana</i> in Soybean	-	2023	2.0	5	-
4	Soybean	Varital Valuation Kharif (CFLD)	R & F, BBF,IPM	-	2023	20.0	50	-
5	Wheat	Plant Protection	Demonstration of Improved variety of Whea HD 8759	-	2023-24	2.0	5	-
6	Chickpea	Plant Protection	Demonstration of <i>Beauvaria bassiana</i> in Chickpea	-	2023-24	2.0	5	-
7	Chickpea	Plant Protection	Demonstration of Seed treatment in chickpea	-	2023-24	2.0	5	-
8	Chickpea	Crop production	(CFLD) R & F, BBF,IPM	-	2023-24	30.0	75.0	-
9	Nutritional Kitchen garden	All crops	Demonstration on Nutritional Kitchen garden	-	2023-24	2.0	5	-

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	October 2023	75
2	Farmers Training	3	November 2023	100
3	Media coverage	2	-	MASS
4	Training for extension functionaries	-	-	-

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Varital Valuation Kharif (CFLD)	(CFLD) R & F, BBF,IPM	Seed	2023	20.0	50	Yield, B:C ratio, Pest and disease incidence
2	Chickpea	Crop production	(CFLD) R & F, BBF,IPM	Seed	2023-24	30.0	75	Yield, B:C ratio, Pest and disease incidence

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	October 2023	75
2	Farmers Training	3	November 2023	100
3	Media coverage	2	-	MASS
4	Training for extension functionaries	-	-	-

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	2	22	10	32	14	4	18	50
Resource Conservation Technologies	1	1	10	5	15	8	3	11	25
Integrated Farming	1	1	16	2	18	6	0	6	25
Water management	-	-	-	-	-	-	-	-	-
Seed production	1	1	9	5	14	8	3	11	25
Integrated Crop Management	2	2	20	14	34	12	4	16	50
Total	7	7	77	36	113	48	14	62	175
0									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1	15	5	15	3	2	5	25
Protective cultivation (Green Houses, Shade Net etc.)	2	2	44	18	62	29	9	38	50
Total	3	3	59	23	77	32	11	43	75
b) Fruits									
Management of young plants/orchards	1	1	14	5	19	5	1	6	25
Total	1	1	14	5	19	5	1	6	25
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	1	1	10	3	13	9	3	12	25
Total	1	1	10	3	13	9	3	12	25
e) Tuber crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
f) Spices									
Production and Management technology	1	1	10	2	12	5	3	8	25
Total	1	1	10	2	12	5	3	8	25
g) Medicinal and Aromatic Plants								1	1
Production and management technology	1	1	8	5	13	7	5	12	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	1	1	8	5	13	7	5	12	25
Grand total (Horticulture)	7	7	93	38	121	58	23	81	175
III Soil Health and Fertility Management									
Soil fertility management	1	1	17	1	18	5	2	7	25
Soil and Water Conservation	1	1	10	5	15	8	2	10	25
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	1	8	5	13	8	4	12	25
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	1	1	15	2	17	8	0	8	25
Total	4	4	10	5	32	29	2	10	100
IV Livestock Production and Management									
Dairy Management	1	1	8	5	13	9	3	12	25
Poultry Management	-	-							
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	1	1	8	5	13	9	3	12	25
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	2	18	8	26	15	9	24	50
Design and development of low/minimum cost diet	1	1	8	5	13	8	4	12	25
Designing and development for high nutrient efficiency diet	1	1	11	5	16	7	2	9	25
Minimization of nutrient loss in processing	1	1	5	5	10	8	7	15	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Gender mainstreaming through SHGs	1	1	14	5	19	4	2	6	25
Value addition	1	1	15	5	20	3	2	5	25
Income generation activities for empowerment of rural Women	1	1	11	9	20	5	0	5	25
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Women and child care	1	1	19	5	24	1	0	1	25
Total	9	9	101	47	148	51	26	77	225
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	1	1	7	6	13	8	4	12	25
Integrated Disease Management	1	1	10	6	16	7	2	9	25
Bio-control of pests and diseases	1	1	11	5	16	9	0	9	25
Production of bio control agents and bio pesticides	1	1	12	0	12	10	3	13	25
Total	4	4	40	17	57	34	9	43	100
VIII Fisheries									
Integrated fish farming	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site									
Vermi-compost production	1	1	5	8	13	8	4	12	25
Organic manures production	1	1	12	4	16	7	2	9	25
Total	2	2	17	12	29	15	6	21	50
X Capacity Building and Group Dynamics									
Leadership development	1	1	5	8	13	8	4	12	25
Group dynamics	1	1	9	7	16	7	2	9	25
Formation and Management	1	1	5	5	10	8	7	15	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	4	4	42	27	69	27	3	30	100

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1	7	5	12	8	5	13	25
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Cropping Systems	1	1	9	11	20	5	0	5	25
Crop Diversification	1	1	14	3	17	7	1	8	25
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	1	1	11	10	21	4	0	4	25
Nursery management	1	1	5	0	5	17	3	20	25
Integrated Crop Management	1	1	10	5	15	9	1	10	25
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	6	6	56	34	90	50	10	60	150
II Horticulture									
a) Vegetable Crops									
Nursery raising	-	-	-	-	-	-	-	-	-
Export potential vegetables	1	1	10	2	12	10	3	13	25
Protective cultivation (Green Houses, Shade Net etc.)	1	1	9	2	11	14	0	14	25
b) Fruits									
Cultivation of Fruit	1	1	12	5	17	7	1	8	25
Management of young plants/orchards	1	1	14	2	16	8	1	9	25
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation	1	1	13	0	13	10	2	12	25

techniques of Ornamental Plants									
d) Plantation crops	1	1	10	3	13	10	2	12	25
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	1	1	6	5	11	10	4	14	25
Total	7	7	74	19	93	69	13	82	175
III Soil Health and Fertility Management									
Soil fertility management	1	1	15	2	17	7	1	8	25
Soil and Water Conservation	1	1	10	4	14	10	1	11	25
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	1	14	5	19	5	1	6	25
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	1	1	10	7	17	7	1	8	25
Nutrient Use Efficiency	1	1	13	2	15	6	5	10	25
Soil and Water Testing	1	1	16	2	18	5	2	7	25
Total	6	6	78	22	100	40	11	50	150
IV Livestock Production and Management									
Dairy Management	1	1	11	2	13	12	0	12	25
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	1	1	11	2	13	12	0	12	25
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	1	15	2	17	7	1	8	25
Design and development of low/minimum cost diet	1	1	3	2	5	15	5	20	25
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in	1	1	13	2	15	6	4	10	25

TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	2	2	15	10	25	19	6	25	50
Sheep and goat rearing	1	1	9	2	11	10	4	14	25
TOTAL	3	3	24	12	36	29	10	39	75
(C) Extension Personnel									
Productivity enhancement in field crops	1	1	10	0	10	8	7	15	25
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	1	10	3	13	9	3	12	25
Integrated Nutrient management	1	1	13	5	17	8	0	8	25
Gender mainstreaming through SHGs	1	1	8	5	13	7	5	12	25
TOTAL	4	4	41	13	53	32	15	47	100

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	F &FW	Weed Management	2	22	10	32	14	4	18	50
February	F &FW	Resource Conservation Technologies	1	10	5	15	8	3	11	25
March	F &FW	Integrated Farming	1	16	2	18	6	0	6	25
September	F &FW	Water management	-	-	-	-	-	-	-	-
October	F &FW	Seed production	1	9	5	14	8	3	11	25
November	F &FW	Integrated Crop Management	2	20	14	34	12	4	16	50
Horticulture										
January	F &FW	Off-season vegetables	1	15	5	15	3	2	5	25
February	F &FW	Protective cultivation (Green Houses, Shade Net etc.)	2	44	18	62	29	9	38	50
March	F &FW	Management of young plants/orchards	1	14	5	19	5	1	6	25

September	F &FW	d) Plantation crops	1	10	3	13	9	3	12	25
October	F &FW	Production and Management technology	1	10	2	12	5	3	8	25
November		g) Medicinal and Aromatic Plants	1	8	5	13	7	5	12	25
Livestock production	F &FW	Dairy Management	1	8	5	13	9	3	12	25
	F &FW									
January	F &FW	Household food security by kitchen gardening and nutrition gardening	2	18	8	26	15	9	24	50
February	F &FW	Design and development of low/minimum cost diet	1	8	5	13	8	4	12	25
March	F &FW	Designing and development for high nutrient efficiency diet	1	11	5	16	7	2	9	25
September	F &FW	Minimization of nutrient loss in processing	1	5	5	10	8	7	15	25
October	F &FW	Gender mainstreaming through SHGs	1	14	5	19	4	2	6	25
November	F &FW	Value addition	1	15	5	20	3	2	5	25
	F &FW	Income generation activities for empowerment of rural Women	1	11	9	20	5	0	5	25
December	F &FW	Women and child care	1	19	5	24	1	0	1	25
Plant Protection										
January	F &FW	Integrated Pest Management	1	7	6	13	8	4	12	25
February	F &FW	Integrated Disease Management	1	10	6	16	7	2	9	25
March	F &FW	Bio-control of pests and diseases	1	11	5	16	9	0	9	25
September	F &FW	Production of bio control agents and bio pesticides	1	12	0	12	10	3	13	25
Production of Inputs at site	F &FW	Vermi-compost production	1	5	8	13	8	4	12	25
	F &FW	Organic manures	1	12	4	16	7	2	9	25

		production								
Agriculture Extension (Capacity Building and Group Dynamics)										
January	F &FW	Leadership development	1	5	8	13	8	4	12	25
February	F &FW	Group dynamics	1	9	7	16	7	2	9	25
March	F &FW	Formation and Management of SHGs	1	5	5	10	8	7	15	25
September	F &FW	Mobilization of social capital	1	14	5	19	4	2	6	25
	F &FW	Entrepreneurial development of farmers/youths	1	15	5	20	3	2	5	25
Soil Science										
January	F &FW	Soil fertility management	1	17	1	18	5	2	7	25
February	F &FW	Soil and Water Conservation	1	10	5	15	8	2	10	25
March		Production and use of organic inputs	1	8	5	13	8	4	12	25
September		Soil and Water Testing	1	15	2	17	8	0	8	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	F &FW	Weed Management	1	7	5	12	8	5	13	25
February	F &FW	Cropping Systems	1	9	11	20	5	0	5	25
March	F &FW	Crop Diversification	1	14	3	17	7	1	8	25
September	F &FW	Seed production	1	11	10	21	4	0	4	25
October	F &FW	Nursery management	1	5	0	5	17	3	20	25
November	F &FW	Integrated Crop Management	1	10	5	15	9	1	10	25
Horticulture										
January	F &FW	Export potential vegetables	1	10	2	12	10	3	13	25
February	F &FW	Protective cultivation (Green Houses, Shade Net etc.)	1	9	2	11	14	0	14	25
March	b) Fruits	Cultivation of Fruit	1	12	5	17	7	1	8	25
September	F &FW	Management of young plants/orchards	1	14	2	16	8	1	9	25
October	F &FW	Propagation	1	13	0	13	10	2	12	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		techniques of Ornamental Plants								
November		d) Plantation crops	1	10	3	13	10	2	12	25
December	F &FW	g) Medicinal and Aromatic Plants	1	6	5	11	10	4	14	25
Livestock production										
		Disease Management	1	11	2	13	12	0	12	25
Home Science										
January	F &FW	Household food security by kitchen gardening and nutrition gardening	1	15	2	17	7	1	8	25
February	F &FW	Design and development of low/minimum cost diet	1	3	2	5	15	5	20	25
March	F &FW	Minimization of nutrient loss in processing	1	13	2	15	6	4	10	25
September	F &FW	Gender mainstreaming through SHGs	1	10	2	12	10	3	13	25
October	F &FW	Value addition	1	10	4	14	10	1	11	25
November	F &FW	Income generation activities for empowerment of rural Women	1	3	2	5	15	5	20	25
December	F &FW	Women and child care	1	10	5	15	7	3	10	25
Plant Protection										
January	F &FW	Integrated Pest Management	2	17	5	22	17	11	28	50
February	F &FW	Integrated Disease Management	1	9	5	14	8	3	11	25
March	F &FW	Bio-control of pests and diseases	1	15	2	17	5	3	8	25
October	F &FW	Production of bio control agents and bio pesticides	1	11	5	16	8	1	9	25
November										
Agriculture Extension (Capacity Building and Group Dynamics)										
January	F &FW	Leadership development	1	8	6	14	8	3	11	25
February	F &FW	Group dynamics	1	11	2	13	7	5	12	25
March	F &FW	Entrepreneurial development of farmers/vouths	1	7	2	9	14	2	16	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Soil Science										
April	F &FW	Soil fertility management	1	15	2	17	7	1	8	25
June	F &FW	Soil and Water Conservation	1	10	4	14	10	1	11	25
September	F &FW	Production and use of organic inputs	1	14	5	19	5	1	6	25
October	F &FW	Micro nutrient deficiency in crops	1	10	7	17	7	1	8	25
November	F &FW	Nutrient Use Efficiency	1	13	2	15	6	5	10	25
December	F &FW	Soil and Water Testing	1	16	2	18	5	2	7	25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	FW	Training on solarization for nursery management	5	12	5	17	5	3	8	25
September	FW	Training on rouging seed production program	5	14	0	14	8	3	11	25
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
September	FW	Training on multiplication and uses of various bio agents	5	16	0	16	6	3	9	25
Plant Protection										
October	FW	Training on Vermi- composting	5	17	2	19	6	0	6	25
November	FW	Training on production and value of Mushroom	5	13	2	15	10	0	10	25
December										
Agriculture Extension (Capacity Building and Group Dynamics)										
August	FW	Training on capacity building and	5	10	2	12	8	5	13	25

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Crop production and management	Training on R&F, BBF in soybean and chickpea	1	FW	5	13	5	5	3	17	8	25	-
2	Crop production and management	Training on SRI, SPI in paddy and arhar	1	FW	5	13	5	5	3	17	8	25	-
3	Post harvest technology and value addition	Training on value addition in soybean	1	FW	5	13	5	5	3	17	8	25	-

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-		
OILSEEDS	Soybean	JS 20-116	195
PULSES	Chickpea, Green gram, Pegen pea	JG 24 RVG 202, MH 421 BDN 716	195 700* 150* 150*
VEGETABLES	Coriander, Ginger Turmeric	Ajmer-1 Mahima Rajendra solani Selam	5 1 5 5
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

*Under seed hub pulse

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-	-	-
SPICES	-	-	-
VEGETABLES	Tomato, Chilli, Brinjal, cucurbits etc.	-	50,000.00
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (specify) Samplings	Drumstick, Mango, Guava, Citrus	-	4000.00

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS			-	-
1	Trichoderma	500	-	-
2	<i>Rhizobium</i>	500	-	-
3	Beauveria bassiana	1000(Lit.)	-	-
4	Metarhizium anisopliae	500	-	-
5	Pseudomonas fluorescens	500	-	-
6	<i>Verticillium</i>	200	-	-
7	<i>Panchagavya</i>		-	-
BIOFERTILIZERS			-	-
1	Vermicompost	500	-	-
2	NADEP	-	-	-
3	Non Symbiotic Azotobacter	200	-	-
4	Azolla	1000	-	-
5	Blue green algae	500	-	-
6	Acetobactor	500	-	-
7	Aspergillius	500	-	-
8	Azatobactor	500	-	-
9	Azospirillum	500	-	-
10	Phosphate solublizing Bacteria	500	-	-

11	Other Bio digester	500	-	-
BIO PESTICIDES			-	-
1	Dasparni arkl		-	-
2	Pesticides		-	-
3	Neemaastra			
4				
5			-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
	-	-	-	-
SHEEP AND GOAT	-	Sirohi	2+1	-
	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
Jan to Dec 2023	30	4000
Folder	5	1000 each
Bulletin	1	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Radio talks	Aakashwani	5
2	TV talks	Doordarshan	2
3	Newspaper coverage	Local News Paper	10
4	Internet (Youtube)	-	10
	Social media (Whats App, Facebook, Instagram, Twitter etc.)	-	4

Success stories/Case studies identified for development as a case: 04 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, line dept. and interface
2	Rural Youth	PRA and interface
3	In-service personnel	AES and line dept.
4	methodology for identifying OFTs/FLDs	PRA and interface
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

1. No. of farm families selected per village: 50
2. No. of survey/PRA to be conducted: 6

Sr. No.	Name of Village	Block	Distance of village from KVK	Activities planned
1.	Urdan	Betul	12	FLD / OFT/CFLD/ Trainings/ Awareness camp/ Field Day
2.	Sakadehi	Betul	14	FLD / OFT/CFLD/ Trainings/ Awareness camp/ Field Day
3.	Padhar	Ghodadongri	25	FLD / OFT/CFLD/ Trainings/ Awareness camp/ Field Day
4.	Jakhali	Ghodadongri	27	FLD / OFT/CFLD/ Trainings/ Awareness camp/ Field Day
5.	Dolidhana	Ghodadongri	29	FLD / OFT/CFLD/ Trainings/ Awareness camp/ Field Day
6.	Damjipura	Bhimpur	100	FLD / OFT/CFLD/ Trainings/ Awareness camp/ Field Day
7.	Flagship programmes of Drone and Natural Farming in whole District			

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2010

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1200	1200	6	-
Water Samples	-	-	-	-
Total	1200	1200	6	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Horticulture	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Veterinary science	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Women and child development	Poshan mah celebration, malnutrition trainings,

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
ATMA, NFSM	Trainings, scientist farmers interface, kisan mela, CFLD etc.

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details			Targeted Beneficiaries/Area/ Coverage	Targeted Area/Coverage
	Natural farming	Seed hub	Agri Drone		
January	Awareness camp,	-	Awareness camp,	-	-
February	Trainings,	Demonstration	Demonstration	20	20 Demo (Agri Drone)

March	Awareness	-	Awareness camp,	5	15 ha(Seed hub)
April	Field day	-	Awareness camp,	50	-
May	Awareness	-	Awareness camp,	50	-
June	Demonstration	Demonstration	Demonstration	20	20 Demo (Agri Drone)
July	Trainings	-	Demonstration	5	10 ha(Seed hub)
August	Trainings	-	Demonstration	30	30 Demo (Agri Drone)
September	Trainings	-	Awareness camp,	50	-
October	Demonstration	Demonstration	Demonstration	5	50 ha(Seed hub)
November	Trainings, Awareness	-	Demonstration	40	40 Demo (Agri Drone)
December	Trainings,	-	Demonstration	40	40 Demo (Agri Drone)

Planning for Crop Cafeteria Kharif-2023

Total Area of Crop cafeteria: 2000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 95-60	Short duration	100
		JS 20-34	Short duration	100
		JS 20-29	Medium duration	100
		JS 20-98	Medium duration	100
		JS 93-05	Medium duration	100
		RVS 2001-04	Medium duration	100
		RVS 2001-08	Medium duration	100
		NRC-7	Long duration	100
Sesamum		JS 97-52	Long duration	100
		TKG-306	Oilseed duration	50
		TKG-308	Oilseed	50
		TKG-22	Oilseed	50
		TKG-55	Oilseed	50
Kodo		JK 55	Minor millet	50
		JK 137	Minor millet	50
		JK198	Minor millet	50
		JK 98	Minor millet	50
Kutki		JK 8	Minor millet	50
		JK 36	Minor millet	50
		JK-4	Minor millet	50
Mustard		Pusa Mustard 25	Oilseed	50

Rabi 2023-24

Rabi 2020-21				
Wheat	Season	DBW 187	Irrigated	100
	Rabi	HD 3226	Irrigated	100
		HD 2967	Irrigated	100
		HD 8759	Irrigated	100
		MP 1202	Semi Irrigated	100
		HI 1544	Semi Irrigated	100
		MP 3382	Rainfed	100
		MP 3288	Rainfed	100
		MP 3336	Rainfed	100
		MP 3211	Rainfed	100
Chickpea		JG 14	Rainfed	50
		JG 11	Rainfed	50
		JG 130	Rainfed	50
		JG 24	Rainfed	50
		JG 36	Rainfed	50
		RVG 201	Rainfed	50
		RVG 202	Rainfed	50
		RVG 203	Rainfed	50
Linseed		JLS 09	Rainfed	50
		JLS 27	Rainfed	50

		JLS 67	Rainfed	50
		JLS 73	Rainfed	50
		JLS 45	Rainfed	50
		JLS 9	Rainfed	50

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sqm)	Output /Production
Natural farming Kharif 2023	Maize (HMM 1014)	1000	400 kg
	Sesamum(TKG 55)	1000	50 kg
	Brinjal	500	100 kg
	Ginger	1000	100 kg
	Kodo(JK 137)	1000	50 kg
	Kutki(JK-4)	1000	50 kg
	Bajra	1000	50 kg
Natural farming Rabi 2023-24	Chickpea(RVG 202)	1000	100 kg
	Linseed(Rashmi)	1000	50 kg
	Chilly	1000	50 kg
	Mustard	1000	50 kg
	Gadmal	1000	20 kg
	Potato	1000	100 kg

ANNUAL ACTION PLAN 2023

KVK__CHHATARPUR_____

Year of sanction 2006

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.K. Singh	8349023227	8349023227	kvk_chhattarpur@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Veena Pani Shrivastava	Pri. Scientist	Horticulture	37,400-67,000, 9,000 G.P.	01.03.2007	2007	9826742776	veenapani73@gmail.com	
2	Subject Matter Specialist	Dr. Sandeep Kumar Khare	Scientist	LPM	15,600-39,100	05.02.2007	2007	700049580	getsandipkumar@rediffmail.com	
3	Subject Matter Specialist	Dr. Rajiv Kumar Singh	Scientist/ SS& H (I/c)	Agronomy	15,600-39,100, - 6000 G.P.	10.10.2017	2017	8349023227	rajiv_kv@rediffmail.com	
4	Subject Matter Specialist	Dr. Kamlesh Ahirwar	Scientist	Horticulture	15,600-39,100, - 6000 G.P.	18.08.2017	2017	9893627815	kamleshahirwarnicra@rediffmail.com	
5	Subject Matter Specialist	Dr. Niharika Shukla	Scientist	Genetics & Plant Breeding	15,600-39,100, - 6000 G.P.	29.09.2017	2017	6261866634	niharikas86@gmail.com	
6	Subject Matter Specialist									
7	Subject Matter Specialist									
8	Programme Assistant									
9	Computer Programmer/ Programme Assistant	Mr. R.K Soni								
10	Farm Manager	Mr. Shafique Ahmad			9300--34800, 4200 G.P.	27.11.2006	2006	9827846624	kvk_chhattarpur@rediffmail.com	
11	Assistant									
12	Jr. Stenographer / Comp. Operator	Mrs. RamayaniGurjar			5,200—20,200, 240	09.10.2018	2018	7047650721	ramayanigurjar8@gmail.com	

1.3 Total land with KVK (in ha):.....20.....

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2	Under Demonstration Units	2.0
3	Under Crops	13.6
4	Orchard/Agro-forestry	2.0
5	Others (specify)	2.0 under Layout
Total		20.0

1.4 Infrastructural Development:
A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2008	497.17	-			Completed
2	Farmers Hostel		2008	148.4	-			Completed
3	Staff Quarters (6)		2008	282.64	-			Completed
4	Demonstration Units (2)		2019	10000	-			Completed
5	Fencing		2014	10000				
6	Rain Water harvesting system							
7	Threshing floor			4225				Completed
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	2011	45000	48133	Working
Bolero(Jeep)	2019	730000	61691	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2010	42500	Not working
Xerox Machine	2011	58510	Not working
Generator	2010		Not working
Video Camera	2019	28700	
Computer, Laser Printer	2008		
UPS 600 VA			
Stabilizer 2 KVA			
Stabilizer			
Inverter 600 VA (2)	2019		Working
Inverter Battery (2)	2020		Working
Generatar	2009	48564	Not working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	21.07.22
2	03.02.23

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Black gram-Wheat/Gram/Mustard
2	AES – 2	Sesame- Wheat/Gram/Mustard
3	AES – 3	Groundnut- Wheat/Gram/Mustard
4		Cucurbitaceous Vegetable-Potato
5		Cucurbitaceous Vegetable-Tomato/Chilli/Brinjal
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Bundelkhand Plateau (ZoneVIII) (Tikamgarh, Chhatarpur, Datia district)	North latitude- 24.20. East longitude-79.25 Elevation from sea level- 600' Slop- 0.002 to 5.0 % Average annual rainfall-1074 mm Maximum temprature-42.7 ⁰ C Minimum temprature-7.5 ⁰ C Maximum humidity-85% Minimum humidity-18% Shallow to medium black, red and leteritic soil, undulated uplands, low fertility status and micronutrient deficiency, poor moisture holding capacity and high P -fixation capacity.
2	AES - 2	Rainfall 1000-1100, Soil- Light to medium,
3	AES – 3	Rainfall 900-1000, Soil – heavy texture

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Bundelkhand Plateau)

To facilitate the availability of seed of improved varieties of major crops (Soybean/Gram/Wheat/Black gram/Mustard) and better input used management
Better input use management-IPNM, IPM, IDM
To motivate farmers towards the cultivation of Vegetables/ Spices/ Medicinal crops
Balance feeding of milch animal and health management
Need to organize Agri-based Vocational trainings for Self-employment of Rural Youth
Conservation of natural recourses and use of Organic and Bio-fertilizer
To create awareness regarding post harvest losses during storage and value additions to Agro-products
Women empowerment through training and farm mechanization

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	1115
Forest	273.6
Waste Land and Pasture land	106.2
Other than cultivated area	87.5
Cultivable waste and alkaline land	51.57
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	595.2
Area Sown	775.3
Kharif	352.15
Rabi	423.16
Zaid	25.5
Cropping Intensity	143.5

Irrigated Area with Different Sources:

S. No.	Description	Area (ha000)
1	Canal	57.9
2	Well	120.7
3	Tube well	5.1
4	Ponds	4.2
5	Others	22.2

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Sandy loam	Soil having 50-80% sand, 00-50% silt and 00-20% clay, low SOM, low WHC	166.3
2	Sandy clay loam	Soil having 50-80% sand, 00-30% silt and 20-30%clay medium to high WHC	77.0
3	Clay loam	Soil having 20-50% sand, 00-20-50% silt and 20-30 clay Medium to high WHC	47.3
4	Clay	Soil having 00-50% sand, 00-50% silt and 30-100% clay, High WHC	696.0

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Black gram	172.0	92.87	540
2	Sesame	90.17	26.68	376
3	Soybean	31.35	26.58	1000
4	Groundnut	33.2	43.16	1137
5	Wheat	275.05	523.37	3090
6	Chickpea	92.00	60.47	1204
7	Mustard	18.02	1930	1071

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	92	20.2	7.2
Feb, 22	0.0	27.9	8.9
Mar, 22	1.0	35.6	15.3
Apr, 22	0.0	43.1	20.9
May, 22	23.2	43.2	25.8
Jun, 22	86.8	40.8	26.6
July, 2022	239.8	34.4	28.8
Aug., 2022	298.5	31.2	22.4
Sept., 2022	267.0	27.1	19.3
Oct. 2022	78.9	32.3	17.4
Nov. 2022	0.0	29.8	10.8
Dec. 2022	0.0	25.6	7.0

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	516667	 MT.	 kg
Buffalo	323328	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	61196	 MT wool	 kg
Goats	329993	 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	23295	---	---
Rabbits			
Poultry			
Hens	189841	 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Chhatarpur	Nowgong and Rajnagar	Singrawankala, Chokhada and Nandalpura	Blackgram, sesame &Groundnut and wheat, Chickpea and Mustard	Low yield crop due lack of awareness about improved variety, highly susceptible old variety against diseases and insect, Weeds are more crucial problems in among problems for Kharif season crop	To facilitate the availability of seed of improved varieties of major crops Better input use management- INM, IPM, IDM

Priority / Thrust areas

KVK Name	THRUST AREA

Chhatarpur	To facilitate the availability of seed of improved varieties of major crops (Blackgram/Groundnut /SesameWheat/ Gram//Mustard)
	Better input use management-INM, IPM, IDM
	To motivate farmers towards the cultivation of Vegetables/ Spices/ Medicinal crops
	Balance feeding of milch animal and health management
	Need to organize Agri-based Vocational trainings for Self-employment of Rural Youth
	Conservation of natural resources and use of Organic and Bio-fertilizer
	To create awareness regarding post harvest losses during storage and value additions to Agro-products
	Women empowerment through training and farm mechanization

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
8	8	110	110

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
7	145	4	91

Seed Production (Qtl.)	Planting material (Nos.)
80	500

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Nutrition sensitive agriculture	Wheat	Low yield and nutrients security of old variety of wheat	Assessment of Nutrich improved variety of Wheat JW 3382.		2	1		Seed
2	Natural Farming	NRM		Demonstration of Bio decomposer for recycling of waste material and their use in chickpea crop.		1	1	Field day	Biofertilizers
3	Varietal Evaluation and demonstration	Coriander and Turmeric	Low yield of Coriander due to adoption of old variety	Assessment of Coriander improved Variety Sudha	Demonstration of turmeric improved Variety Roma	1		Field day	Seed
4		Garlic and Tomato		Assessment of improved Variety of Garlic G-189	Demonstration of high yielding tomato variety Kashi Aman		1	Field day	Seed
5		Onion			Demonstration of high yielding Onion variety Bhima kiran	1	1	Field day	Seed
6	Organic farming	Chickpea			Demonstration of Biofertilizers (Seed treatment and soil application) along with	1	1	Field day	Biofertilizers

					FYM in chickpea under Blackgram-Chickpea cropping System.				
7	IFS				Demonstration of backyard poultry farming (Kadakhath) cum backyard Kitchen garden.	1	1	Field day	Chicks
9	IPM	Brinjal		Demonstration on management of shoot and fruit borer Brinjal		1	1	Field day	Seedling
10	IDM	Chilli		Assessment of leaf curl management in chilli				Field day	Seedling
11	INM	Groundnut	Low yield of groundnut due to adoption of imbalance and indiscriminate use of fertilizers	Assessment of balance dose of fertilizers along with micronutrient Zinc sulphate and Borax in Groundnut crop under Groundnut-Wheat cropping system		1	1	Field day	Fertilizers
12	IWM	Wheat	Low yield of Wheat and Groundnut due to heavy infestation of weeds	Assessment of herbicides (Sulphosulphuron +metasulphuron) in Wheat crop variety JW 3211 under Black gram - Wheat cropping system.	Demonstration of appropriate weedicide (Clodinafop propargyl + Metsulfuron) in wheat crop.	1	1	Field day	Herbicide
13		Groundnut		Demonstration of Imazethapyr +Quizalofop ethyl in Groundnut		1			Herbicide
14	ITK	Wheat		Assessment of Storage grain and pest management by dry neem (Azadiracta indica) leaves.		1	1		-

Technologies to be assessed
A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
Nutrition sensitive agriculture	Wheat									
Natural Farming			Chickpea							
Varietal Evalution and demonstration					Coriander And Garlic				Turmeric and Onion	
INM		Groundnut								
IWM	Wheat									
TOTAL	2	1	1		2				2	8

Abstract on the number of technologies to be assessed in respect of livestock/enterprises-NA

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)
OFT-1

Crop / Enterprise	Groundnut crop	
Title of on farm trial	Assessment of balance dose of fertilizers along with micronutrient Zinc sulphate and Borax in Groundnut crop under Groundnut- Wheat cropping system	
Problem diagnosed	Low yield of Groundnut due to imbalance/ indiscriminate use of fertilizers	
Farmers' Practices	Farmers Practices (50 kg DAP/ha)	
Details of technologies selectedfor assessment	T ₁	Farmers Practices (50 kg DAP/ha)
	T ₂	Recommended dose of fertilizers N:P:K (25:50:25 kg NPK /ha), T ₂ + ZnSo4 @ 25 kg/ha + Borax @ 10 kg/ha as basal application.
Source of technology	Junagardh Agriculture University Jodhpur, Rajesthan (2017)	
Plot size	1 ha	
No. of farmers	05	
Total cost	14000	
Critical input	Judicious use of macro and micro nutrients in groundnut crops	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of nodules/plant, No. of pegs/plant, Q/ha, B:C Ratio	

OFT -2

1	Enterprise	Wheat
2	Title of on-farm trial	Assessment of storage grain and pest management by dry neem (<i>Azadiracta indica</i>) leaves
3	Problem diagnosed	Heavy losses of during storage (20-25 %) Period
4	Farming situation	Rainfed
5	Production system and thematic area	Blackgram –Wheat cropping system and Grain and Seed storage
6	Farmers' practices	Storage of grains without treated
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Storage of grains without treated : T ₂ : Storage of grains (Wheat) with dry neem leaves @ 250 gm/ quintal grains
8	Source of technology	Shri Krishna, S/o Shri Ghasi Ram , Khai Khera Rithoura dist, Bareilly U.P.
9	No. of animals	
10	No. of farmers	05
11	Critical input	Safe storage of food grains (Wheat, Gram, Black Gram) are five months_
12	Cost of input	40
13	Total cost	120
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Percent in Per kg grain. Per quintal. B:C Ratio

OFT -3

1	Enterprise	Coriander
2	Title of on-farm trial	Assessment of improved variety Sudha
3	Problem diagnosed	Low yield of due to use of local/old Variety
4	Farming situation	Irrigated
5	Production system and thematic area	Varietal evaluation
6	Farmers' practices	Old Variety
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : old variety : T ₂ Assessment of improved variety Sudha
8	Source of technology	
9	No. of farmers	05
10	Critical input	Improved variety coriander sudha
11	Cost of input	1800
12	Total cost	1800
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No. of Fruits/plant, Yield-Kg/plant, Weight of Rhizome/plant (gm.), Yield -(q/ha) Land equivalent ratio of both crop. (Rs /ha.), B:C Ratio

OFT -4

1	Enterprise	Papaya
2	Title of on-farm trial	Assessment of improved variety (Redson) of papaya
3	Problem diagnosed	Low yield of Papaya due to use of local/old Variety (Redlady)
4	Farming situation	Irrigated
5	Production system and thematic area	Brinjal-Chilli cropping system and Varietal evaluation
6	Farmers' practices	Adoption of old variety (Redlady)
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Old Variety (Redlady) : T ₂ Redson
8	Source of technology	Known You By JNKVV
9	No. of animals	
10	No. of farmers	05
11	Critical input	Higher production and Resistant to Ring spot virus
12	Cost of input	6400
13	Total cost	12500
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Number of fruits/plant, q/ha, B:C ratio

OFT -5

1	Enterprise	Wheat
2	Title of on-farm trial	Assessment of Nutrich improved variety of Wheat JW 3382
3	Problem diagnosed	Low yield of Wheat and deficiency of Nutrient value
4	Farming situation	Irrigated
5	Production system and thematic area	Blackgram – Wheat cropping system and Varietal Evaluation
6	Farmers' practices	Adoption of old variety Lok-1 or GW 322
7	Details of technologies selected for assessment/refinement Treatments	T1 Old variety (LOK 1/GW 322) T2 New and improved variety JW 3382
8	Source of technology	JNKVV, Jabalpur 2015
9	No. of animals	
10	No. of farmers	05
11	Critical input	Provide seed of Wheat Variety JW 3382
12	Cost of input	1400
13	Total cost	12600
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No. of grains/ear, Yield/ Sqm, Yield Q/ha, B:C ratio

OFT -6

1	Enterprise	Wheat
2	Title of on-farm trial	Assessment of herbicides (Sulphosulphuron+metasulphuron) in Wheat crop variety JW 3211 under Black gram - Wheat cropping system.
3	Problem diagnosed	Low yield of the wheat crop due to improper management of weed
4	Farming situation	Irrigated
5	Production system and thematic area	Black gram - Wheat cropping system
6	Farmers' practices	Inappropriate application of herbicide (2, 4 D)
7	Details of technologies selected for assessment/refinement Treatments	T1 Inappropriate application of herbicide (2, 4 D) T2 Metasulphuron @ 20 g a.i/ha T3 Sulphosulphuron+metasulphuron @ 160 g/ha
8	Source of technology	DWR, Jabalpur 2014-15
9	No. of animals	
10	No. of farmers	05
11	Critical input	Herbicide-Sulphosulphuron+metasulphuron @ 160 g/ha
12	Cost of input	800
13	Total cost	12600
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Weed density/m² . WCE, No. of tillers/ Sqm, Yield- Q/ha and B:C ratio

OFT -7

1	Enterprise	Chilli
2	Title of on-farm trial	Assessment of leaf curl virus management in chilli
3	Problem diagnosed	Low yield of chili due to severe infestation of leaf curl virus in susceptible variety
4	Farming situation	Irrigated
5	Production system and thematic area	Brinjal-Chilli cropping system and IDM
6	Farmers' practices	Indiscriminate use of pesticide
7	Details of technologies selected for assessment/refinement Treatments	T1 Indiscriminate use of pesticide T2 Spray of Acetamaprid 125 gm /ha
8	Source of technology	IARI(2014)
9	No. of animals	
10	No. of farmers	07
11	Critical input	Supply of diseases free seedling of Chili
12	Cost of input	4000
13	Total cost	7500
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No. of Fruits /plant, Y- (Q/ha.), NR (Rs/ha.), B:C ratio

OFT -8

1	Enterprise	Garlic
2	Title of on-farm trial	Assessment of improved verity (G-189) Garlic
3	Problem diagnosed	Low yield of Garlic due to use of local/old Variety
4	Farming situation	Irrigated
5	Production system and thematic area	Varietal evolution
6	Farmers' practices	Old variety
7	Details of technologies selected for assessment/refinement Treatments	T1 Old variety T2 Assessment of improved verity (G-189) Garlic
8	Source of technology	NHRDF 2019
9	No. of animals	-
10	No. of farmers	05
11	Critical input	Improved Variety Garlic (G-189)
12	Cost of input	1800
13	Total cost	1800
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No.of fruits Per plant, Yield Q/ha, NR- Rs/ha and B:C ratio

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	
Year/Season:	
Farming situation:	
Problem diagnosis:	
Thematic area:	
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
T3- Recommended Practice-	
Date of sowing:	

Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	
No. of farmers/farm women involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Groundnut	Weed management	Demonstration of Weed management through Imazathapyr +Quizalofop p ethyle	Imazathapyr (70 g/ha) +Quizalofop p ethyle@ 70 g/ha	Kharif 2022	5	12	Weed density/m ² , WCE (%), No. of pod/plant , No. of grains/pod yield q/ha and B:C ratios.
2	Wheat Crop residue /livestock waste material	Resource conservation	Recycling of waste material through Bio decomposer	One litter Bio decomposer.	Kharif 2022-23	12	12	Number of days are required for decomposition (Days), Organic carbon (%), Nutrient content N, P, K (%) in decomposed matter
3	Brinjal	IPM	Demonstration of shoot and fruit borer management in Brinjal crop	Emamectin benzoate 5% SG	Kharif 2022-23	1	5	Damage % Yield (q/ha.) ,Net return (Rs/ha.),B:C ratio
4	Turmeric	Varietal	Demonstration of turmeric improved Variety Roma	Turmeric Seed @ 200 kg	Kharif 2022-23	1	5	Av.tuber Weight of Five plant, yield q/ha, Net return Rs/ha and B:C Ratio
5	Tomato	Varietal demonstration	Demonstration of high yielding tomato variety Kashi Aman	Provide Tomato seedling 8000 each farmers	Kharif 2022-23	1	5	Yield (q/ha.) ,Net return (Rs/ha.) and B:C ratio
6	Chickpea	Crop Production Management	Demonstration of Biofertilizers (Seed treatment and soil application) along with FYM in chickpea under Blackgram/Greengram- Chickpea cropping System	Biofertilizers Rhizobium for seed treatments and soil application PSB , KSB and Trichoderma @ 2 litter each	Rabi 2022-23	2	10	No. of nodule/plant, No. of pods/plant, Yield q/ha and B:C ratio
7	Wheat	Crop Production Management	Demonstration of appropriate herbicide (Clodinofofpropargly +Metsulfuron) in wheat crop	Clodinofofpropargly +Metsulfuron @ 160 gm	Rabi 2022-23	5	12	Weed density/m ² , WCE (%) , no. of tiller/m ² No. of grains/ear, Yield q/ha and B:C ratio
8	Onion	Varietal evaluation	Demonstration of high yielding Onion variety Bhima kiran	Seedling of onion variety Bhima kiran (3200-3400)	Rabi 2022-23	1	5	Bulb weight (g.) ,Yield (q/ha.) ,Net return

			for high keeping quality					(Rs/ha.),B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants (exp.)
1	Field days	10	6	250
2	Farmers Training	25	8	650
3	Media coverage	-		
4	Training for extension functionaries	6	5	120

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
	Blackgram	CPM	Demonstration of improved variety of Blackgram (Indira Urd Pratham)	Seed and herbicide	Kharif	20	50	Yield attributes and Economic parameters
	Groundnut	CPM	Demonstration of improved variety of Groundnut (GJG 32)	Seed and herbicide	Kharif	20	50	Yield attributes and Economic parameters
	Chickpea	CPM	Demonstration of improved variety of	Seed, Fungicide, Biofertilizers	Rabi	20	50	Yield attributes and Economic parameters

			Chickpea (JG 36)	and Insecticide as per need				
	Fieldpea	CPM	Demonstration of improved variety of Field pea (IPFD 12-2)	Seed, Fungicide, Biofertilizers and Insecticide as per need	Rabi	20	50	Yield attributes and Economic parameters
	Mustard	CPM	Demonstration of improved variety of Mustard (RH 725)	Seed, Fungicide, Biofertilizers and Insecticide as per need	Rabi	50	125	Yield attributes and Economic parameters
	Lentil	CPM	Demonstration of improved variety of Lentil (L4727)	Seed, Fungicide, Biofertilizers and Insecticide as per need	Rabi	10	25	Yield attributes and Economic parameters

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	2	200
2	Farmers Training	7	4	220
3	Media coverage	4	Kharif and Rabi	Mass
4	Training for extension functionaries	6	5	75

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	3	6	33	14	47	11	4	15	62
Resource Conservation Technologies	2	4	19	7	26	9	9	18	44
Integrated Farming	2	4	21	5	26	15	11	26	52
Water management	3	6	22	11	33	14	7	21	54
Seed production	3	6	33	14	47	11	4	15	62
Integrated Crop Management	5	10	42	32	74	21	11	33	104
Total	18	36	170	83	253	81	35	128	378
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	2	4	21	12	33	23	7	30	66
Protective cultivation (Green Houses, Shade Net etc.)	2	4	17	11	28	7	5	12	40
Total	4	8	38	23	61	30	12	42	106

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
b) Fruits									
Management of young plants/orchards	1	2	10	1	11	10	1	11	22
Total	1	2	10	1	11	10	1	11	22
c) Ornamental Plants	1	2	10	1	11	10	1	11	22
Total	1	2	10	1	11	10	1	11	22
d) Plantation crops	1	2	10	1	11	10	1	11	22
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology									
Total									
g) Medicinal and Aromatic Plants									
Production and management technology									
Total									
Grand total (Horticulture)									
II Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total									
III Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									

[illegible]

[illegible]

1. On Campus

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July		Importance of appropriate application of herbicides in field crops	1	16	-	16				
July		Use of appropriate weedicide of Imazathapyr +Quizalofop ethyl to manage of weeds in groundnut crop	1	16	-	16				
Oct		Maximization of weed control through application of weedicide at suitable time, methods, source and suitable dose.	1	16	-	16				
June		Maximum utilization of given or available resource by Intercropping	1	16	-	16				
Oct		Varietal replacement for reduce the risk and maximize the production	1	16	-	16				
Dec		Increase income and employment generation through Integrated farming system.	1	16	-	16				
Horticulture1										
		Training pruning of meadow orchard of Guava	1	16	-	16				
		Layout and Management of Papaya Orchards	1	16	-	16				

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Mung	Shikha	2.0
	Urd	IPU2-43	8.0
	Wheat	JW3288	25
OILSEEDS	Sesame	TKG-305	2.0
	Line seed	JLS73	4.0
PULSES	Chickpea	JG-12	8.0
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red lady	16700
SPICES	Chili	Pusha Sadabahar	16700
VEGETABLES	Tomato	PH-4, Abhililash	16700
	Brinjal	PH-9	16700
	Lemon	Sarwati	16700
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS	Marigold	Pusha Narangi	16700
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				

BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT	Goat	Sirohi	5+1	
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
2009	Quartely	1000 each quater

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Feed back and Ex training meet
2	Rural Youth	Feed back
3	In-service personnel	Feed back
4	methodology for identifying OFTs/FLDs	Result demonstration
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Singrawankalan	Nowgong	7 KM
2	Chaukada	Nowgong	15 KM
3	Nandlalpura	Rajnagar	98KM
4	Tapariyan	Rajnagar	98KM
5	Richai	Rajnagar	98KM
6			
7			
8			

1. No. of farm families selected per village : 40
2. No. of survey/PRA to be conducted: 1

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2011

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mini mridaparishak	2	working
2			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	250	200 expected	4	
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
JNKVV & RSKVV and their KVKs	Technical support
ICAR-DWR and IIPR	Technical support

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes

Name of Programme	Nature of linkage
ATMA	Formulate the package and Practices
NFSM	Formulate the package and Practices

Give details of programmers implemented under National Horticultural Mission:- NA

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes NICRA

Month	Activity details	Targeted Beneficiaries/Area/Coverage
July	Demonstration of Improved variety of Blackgram (PU 31) with sowing methods of Ridge and furrow.	10
June	Renovation of the check dams (2)	30
August	Demonstration of Appropriate herbicide Imazethapyr along with Quizalofop p ethyl for weed management in Groundnut crop.	15
October	Demonstration of drought tolerant limited irrigation wheat variety (JW 3288)	10
October	Demonstration of Site specific nutrients management in Chickpea crop with drought tolerant variety JG 12	20
October	Demonstration of Line sowing method of drought tolerant Mustard variety RH 725 or Toriya variety RVT 1.	10
October	Goat Breed upgradation	50
October	Animal Deworming camp (2)	25
October	Animal vaccination camp (2)	75
October	Mineral mixture distribution	10
October	Distribution of Kadaknath and Narndanidhi	10

Name of Flagship programmes CBBO

April	Base line Survey will be completed	600
May	Value chain study will be organised	5
July	Need-based training to be conducted	10
July	Developed training modules for seed production	5
June	Five year Business Plans to be completed	2
August	Four Interaction programme will be organized with line department and Board of director of FPOs	250

Round the year	Technical support for marketing of farmers Produces.	250
Round the year	Interaction will be conduct with Cooperative bank for Credit Guarantee Facility	200
Round the year	Interaction will be conduct with Veterinary department regarding Goat farming scheme in Bundelkhand region	200
	Properly monitoring and update of their knowledge regarding day by day advance in agriculture and Marketing.	100
Round the year	Properly crop advisory will be deliver to FPOs Members	600
Kharif and Rabi	Seed production pregame will be organized	175

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 20-34, JS 20-29, JS 20-69 and JS 20-98 and JG 9560	YMV Resistant	3X3 m (36 m ²)
Sesame		TKG 22,TKG 306 and TKG 308	Phytophthora Blight resistant and drought tolerant	3X3 m (90 m ²)
Turmeric		BSRB 2, Suranjana, IT 2 and IT 36	High yielding and Drought tolerant	3X3 m (54 m ²)
Ginger		Suruchi and Suprabha		
Blackgram and Green gram		T 9, PU 35, IPU 2-43 and Indira urd pratham and PDM 137, Shikha, TMV 137, TJM 37, Virat, and TJM 3	Short duration and YMV Resistant	3X3 m (90 m ²)
Wheat	Rabi	JW 3020, JW 3173, JW3211, JW3288, JW3382,GW 273, GW 322, GW 366, C 306 and Lok-1	High yielding and heat tolerant	2X 2.5 m (55 m ²)
Chickpea	Rabi	JG 36, JG12, JG16, JG 322, JG 74, JG11, JAKI 9218, JG 63 and JKG 5	Wilt resistant and drought tolerant	2X 2.5 (50 m ²)
Fieldpea	Rabi	Aman, PSM 3,Kashi Nandni and IPF 9225	Powdery mildew resistant and drought tolerant	
Vegetable	Rabi	Spinach, Laal Bhaji, Coriander, Methi, KasuriMethi, Lady's finger & Bottle Guard and Pumpkins	High yielding	3X3 m (54 m ²) and ½ Acre

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Waste management unit	Azolla Productin unit	48	35000-40000
	Vermicompost unit	48	
	Phospho compost	36	
	Phospho sulpho compost	36	
	Phospho sulpho Nitro compost	36	
	NADEP	36	
Fodder production unit	Azolla	48	
	Hybrid Naiper	100	
Vegetable Raising Unit	Vegetables	200	
Medicinal unit	All medicinal Plant	100	
Medo Orchard	Guava and Mango	2000	
Buded ber unit	Ber	1000	
Soybean Blanching Machine	Soybean	10	
Pulverizes Machine		5	
Juicer		5	
Pedal sealing Machine	Packing	5	
Processing unit	Honey Processing		
	Pulses Processing		
	Spices Processing		

ANNUAL ACTION PLAN 2023

KVK - CHHINDWARA

Year of sanction: 1984

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Surendra Pannase	07162-299534	9644347485	skpannase1958@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Surendra Pannase	Sr. Scientist & Head	Agronomy	211800	06.12.1986	01.01.2009	96443 47485	skpannase1958@gmail.com	
2	Subject Matter Specialist	Dr. D.C. Shrivastava	Scientist	Food Science	101100	11.05.2007	24.09.218	93006 31663	dhuruv4@gmail.com	
3	Subject Matter Specialist	Dr. R. K. Jhade	Scientist	Horticulture	66800	18.08.2017	18.08.2017	82376 87402	Jhaderk49@gmailcom	
4	Subject Matter Specialist	Mrs Riya Thakur	Scientist	Horticulture	66800	28.08.2017	04.01.2021	79874 85507	riyath29@gmail.com	
5	Subject Matter Specialist	Dr. Sarita Singh	Scientist	Agril. Ext.	66800	28.09.2017	28.09.2017	80853 63029	drsaritasingh10@gmail.com	
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
8	Computer Programmer/ Programme Assistant	Sh. Nitesh K. Gupta	Technical Officer	Computer Science	70000	26.03.2008	14.08.2008	98273 94930	niteshguptanet@gmail.com	
9	Programme Assistant	Sh. Sunderlal Alawa	Technical Officer	Agril. Ext.	60400	17.10.2011	20.11.2012	80852 37119	alawaslkvk@gmail.com	
10	Farm Manager	Smt. Chanchal Bhargava	Programme Assistant	PB&G	46700	28.01.2019	31.12.2019	94073 05449	chanchalm11@gmail.com	
11	Assistant	Smt. Madhu Jaiswal	Asstt. Gr.II	Commerce	54100	23.10.1984	23.10.1984	81206 40538	-	
12	Jr. Stenographer / Comp. Operator	Vacant	-	-	-	-	-	-	-	-
13	Driver	Sh. B. L. Shukla	Driver	-	32100	10.07.2008	10.07.2008	94073 41659	-	-
14	Driver	Sh. S. K. Vishwakarma	Driver	-	32100	15.07.2008	26.06.2019	94246 00026	-	-
15	Supporting staff	Vacant	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha): 22.314

S. No.	Item	Area (ha)
1	Under Buildings	0.098
2	Under Demonstration Units	0.016
3	Under Crops	21.6
4	Orchard/Agro-forestry	0.6
5	Others (specify)	-
Total		22.314

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	1986	450	-	-	-	-
2	Farmers Hostel	ICAR	-	-	-	-	-	-
3	Staff Quarters (6)	ICAR	2008		-	-	-	-
4	Demonstration Units (2)	TSP	2019	364	1244000	-	-	-
		CEO, Jila Panchayat				-	-	-
5	Fencing	JNKVV	-	-	-	-	-	-
6	Rain Water harvesting system	NA						
7	Threshing floor	JNKVV	1981	20	-	-	-	-
8	Farm godown	NA						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	NA	-	-	-
Motor Cycle 2	2010	55000	95000	Running
Bolero(Jeep)	2017	800000	128276	Running
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2005	45000	Not Working
Xerox Machine	2013	92000	Working
Generator	2015	38000	Working
Video Camera	2005	51990	Working
Computer, Laser Printer	2	90000	Working
UPS 600 VA	4	8000	Working
Stabilizer 2 KVA	NA	-	-
Stabilizer	2013	3500	Working
Inverter 600 VA (2)	2010	32000	Not Working
Inverter Battery (2)	2010	24000	Not Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	Pre Kharif
2	Pre Rabi

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	Satpura Plateau Zone	Early maize – gram / wheat Soybean-wheat/gram Jowar – fallow Cotton – fallow Kodo / kutki / Niger – fallow Vegetables – Vegetables Mandarin Sugarcane Soybean – Vegetables Dairying

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S.	Agro-climatic Zone	Characteristics

No.		
1	High range of satpura	Almost all rainfed area intercropping of cowpea and black gram in maize and Jowar. No second crop is being taken. Rabi black gram locally known as Gadhmaal is specially grown in bhimpur block.
2	Plateau of satpura	Vegetables are grown round the year especially in chhindwara and mohkhed block. Summer green gram is cultivated in between the rows of sugarcane as inter crop
3	Plains of satpura	Summer groundnut and onion after harvest of kharif cotton. Orange orchard is a dominant feature in the zone. Nagpuri santra intercropped with cotton, groundnut and soybean.

SWOT Analysis of each Agro-Ecological Situations of district
AES-1 (name)

Strength	Weakness	Opportunities	Threats

AES-2 (name)

Strength	Weakness	Opportunities	Threats

AES-3 (name)

Strength	Weakness	Opportunities	Threats

AES-4 (name)

Strength	Weakness	Opportunities	Threats

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	1184.9
Forest	479.5
Waste Land	615.6
Other than cultivated area	214.5
Cultivable waste and alkaline land	17.6
Pastures	52.0
Bushes	5.0
Current Fallow	40.7
Other Fallow	30.4
Agricultural Land	555.5
Area Sown	484.0
Kharif	487.4
Rabi	348.6
Zaid	45.00
Cropping Intensity	164.39 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	12245
2	Well	99593
3	Tube well	32098
4	Ponds	7368
5	Others	18355

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep soil	Soil surface is 36 to 60 inches from a layer that retards root development	448.4
2	Medium deep soil	Soil surface is 20 to 36 inches from a layer that retards root development	79.3
3	Shallow soil	Soil surface is 10 to 20 inches from a layer that retards root development.	655.9
4	Stony and gravelly	Shallow in depth varying from 5-15 cm with high sand percent	-
5	Sandy loam	Well drained and depth ranges from 25 to 50 cm. suitable for minor millets and pulses	-
6	Mixed red and yellow soils	Low in nutrients content with poor water retention capacity. Soils become	-

		soft when wet and hard when dry. Depth varying from 5-20 cm	
7	Light red and black soils	Soils are light in texture but poor in fertility with medium water retain. suitable for cotton, groundnut and soybean etc.	-
8	Medium Black cotton soils	Soils are very compact and tenacious and are highly retentive of soil moisture. They are highly suitable for growing Sorghum, soybean, cotton, maize, sugarcane, orange, guava and mango etc.	-

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Maize	260	1196	4600
2	Arhar	35	78.00	2250
3	Soyabean	50	75.00	1500
4	Cottan	53	136.0	2550
5	Wheat	302	1420	4700
6	Mustard	11.8	23.6	2000
7	Chickpea	50.5	106.1	2100
8	Mandarin	25000	475580 mt	20 t/ha
9	Mango	1525	22875 mt	15 t/ha
10	Potato	8707	217675 mt	25 t/ha
11	Tomato	8205	287175 mt	35 t/ha
12	Cauliflower	8741	244748 mt	28 t/ha
13	ChilLi	6970	139400 mt	20 t/ha

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	39.2	23.3	9.97
Feb, 22	0.3	27.38	11.7
Mar, 22	5.5	34.53	17.09
Apr, 22	0.0	40.66	22.44
May, 22	0.0	41.05	24.5
Jun, 22	193.2	37.2	23.7
July, 2022	464.8	28.41	22.35
Aug., 2022	344.9	28.35	22.32
Sept., 2022	176.4	28.0	20.84
Oct. 2022	29.0	29.91	17.7
Nov. 2022	0.0	28.85	11.09
Dec. 2022	4.2	27.95	11.57

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats		 MT	 kg
Pigs Crossbred/ Indigenous		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	4070083 bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	6856.5 (ha)	668.8 ('000 tons)	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bichhua	Bichhua	Jamtara	Maize, Gram, Wheat, Millets	• Pest infestation • Insect infestation • Low yield • Disease infestation	• Cropping System & Plant Disease Management • Cropping System &
2	Bichhua	Bichhua	Ghorad	Maize, Gram, Wheat, Millets		
3	Chhindwara	Chhindwara	Medhkital	Soybean, Pigeon Pea,		

				Maize, Gram, Wheat, Vegetable	• Low productivity • Lack of income generation activities • Malnutrition • Much time and energy expended by farm women in agricultural work i.e. intercultural operations • Non availability of technical know-how in critical time • Poor survival of nursery • Perishability of fruits and vegetables • Low yield due to imbalance use of nutrients • Non availability of green fodder round the year	Integrated Pest Management System & Drudgery reduction Cropping System, Drudgery reduction & Weed control Value addition & processing and marketing Awareness Plant Disease Management Cropping System & Integrated Nutrient Management Micro Irrigation Drainage System Fodder Management Cropping System & Integrated Nutrient Management Farm Machinery Fodder Management
4	Chhindwara	Chhindwara	Godhara	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
5	Mohkhed	Mohkhed	Sillvani	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
6	Mohkhed	Mohkhed	Tansara	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
7	Mohkhed	Mohkhed	Badnoor	Soybean, Maize, Gram, Wheat, Vegetable		
8	Chourai	Chourai	Hathni	Soybean, Maize, Gram, Wheat, Vegetable		
9	Chourai	Chourai	Sawri	Soybean, Maize, Gram, Wheat, Vegetable, Sugarcane		
10	Sausar	Sausar	Khand Seoni	Cotton, Pigeon Pea, Gram, Wheat, Vegetable, Orange		
11	Sausar	Sausar	Bairagarh	Cotton, Pigeon Pea, Gram, Wheat, Vegetable, Orange		
12	Pandhurna	Pandhurna	Govindpur	Cotton, Pigeon Pea, Gram, Wheat, Vegetable, Orange		

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	180	05	83

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	1600	170	13500

Seed Production (Qtl.)	Planting material (Nos.)
-	11000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Evaluation	Soybean	Low yield due to yellow mosaic virus (infestation 70%)	Assessment of soybean improved varieties JS 20-98 and JS 20-34					
2	Varietal Evaluation	Gram	Low yield due to wilt, collar rot and root rot (Intensity 40-50 %)	Assessment of wilt resistant variety of Chick pea JG 36 and JG 24					
3	Crop	Gram	Lack of awareness	Assessment of sowing					

	Production		about right sowing method	method in chickpea					
4	Organic Farming	Lentil	Low production of lentil due to wilt	Assessment of bio agent in lentil var. IPL 316					
5	PGR's	Nagpur mandarin	Fruit drop and small fruit size with inferior quality	Assessment of fruit retention, fruit size and quality in Nagpur mandarin					
6	Natural farming	Papaya	Indiscriminate use of chemical fertilizers effect the microbial activity in soil	Assessment of Jeevamrutha on growth and qualitative yield of papaya					
7	IDM	Nagpur mandarin	Heavy incidence of Phytophthora (gummosis) (Intensity – 70-75%)	Assessment of NRC/BA 44 (<i>Trichoderma harizanium</i>) to mitigate the incidence of Phytophthora/gummosis in Nagpur mandarin					
8	Varietal evaluation	turmeric	Low yield	Introduction of Roma and Rajendra Sonali variety of turmeric for higher yield					
9	IDM	Marigold	Heavy incidence of fusarium wilt in marigold	Assessment of various bio-agent for the management of fusarium wilt in marigold					
10	Organic farming	Garlic	Thrips is causing severe yield loss in garlic.	Assessment of eco-friendly module to control thrips in garlic					
11	IPM	cabbage	Heavy incidence of DBM in cabbage	Assessment of integrated pest management for the management of DBM in cabbage					
12	Natural farming	maize	Due to continues and imbalance use of chemical fertilizers soil fertility is adversely affected. As a result low yield is obtained with poor quality.	Assessment of natural farming effect in maize production.					
13	CBD (Capacity Building & Group Dynamics)	soil health card.	Poor knowledge about SHC recommendation.	Study of effectiveness about the knowledge & adoption of soil health card.					
14	Natural farming	mustard	Due to continues and imbalance use of chemical fertilizers soil fertility is adversely affected. As a result low yield is obtained with poor quality.	Assessment of natural farming effect in mustard production.					
15	CBD (ICT)	Nam Farmers	-	Study the Performance of Nam Farmers app use in					

				Chhindwara district.					
16	Drudgery reduction	millet thresher	Low efficiency, less recovery of grain in traditional method	Assessment of drudgery for farm women through millet thresher					
17	Food Processing	multi-millet grains flour	Low shelf Life	Assessment for shelf life of multi-millet grains flour					
18	Nutritional Security	bio-fortified protein rich wheat varieties	Lack of awareness for value addition	Assessment of products from bio-fortified protein rich wheat varieties for School going Children					

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	1	1	1	-	-	-	-	-	3
Crop Production	-	-	1	-	-	1	-	-	-	2
Organic Farming	-	-	1	-	1		-	-	-	2
Natural Farming	1	-	-	-	-	1	-	-	-	2
IDM	-	-	-	-		1	1	-	-	2
IPM	-	-	-	-	1	-	-	-	-	1
Food Processing	1	-	-	-	-	-	-	-	-	1
Drudgery Reduction	1	-	-	-	-	-	-	-	-	1
Nutritional Security	1	-	-	-	1	-	-	-	-	2
TOTAL	4	1	3	1	3	3	1	-	-	16

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

Information about OFT: 1 (Agronomy)

Title of on-farm trial:	Assessment of soybean improved varieties JS 20-98 and JS 20-34
Year/Season:	2023 / Kharif,
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to yellow mosaic virus (infestation 70%)
Thematic area:	Varietal Evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- JS 95-60
T2 –Recommended Practice-	T2- JS 20-69
T3- Recommended Practice-	T3- JS 20-34
Date of sowing:	15 July 2023
Date of harvesting:	25 Oct. 2023
Source of technology:	JNKVV,2015
Characteristics of technology:	HYV, disease resistant variety
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 2 (Agronomy)

Title of on-farm trial:	Assessment of wilt resistant variety of Chick pea JG 36 and JG 24
Year/Season:	2023 / Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to wilt, collar rot and root rot (Intensity 40-50 %)
Thematic area:	Varietal Evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- old variety
T2 –Recommended Practice-	JG 36
T3- Recommended Practice-	JG 24
Date of sowing:	15, Nov. 2023
Date of harvesting:	25, Feb 2024
Source of technology:	JNKVV,2019
Characteristics of technology:	Use multi resistant varieties
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 3 (PB&G)

Title of on-farm trial:	Assessment of sowing method in chickpea
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Lack of awareness about right sowing method
Thematic area:	Crop Production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional Method
T2 –Recommended Practice-	Raised bed method
T3- Recommended Practice-	Raised bed in paired row system
Date of sowing:	15 October 2023
Date of harvesting:	February to March 2024
Source of technology:	ICAR-IIPR Bhopal 2017
Characteristics of technology:	The objectives schedule the ways of breeding cultivars suited for sowing under irrigated conditions.
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 4 (PB&G)

Title of on-farm trial:	Assessment of bio agent in lentil var. IPL 316
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low production of lentil due to wilt
Thematic area:	Organic Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No seed treatment
T2 –Recommended Practice-	Seed treatment with Trichoderma viride @ 10g/kg seed
T3- Recommended Practice-	Seed treatment with Pseudomonas @ 10g/kg seed
Date of sowing:	15 October 2023
Date of harvesting:	15 February 2024
Source of technology:	ICAR-IIPR Kanpur 2017
Characteristics of technology:	Organic method
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Information about OFT: 5 (Horticulture)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of fruit retention, fruit size and quality in Nagpur mandarin
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Fruit drop and small fruit size with inferior quality
Thematic area:	PGR's
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of fertilizers and Pesticides
T2 –Recommended Practice-	Foliar application of 2,4-D @ 10 ppm + Urea @ 1% + Carbendazim 1 g/li
T3- Recommended Practice-	Foliar application of GA3 @ 10 ppm + 0:52:34 @ 1% + Carbendazim 1 g/li
Date of sowing:	Foliar spray after fruit set and at marble stage
Date of harvesting:	Feb-March
Source of technology:	ICAR-Central Citrus Research Institute (CCRI), Nagpur
Characteristics of technology:	Improving fruit retention and quality of fruits
Name of Crop/Enterprises:	Mandarin (Nagpur mandarin)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 6 (Horticulture)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Jeevamrutha on growth and qualitative yield of papaya
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Indiscriminate use of chemical fertilizers effect the microbial activity in soil
Thematic area:	Natural farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement)	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of chemical fertilizers
T2 –Recommended Practice-	Application of liquid jeevamrutha 100 L/acre at 30 days interval
T3- Recommended Practice-	Application of liquid jeevamrutha 200 L/acre at 30 days interval
Date of sowing:	Soil application at 30 days interval after plant set
Date of harvesting:	-
Source of technology:	National Centre for Organic and Natural Farming (NCONF), Ghaziabad
Characteristics of technology:	Improving soil microbial activities and maximize the beneficial microbes
Name of Crop/Enterprises:	Papaya
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 7 (Horticulture)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of NRCfBA 44 (<i>Trichoderma harizanium</i>) to mitigate the incidence of Phytophthora/gummosis in Nagpur mandarin
Year/Season:	2023/Annual
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of Phytophthora (gummosis) (Intensity – 70-75%)
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of fungicides and pesticides
T2 –Recommended Practice-	Paste + spraying + drenching Mefenoxam MZ @2.5g/li (twice during Aug. to Oct. at 40 days interval)
T3- Recommended Practice-	Soil application of NRCfBA 44 (<i>Trichoderma harizanium</i>) pre and post monsoon 100g/tree with well fermented FYM
Date of sowing:	In the months of July and October
Date of harvesting:	-
Source of technology:	ICAR-Central Citrus Research Institute (CCRI), Nagpur
Characteristics of technology:	Improve plant health and recover the effected plants
Name of Crop/Enterprises:	Mandarin (Nagpur mandarin)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 8 (Horticulture)

Name of Discipline	Horticulture
Title of on-farm trial:	Introduction of Roma and Rajendra Sonali variety of turmeric for higher yield
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Variety- Salem
T2 –Recommended Practice-	Variety- Roma
T3- Recommended Practice-	Variety- Rajendra Sonali
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR - Indian Institute of Spices Research, Kozhikode, Kerala
Characteristics of technology:	Variety Roma and Rajendra Sonali have higher yield and dry recovery %
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 9 (Horticulture)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of various bio-agent for the management of fusarium wilt in marigold
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of fusarium wilt in marigold
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of chemical fertilizers
T2 –Recommended Practice-	Soil application of <i>Trichoderma viride</i> @ 2.5 l/ha
T3- Recommended Practice-	Soil application of <i>Pseudomonas</i> @ 1.0 l/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV
Characteristics of technology:	Bio-agents are effectively control the soil-borne pathogens
Name of Crop/Enterprises:	Marigold
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 10 (Horticulture)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of eco-friendly module to control thrips in garlic
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Thrips is causing severe yield loss in garlic.
Thematic area:	Organic farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Imidachloprid @250ml/ha
T2 –Recommended Practice-	Spray of <i>Verticillium lecani</i> 2.5 Lit/ha@30 DAE + 25 blue sticky trap/ha
T3- Recommended Practice-	T2 + spray of <i>Verticillium lecani</i> 2.5 Lit/ha at 45 DAE.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCIPM-2016
Characteristics of technology:	The technology is eco-friendly and save the crop from initial infection of thrips.
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT: 11 (Horticulture)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of integrated pest management for the management of DBM in cabbage
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of DBM in cabbage
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of insecticides
T2 –Recommended Practice-	Two rows of mustard after every 25 rows of cabbage + Pheromone trap @ 10/ha + Spray of <i>Bt</i> (1g/litre)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-IIVR
Characteristics of technology:	Use of this practice is a good alternative as they are environmental friendly and have no residual effect.
Name of Crop/Enterprises:	Cabbage
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: 12

Crop/Enterprise	Maize
Title of on-farm trial	Assessment of natural farming effect in maize production.
Problem diagnosed	Due to continues and imbalance use of chemical fertilizers soil fertility is adversely affected. As a result low yield is obtained with poor quality.
Farming situation	Rainfed
Production system and thematic area	Natural farming
Farmers' practices	T1- Maize production traditionally
Details of technologies selected for assessment/refinement Treatments	T2- Production of maize via. Different components of natural farming T3 -
Source of technology	National Centre for Organic and Natural Farming (NCONF), Ghaziabad
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
Critical input	Material for preparation of jeevamrutha and beejamrit
Performance indicators Observation to be recorded	Yield (q/ha), B:C ratio
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior 2022
Characteristics of technology:	Natural farming components are eco-friendly and cost effective
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: 13

Title	Study of effectiveness about the knowledge & adoption of soil health card.
Season & Year	2023-24
Problem identified	Poor knowledge about SHC recommendation.
Thematic Area	CBD (Capacity Building & Group Dynamics)
Farming situation	-
Name of Technology Intervention under study	-
Farmers Practice	No use of fertilizer on the basis of SHC
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Knowledge, Adoption, Increase in Yield	%

Information about Extension OFT: 14

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of natural farming effect in mustard production.
Problem diagnosed	Due to continues and imbalance use of chemical fertilizers soil fertility is adversely affected. As a result low yield is obtained with poor quality.
Farming situation	Irrigated
Production system and thematic area	Natural farming
Farmers' practices	T1- Mustard production traditionally
Details of technologies selected for assessment/refinement Treatments	T2- Production of Mustard via. Different components of natural farming
	T3 -
Source of technology	RVSKVV, Gwalior 2022
No. of farmers	05
Area of each trial	0.4 ha
Critical input	Material for preparation of jeevamrutha and beejamrit
Performance indicators Observation to be recorded	Yield (q/ha), B:C ratio
Source of technology:	RVSKVV, Gwalior 2022
Characteristics of technology:	Natural farming components are eco-friendly and cost effective

Information about Extension OFT: 15

Crop/Enterprise	-
Title of on-farm trial	Study the Performance of Nam Farmers app use in Chhindwara district.
Year	2023
Production system and thematic area	CBD (ICT)
objective	➤ . To study the performance of the Nam Farmers app ➤ To document the factors affecting use of Nam Farmers app ➤ To study the constraints of Nam Farmers app ➤ Nam Farmers app its use and working
Name of Technology under study	Nam Farmers app Intervention: Study of Performance Nam App user farmers
Farmers Practice	WhatsApp, Groups, News papers, Mobile
No. of Farmers	50
Parameters/Indicators for measurement	1. No. of users of Nam Farmers app in district ; 2. No. of work done through Nam Farmers app ; 3. Constraints in using of Nam Farmers app; 4. Number of farmers who using Nam Farmers app.
Cost of input	2000
Total cost	7000

Information about Home Science OFT: 16

Title of on-farm trial:	Assessment of drudgery for farm women through millet thresher
Year/Season:	2023/Kharif
Problem diagnosis:	Low efficiency, less recovery of grain in traditional method
Thematic area: (Focus area in DFI and nutri smart initiatives)	Drudgery reduction
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of Traditional method -Kuneta
T2 –Recommended Practice-	Hand operated stone chakki (JATA)
T3–Recommended Practice	Power operated millet thresher
Source of technology:	ICAR-CIAE,Bhopal 2015
Characteristics of technology:	Millet Threshing machine designed by CIAE,Bhopal,specially for millet. It works on the principle of impact and shear for threshing, de-husking and pearling. Recovery percentage of grain 90%.
Name of Crop/Enterprises:	Millet thrashing unit
Farming situation:	Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Home Science OFT: 17

Title of on-farm trial:	Assessment for shelf life of multi-millet grains flour
Year/Season:	2023/kharif
Problem diagnosis:	Low shelf Life
Thematic area: (Focus area in DFI and nutri smart initiatives)	Food Processing
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Traditionally stored in Earthen pot and jute bag
T2 –Recommended Practice-	Stored in poly- Laminated Pro bag
T3–Recommended Practice	Store in Air tight Metal container
Source of technology:	ICAR-CIAE, Bhopal (2016)
Characteristics of technology:	Storage of millet flour (Jawar +Little millet) in poly- Laminated Pro bag 150 microns and Air tight steeliness steel Mattel container at low temperature at 15°C
Name of Crop/Enterprises:	Use of Multi grain millet flour jawar + Little Millet (Kutki)
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Home Science OFT: 18

Title of on-farm trial:	Assessment of products from bio-fortified protein rich wheat varieties for School going Children
Year/Season:	2023/Rabi
Problem diagnosis:	Lack of awareness for value addition
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of local variety used for daliya, laddu and halwa
T2 –Recommended Practice-	Wheat variety HI 8759 (Pusa Tejas) use for daliya, laddu and halwa
T3 –Recommended Practice-	Wheat variety HI 8663 (Poshan) use for daliya, laddu and halwa
Source of technology:	TNAU
Characteristics of technology:	Durum wheat variety HI 8663 contain Protein11.7%, B-carotene 6.5 ppm and iron 47ppm /100gm
Name of Crop/Enterprises:	Wheat
Farming situation:	irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No .	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Mustard	Varital Evaluation	Demonstration of improved variety of mustard	NRCH B 101 (Giriraj)	Rabi 2023	4.0	13	Yield q/ha
2	Vegetables (Chilli,Tomato)	NRM	Demonstration of pro tray technology with Insect proof net tunnel for rising virus free vegetable seedlings	Insect proof net 40 mash	Kharif (2023)	30 meter square	10	Germination %, Virus free healthy seedlings (%)
3	Tomato	IDM	Demonstration of eco-friendly practices for vector borne viral disease in tomato	Yellow sticky trap + Neem cake and neem oil	Kharif (2023)	0.2 ha	10	No. of infested plant (Number/5sqm) , Yield (q/ha) & fruit weight (g)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	June, July	80
2	Farmers Training	04	Sep, Oct	80
3	Media coverage	02	-	Mass
4	Training for extension functionaries	01	June	20

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1								
2								
3								
4								

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Napier grass	Jaywant	30	-	Napier grass	Increase in milk production (l/animal/day), SNF increase (%)	Increase in milk production, SNF increase	Increase in milk production, SNF increase

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration of backyard nutritional kitchen garden	Vegetables 1.Okra- VRO-6 2.Brinjal- Kanhaiya 3.Tomato- JK-Deshi	20	20	Nutritional garden seed kit	Yield in kg,	-	-

	4.Chilli- KA-2 5.Cowpea- CP-4 6.Sponge Gourd- Bejo F-1 7.Bottle Gourd- Varad 8.Palak- All Green 9.Amaranthus- Local 10.Radish- Pusa Chetiki Fruits 1.Drumstick 2.Papaya 3.Kagzi lime 4.Guava 5.Mango 6.Medicinal plant						

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Crop Production	RVS-2001-4	seed	Kharif	20	50	Yield q/ha
2	Niger	Crop Production	JNC-6	seed	rabi	20	50	Yield q/ha
3	Linseed	Crop Production	JLS-66	seed	rabi	10	25	Yield q/ha
4	Gram	Crop Production	RVG-202	seed	rabi	20	50	Yield q/ha
5	Pigeon pea	Crop Production	Rajeshwari	seed	Kharif	20	50	Yield q/ha
6	Lentil	Crop Production	Kota Masur-2	seed	rabi	10	25	Yield q/ha

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6		150
2	Farmers Training	8		250
3	Media coverage	10		mass
4	Training for extension functionaries	2		40

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1								
2								

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Plants									
Production and management technology	02	02	-	-	-	-	-	-	-
Total	02	02	-	-	-	-	-	-	-
Grand total (Horticulture)	10	10	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	01	01							
Soil and Water Conservation	02	02							
Integrated Nutrient Management	02	02							
Production and use of organic inputs	02	02							
Management of Problematic soils	01	01							
Micro nutrient deficiency in crops	-	-							
Nutrient Use Efficiency	02	02							
Soil and Water Testing	01	01							
Total	11	11							
IV Livestock Production and Management									
Dairy Management	-	-							
Poultry Management	02	02							
Disease Management	-	-							
Feed management	01	01							
Production of quality animal products	-	-							
Total	03	03							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	4	4	20	80	100	10	30	40	140
Design and development of low/minimum cost diet	2	2	0	20	20	0	10	10	30
Designing and development for high nutrient efficiency diet	1	1	0	20	20	0	10	10	30
Minimization of	1	1	0	20	20	0	10	10	30

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST				Grand Total
			Male	Female	Total	Male	Female	Total		
nutrient loss in processing										
Gender mainstreaming through SHGs	1	1	5	20	20	0	10	10		35
Value addition	2	2	0	20	20	0	10	10		30
Income generation activities for empowerment of rural Women	1	1	0	20	20	0	10	10		30
Location specific drudgery reduction technologies	2	2	5	20	20	0	10	10		35
Women and child care	1	1	0	20	20	0	10	10		30
Total										
VI Agril. Engineering										
Total										
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Total										
VIII Fisheries										
Integrated fish farming										
Total										
IX Production of Inputs at site										
Vermi-compost production										
Organic manures production										
Total										
X Capacity Building and Group Dynamics										
Leadership development	02	02								
Group dynamics	02	02								
Formation and Management of SHGs	04	04								

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Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
through SHGs											
Any other (Pl. Specify)											
TOTAL											

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	01							
Resource Conservation Technologies	01	01							
Cropping Systems	02	02							
Crop Diversification	01	01							
Integrated Farming	-	-							
Water management	-	-							
Seed production	02	02							
Nursery management	01	01							
Integrated Crop Management	01	01							
Fodder production	-	-							
Production of organic inputs	1	1							
Total	10	10							
II Horticulture									
a) Vegetable Crops									
Nursery raising	04	04	-	-	-	-	-	-	-
Export potential vegetables	01	01	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	02	02	-	-	-	-	-	-	-
b) Fruits									
Cultivation of Fruit	02	02	-	-	-	-	-	-	-
Management of young plants/orchards	02	02	-	-	-	-	-	-	-
Export potential of ornamental plants	01	01	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	02	02	-	-	-	-	-	-	-
d) Plantation crops	02	02	-	-	-	-	-	-	-
e) Tuber crops	02	02	-	-	-	-	-	-	-
f) Spices	04	04	-	-	-	-	-	-	-
g) Medicinal and	04	04	-	-	-	-	-	-	-

Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management	-	-							
Poultry Management	02	02							
Disease Management	01	01							
Feed management	02	02							
Production of quality animal products	01	01							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	2	10	40	50	10	30	40	90
Design and development of low/minimum cost diet	2	2	0	20	20	0	10	30	30
Designing and development for high nutrient efficiency diet	1	1	0	20	20	0	10	30	30
Minimization of nutrient loss in processing	1	1	0	20	20	0	10	30	30
Gender mainstreaming through SHGs	1	1	5	20	20	0	10	35	35
Storage loss minimization techniques	2	2	0	20	20	0	10	30	30
Value addition	1	1	0	20	20	0	10	30	30
Income generation activities for empowerment of rural Women	1	1	0	20	20	0	10	30	30
Location specific drudgery reduction technologies	1	1	5	20	20	0	10	35	35
Rural Crafts	1	1	0	20	20	0	10	30	30
Women and child	1	1	0	20	20	0	10	30	30

November	Farmers & Farm women	Importance of Training and Pruning in fruit crops	01	-	-	-	-	-	-	-
April & May	Farmers & Farm women	Micro Irrigation Techniques in fruit crops	01	-	-	-	-	-	-	-
July	Farmers & Farm women	Disease free fruit saplings production technology	01	-	-	-	-	-	-	-
July-August	Farmers & Farm women	Plant propagation techniques in fruit crops	01	-	-	-	-	-	-	-
November	Farmers & Farm women	Management of young orchards	01	-	-	-	-	-	-	-
May	Farmers & Farm women	Importance of Novel Plant hormones for improving productivity and quality of fruit crops	01	-	-	-	-	-	-	-
February	Farmers & Farm women	Training on Production technology of Cucurbits	01	-	-	-	-	-	-	-
May	Farmers & Farm women	Training on good quality of seedling production of vegetables	01	-	-	-	-	-	-	-
July	Farmers & Farm women	Training on production technology of Solanaceous crops	01	-	-	-	-	-	-	-
August	Farmers & Farm women	Training on Integrated disease management	01	-	-	-	-	-	-	-

		in vegetables								
October	Farmers & Farm women	Training on production technology of major spices crop	01	-	-	-	-	-	-	-
November	Farmers & Farm women	Training on Integrated pest management in vegetables	01	-	-	-	-	-	-	-
December	Farmers & Farm women	Training on production and post harvest management of medicinal crops	01	-	-	-	-	-	-	-
July	Farmers & Farm women	Training on production technology of aromatic crops	01	-	-	-	-	-	-	-
Livestock production										
Home Science										
	Farm women & man	Training on millet processing	2	5	20	20	0	10	35	35
	Farm women	Training on Aonla Processing	1	0	20	20	0	10	30	30
	Farm women	Training on Soyabean Processing and utilization	1	0	20	20	0	10	30	30
	Farm women	Training on Nutritional garden	1	0	20	20	0	10	30	30
	Farm women & man	Training on Mushroom Production	2	5	20	20	0	10	35	35
	Farm	Training on	1	0	20	20	0	10	30	30

	women	women Drudgery								
	Farm women	Training on Low cost Food development	1	0	20	20	0	10	30	30
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
January	Farmer and farm women	Leadership Development	01							
February	Farmer and farm women	Group Dynamics	01							
March	Farmer and farm women	Formation And Management Of Shgs	01							
September	ICT	Capacity Building For Ict Application	01							
October	Farmer and farm women	Farm Activities For Empowerment Of Rural Women	01							
November	CBD	WTO and IPR Issues	01							
December	Farmer and farm Women	Azolla Production Technique	01							
Soil Science										

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
October	Farmers & Farm women	Rejuvenation of old and senile orchard	01	-	-	-	-	-	-	-
May	Farmer s & Farm women	Layout and Management of Fruit Orchards	01	-	-	-	-	-	-	-
April-May- June	Farmers & Farm women	Fruit drop management technology in orchard	01	-	-	-	-	-	-	-

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
July- August	Farmers & Farm women	Nursery management technology for fruit plants	01	-	-	-	-	-	-	-
September	Farmers & Farm women	Importance of Bordeaux paste and mixture for management of fruit crop diseases	01	-	-	-	-	-	-	-
September	Farmers & Farm women	Phytophthora management technology in Nagpur mandarin	01	-	-	-	-	-	-	-
October	Farmers & Farm women	Use of plant growth regulators in fruit crops	01	-	-	-	-	-	-	-
February	Farmers & Farm women	Management of different physiological disorders in fruit crops	01	-	-	-	-	-	-	-
July- August	Farmers & Farm women	Importance of poison bet for management of fruit fly in fruit crops	01	-	-	-	-	-	-	-
July- August	Farmers & Farm women	Good Agriculture Practices for fruit production	01	-	-	-	-	-	-	-
June	Farmers & Farm women	Training on protected cultivation of high value crops	01	-	-	-	-	-	-	-
April	Farmers & Farm women	Training on production technology of	01	-	-	-	-	-	-	-

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		turmeric and ginger								
July	Farmers & Farm women	Training on production technology of underexploited vegetables	01	-	-	-	-	-	-	-
May	Farmers & Farm women	Training on Nursery Management of horticultural crops	01	-	-	-	-	-	-	-
September	Farmers & Farm women	Training on INM in vegetables	01	-	-	-	-	-	-	-
November	Farmers & Farm women	Training on natural farming in vegetables	01	-	-	-	-	-	-	-
July	Farmers & Farm women	Training on Propagation techniques of Ornamental Plants	01	-	-	-	-	-	-	-
March	Farmers & Farm women	Training on Processing and value addition of spices	01	-	-	-	-	-	-	-
August	Farmers & Farm women	Training on protected cultivation of gerbera	01	-	-	-	-	-	-	-
October	Farmers & Farm women	Training on Processing and value addition of medicinal and aromatic crops.	01	-	-	-	-	-	-	-
October	Farmers & Farm women	Training on production technology of	01	-	-	-	-	-	-	-

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		tuber crops								
Livestock production										
Home Science										
	Farm women & man	Training on millet processing	2	5	20	25	0	10	10	35
	Farm women	Training on Maize Processing	1	0	20	20	0	10	10	30
	Farm women	Training on Soyabean Processing and utilization	1	0	20	20	0	10	10	30
	Farm women	Training on Nutritional garden	1	0	20	20	0	10	10	30
	Farm women & man	Training on Mushroom Production	2	5	20	20	0	10	10	35
	Farm women	Training on women Drudgery	1	0	20	20	0	10	10	30
	Farm women	Training on Low cost Food development	1	0	20	20	0	10	10	30
	Farm women & man	Training on Papaya processing	2	5	20	25	0	10	10	35
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
February	Farmer and farm women	Mobilization of social capital	01							
April	Farmer and farm women	Entrepreneurial development of farmers/youths	01							
June/ November	Farmer and farm women	Natural farming technique	01							
July	Farmer	Identification and	01							

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
	Farm women & man	Training on millet processing	4	5	20	25	5	10	15	40
	Farm women & man	Training on Mushroom processing	4	5	20	25	5	10	15	40
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
August	Farmer and farm women	Use of digital technology in agriculture for rural youth	01							
September	Farmer and farm women	Skill development Rural youth and women development.	01							
October	Farmer and farm women	Azolla cultivation and vermicomposting	01							
November	Farmer and farm women	Natural farming awareness Programme .	01							
December	Farmer and farm women	Kadaknath Poultry farming	01							
Soil Science										

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
June	Extension Functionaries	Good Agriculture Practices for	03	-	-	-	-	-	-	-

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Nagpur mandarin production								
July	Extension Functionaries	Natural farming techniques in vegetable	03	-	-	-	-	-	-	-
September/ November	Extension Functionaries	Integrated pest and disease management in vegetables	03	-	-	-	-	-	-	-
Livestock production										
Home Science										
	Farm women	Training on Nutritional garden	1	0	20	20	0	10	10	30
	Farm women & man	Training on millet processing	4	5	20	25	5	10	15	40
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
March	Extension Person	Training on natural farming proramme	03	-	-	-	-	-	-	-
Soil Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration n	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor ing agen
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
	-	-	-
	-	-	-
OILSEEDS	-	-	-
	-	-	-
PULSES	-	-	-
	-	-	-
VEGETABLES	-	-	-
	-	-	-
	-	-	-
	-	-	-
FLOWER CROPS	-	-	-
	-	-	-
OTHERS (Specify)	-	-	-
	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Pomegranate	Bhagwa	250
	Mango	Amrapalli, Mallika, etc.	250
SPICES	Chilli	Pusa Sadabahar	2000
	-	-	-
	-	-	-
VEGETABLES	Tomato	Arka Rakshak, Arka Samrat	3000
	Brinjal	Utkarsh	3000
	-	-	-
	-	-	-
	-	-	-
FOREST SPECIES	-	-	-
	-	-	-
	-	-	-
ORNAMENTAL CROPS	Madhukamini	-	250
	Marigold	Pusa Narangi	2000
PLANTATION CROPS	-	-	-
	-	-	-
	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS		-	-	-
1	Trichoderma	-	-	-

2	<i>Rhizobium</i>	-	-	-
3		-	-	-
BIOFERTILIZERS		-	-	-
1	Vermicompost	-	-	-
2	NADEP	-	-	-
3		-	-	-
BIO PESTICIDES		-	-	-
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-
3		-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY	POULTRY	Kadaknath	100	
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January	Quarterly	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2	-	-	-
3	-	-	-

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Jamtara	Bichhua	95 Km.
2	Ghorad	Bichhua	70 Km.
3	Medhkital	Chhindwara	20 Km.
4	Godhara	Chhindwara	25 Km.
5	Sillvani	Mohkhed	28 Km.
6	Tansara	Mohkhed	33 Km.
7	Badnoor	Mohkhed	22 Km.
8	Hathni	Chourai	55 Km.
9	Sawri	Chourai	25 Km.
10	Khand Seoni	Sausar	61 Km.
11	Bairagarh	Sausar	58 Km.
12	Govindpur	Pandhurna	80 Km.

1. No. of farm families selected per village : 150

2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2006

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture & Farmers Welfare	Convergence
Department of Horticulture & Food Processing	Convergence
Department of Animal Husbandry & Dairying	Convergence

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage
RKVY, Natural Farming, Balance use of fertilizer, etc.	Convergence

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
-	-	-

Planning for Crop Cafeteria

Total Area of Crop cafeteria : 2500 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 2069, JS 2034, RVS 2001-4, JS 335, NRS 86, JS 2029, etc.	-	2500
Groundnut		TG 17, TG 20, TG 37, TG 26, etc.	-	
Wheat	Rabi	HI 1544, HI 8759, HI 8737, MP 1201, RAJ 4236 etc.	-	2500
Chickpea		JG 36, JG 63, JG 14, RVG 202, JG 12 etc.	-	
Linseed		JLS9, JLS 27, PKDL 3, PKDL 26, PKDL 148, etc.	-	
Mustard		Pusa Tarak, Pusa Jaikisan, Giriraj, RH 725	-	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Kadaknath Poultry Unit	Kadaknath birds	250	-
Pomegranate Orchard Unit	Bhagwa	1300	-
Mango Orchard Unit	Amrapalli, Mallika, etc.	800	-
Hyponic Fodder Production Unit	Maize	12	-
Azolla Production Unit	Azolla	12	-
Fodder Production Unit	Napier, CO4, Para grass	2000	-
Nutritional Kitchen Garden	Vegetables	300	-
Zero Energy Cool Chamber Unit	Seasonal vegetables and fruits	1.0	-

ANNUAL ACTION PLAN 2023

KVK II Delakhari, Tamia, District- Chhindwara

Year of sanction: 2019

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R. C. Sharma	-	9009801134	kvktamia@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. N o.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. R. C. Sharma	Principal Scientist & Head	Horticulture	37400-67000+ AGP 10000 Basic-188200.00	18.07.2012	13.07.2022	9009801134	kvktamia@rediffmail.com	
2	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
3	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
4	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
5	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Sh. Neel Kamal Pandre	Programme Assistant	Horticulture	9300-34800 + AGP 4200 Basic-57400	10.10.2011	04.10.2022	9993419484	nk_pandre@yahoo.co.in	
9	Computer Programmer/ Programme Assistant	Sh. Rakesh Kumar Meshram	Programme Assistant	Computer Science	9300-34800 + AGP 4200 Basic-38430	19.10.2020	19.10.2020	9131039776	rakesh45@gmail.com	
10	Farm Manager	Dr. Suresh Kumar Ahirwar	Programme Assistant	Agronomy	9300-34800 + AGP 4200 Basic-59100	12.10.2011	1.01.2020	7697959476	sureshas.2007@rediffmail.com	
11	Assistant									
12	Jr. Stenographer / Comp. Operator	-	-	-	-	-	-	-	-	
13	Driver	-	-	-	-	-	-	-	-	-
14	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	Sh. Ravishankar Vishwa	Field Assistant	Commerce	Basic-25800.00	05.10.2006	02.11.2020	6260299050	rv6076500@gmail.com	

		karma								
1 6	Supporting staff	-	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha): 20

S. No.	Item	Area (ha)
1	Under Buildings-	2.0
2	Under Demonstration Units	0.4
3	Under Crops	10.0
4	Orchard/Agro-forestry	1.0
5	Others (specify)	7.6
Total		20.00

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	Construction work not started till date	-	-	-	-	-
2	Farmers Hostel	ICAR	Construction work not started till date	-	-	-	-	-
3	Staff Quarters (6)	ICAR	Construction work not started till date	-	-	-	-	-
4	Demonstration Units (2)	ICAR	Construction work not started till date	-	-	-	-	-
5	Fencing	ICAR	Construction work not started till date	-	-	-	-	-
6	Rain Water harvesting system	ICAR	Construction work not started till date	-	-	-	-	-
7	Threshing floor	ICAR	Construction work not started till date	-	-	-	-	-
8	Farm godown	ICAR	Construction work not started till date	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2020	6.80 L		In good condition
Motor Cycle 2	-	-	-	-
Bolero(Jeep)	2020	8.0	41200	In good condition
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15.07.2023
2	15.11.2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	Satpura Plateau Zone	Early maize – gram / wheat Soybean-wheat/gram Jowar – fallow Cotton – fallow Kodo / kutki / Niger – fallow Vegetables – Vegetables Mandarin Sugarcane Soybean – Vegetables Dairying

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Satpura plateau	Elevation – 950-1150 m. Average rainfall – 1145 mm (Dist.) Temperature Min – 40C, Max – 420C
2	Stony and gravelly	Shallow in depth varying from 5-15 cm with high sand percent
3	Mixed red and yellow soils	Low in nutrients content with poor water retention capacity. Soils become soft when wet and hard when dry. Depth varying from 5-20 cm
4	Sandy loam	Well drained and depth ranges from 25 to 50 cm. suitable for minor millets and pulses

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	1184.9
Forest	479.5
Waste Land	615.6

Other than cultivated area	214.5
Cultivable waste and alkaline land	17.6
Pastures	52.0
Bushes	5.0
Current Fallow	40.7
Other Fallow	30.4
Agricultural Land	555.5
Area Sown	484.0
Kharif	487.4
Rabi	348.6
Zaid	45.00
Cropping Intensity	164.39 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	12245
2	Well	99593
3	Tube well	32098
4	Ponds	7368
5	Others	18355

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep soil	Soil surface is 36 to 60 inches from a layer that retards root development	448.4
2	Medium deep soil	Soil surface is 20 to 36 inches from a layer that retards root development	79.3
3	Shallow soil	Soil surface is 10 to 20 inches from a layer that retards root development.	655.9
4	Stony and gravelly	Shallow in depth varying from 5-15 cm with high sand percent	-
5	Sandy loam	Well drained and depth ranges from 25 to 50 cm. suitable for minor millets and pulses	-
6	Mixed red and yellow soils	Low in nutrients content with poor water retention capacity. Soils become soft when wet and hard when dry. Depth varying from 5-20 cm	-
7	Light red and black soils	Soils are light in texture but poor in fertility with medium water retain. suitable for cotton, groundnut and soybean etc.	-
8	Medium Black cotton soils	Soils are very compact and tenacious and are highly retentive of soil moisture. They are highly suitable for growing Sorghum, soybean, cotton, maize, sugarcane, orange, guava and mango etc.	-

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Maize	260	1196	4600
2	Arhar	35	78.00	2250
3	Soyabean	50	75.00	1500
4	Cottan	53	136.0	2550
5	Wheat	302	1420	4700
6	Mustard	11.8	23.6	2000
7	Chickpea	50.5	106.1	2100
8	Mandarin	25000	475580 mt	20 t/ha
9	Mango	1525	22875 mt	15 t/ha
10	Potato	8707	217675 mt	25 t/ha
11	Tomato	8205	287175 mt	35 t/ha
	Cauliflower	8741	244748 mt	28 t/ha
	ChilLi	6970	139400 mt	20 t/ha

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	39.2	23.3	9.97
Feb, 22	0.3	27.38	11.7
Mar, 22	5.5	34.53	17.09
Apr, 22	0.0	40.66	22.44
May, 22	0.0	41.05	24.5
Jun, 22	193.2	37.2	23.7
July, 2022	464.8	28.41	22.35
Aug., 2022	344.9	28.35	22.32
Sept., 2022	176.4	28.0	20.84
Oct. 2022	29.0	29.91	17.7
Nov. 2022	0.0	28.85	11.09
Dec. 2022	4.2	27.95	11.57

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats		 MT	 kg
Pigs Crossbred/ Indigenous		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	4070083 bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	6856.5 (ha)	668.8 ('000 tons)	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Harrai	Harrai	Bhumka,	Soybean, Pigeon Pea,		• Cropping

			Balghongra	Maize, Gram, Wheat, Vegetable	• Insect infestation • Pest infestation • Low yield • Disease infestation • Low productivity • Lack of income generation activities • Malnutrition • Much time and energy expended by farm women in agricultural work i.e. intercultural operations • Non availability of technical know-how in critical time • Poor survival of nursery • Perishability of fruits and vegetables • Low yield due to imbalance use of nutrients - Non availability of green fodder round the year	System & Plant Disease Management • Cropping System & Integrated Pest Management • Cropping System & Drudgery reduction • Cropping System, Drudgery reduction & Weed control • Value addition & processing and marketing • Awareness • Plant Disease Management • Cropping System • Cropping System & Integrated Nutrient Management • Micro Irrigation • Drainage System • Fodder Management • Cropping System & Integrated Nutrient Management • Farm Machinery Fodder Management
2	Junnardeo	Junnardeo	Chhindikamath, Tanda (Telibut)	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
3	Tamia	Tamia	Jhilpipariya, Khireti, Bhondiya pani	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
4	Amarwada	Amarwada	Kheri hamira, Bamhori, Babutola	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
5 6.	Parasia Umreth	Parasia	Kohka, Jamunbarra, Kundali Khurd Tursi Umreth	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT	FLD and CFLD

1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
08	40	04	40

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
30	900	20	700

Seed Production (Qtl.)	Planting material (Nos.)
	3000

B. Abstract of interventions to be undertaken

S . N o .	Thrust area	Crop/ Enter prise	Identified Problem	Interventions					
				Title of OFT if any	Titl e of FLD if any	Title of Trainin g if any	Title of training for extensio n personn el if any	Extensio n activities	Sup ply of seed s, plan ting mate rials etc.
1.	Varietal Evaluation	Maize	Low yield due to unsuitable & hybrid variety (Intensity above 95 %)	Assessmen t of Composite variety of Maize (JM 218)	Demonstratio n of raised bed system of soybean	Seed treatme nt, IPM, INM, IWM	Seed producti on, seed processi ng	Training , farmers' fields, krishiak Sangost hi	Seed
2.	INM	Soybe an	Low yield imbalance of use of chemical fertilizer and poor soil status (Intensity 80-90 %)	Assessmen t of promising variety of soybean JS 20-116	Demonstratio n of Nutrient management practices in soybean	Seed treatme nt, IPM, INM, IWM	Seed producti on, seed processi ng	Training , farmers' fields, krishiak Sangost hi	Seed
3.	Varietal Evaluation	Chickp ea	Low yield due to old & Unidentified variety (Intensity 50 -60 %)	Assessmen t of IPM module in chickpea	Demonstratio n of Improved variety of Chickpea (JG 24)	Seed treatme nt, IPM, INM, IWM	Seed producti on, seed processi ng	Training , farmers' fields, krishiak Sangost hi	Seed
4.	Varietal Evaluation	Wheat	Low yield due to use of unsuitable variety in semi-irrigated situation (60-70 %)	Assessmen t of heat tolerant variety of wheat - JW – 3336	Demonstratio n of improved variety of wheat JW - 3211 under semi-irrigate condition	Seed treatme nt, IPM, INM, IWM	Seed producti on, seed processi ng	Training , farmers' fields, krishiak Sangost hi	Seed

[illegible]

TOTAL	02	01	01		03	01			08

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT -1

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of promising variety of soybean JS 20-116
Problem diagnosed	Low yield due to use of old and unsuitable variety (Intensity 80-90 %)
Farmers' Practices (T1)	JS - 95 60/ JS 9305
Details of technologies selected for assessment	Use of improved variety : JS 20-116
Source of technology	JNKVV, 2021
Plot size	1 Acre
No. of farmers	05
Total cost	2700.00
Critical input	14000.00
Performance indicators: (i) Technical- yield (q/ ha) (ii) NMR (Rs/ha) (iii) Social – Employment generation	

OFT -2

Crop / Enterprise	Maize
Title of on farm trial	Assessment of composite variety of Maize (JM 218)
Problem diagnosed	Low yield due to unsuitable & hybrid variety (Intensity above 95 %)
Farmers' Practices (T1)	Use of unsuitable/hybrid variety
Details of technologies selected for assessment	Use variety -JM 218
Source of technology	JNKVV, 2020
Plot size	1 Acre
No. of farmers	05
Total cost	400.00
Critical input	2000.00
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	

OFT -3

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of heat tolerant Variety of wheat (JW 3336)
Problem diagnosed	Low yield due to use of unfavorable variety to as per climatic situation (Intensity above 95%)
Farmers' Practices (T1)	Use of unsuitable variety as per water requirement
Details of technologies selectedfor assessment	Use variety of heat tolerant variety – JW 3336
Source of technology	JNKVV, 2019
Plot size	1 Acre
No. of farmers	05
Total cost	1800.00
Critical input	9000.00
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	

OFT -4

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of IPM module in chickpea
Problem diagnosed	Indiscriminate use of pesticide to disease and pest control (int. 80-90 %)
Farmers' Practices (T1)	No use of IPM module
Details of technologies selectedfor assessment	Use of pheromone trape + light trap and sticky strip
Source of technology	IIPR Kanpur, 2018
Plot size	1 Acre
No. of farmers	05
Total cost	2000.00
Critical input	10000.00
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	

OFT-5

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of disease resistant tomato varieties Arka Rakshak & Arka Samrat
Problem diagnosed	Low yield due to higher disease incidence
Farmers' Practices	Farmer used locally available hybrid seeds of private sector
Details of technologies selectedfor assessment	T ₁ Farmer used locally available hybrid seeds of private sector
	T ₂ Triple disease resistant tomato variety Arka Rakshak / Arka Samrat
Source of technology	IIHR, Bangalore 2016
Plot size	0.4 ha
No. of farmers	05
Total cost	3000.00
Critical input	<i>Tomato F1 Hybrid variety</i>
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	

OFT-6

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of HYV variety of Onion (Bhima Shakti)	
Problem diagnosed	Low yield due to old and unadoptable variety in <i>rabi</i> season	
Farmers' Practices	Use of old variety of Onion Nasik red	
Details of technologies selected for assessment	T ₁	Use of old variety of Onion Nasik red
	T ₂	Use of Improved variety of Bhima shakti
Source of technology	IIHR (2010)	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	3000.00	
Critical input	Improved onion variety	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation		

OFT-7

Crop / Enterprise	Mango	
Title of on farm trial	Assessment of foliar application of PGR and micronutrients against fruit drop and improved fruit quality of Mango	
Problem diagnosed	Fruit drop due to hormonal imbalance, yield loss	
Farmers' Practices	No use of PGR and Micronutrient	
Details of technologies selected for assessment	T ₁	No use of PGR and Micronutrient
	T ₂	Foliar application of NAA 10 ppm on fruit setting + Foliar application of B (0.1%) and Zn (0.1%) at flower bud differentiation, fruit set and marble stage
Source of technology	ICAR-CISH, Lucknow 2014	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	2000.00	
Critical input	Application of PGR and micronutrient	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation		

OFT-8

Crop / Enterprise	Potato	
Title of on farm trial	Assessment of HYV of potato Kufri Chipsona 3/ Kufri Chipsona 4	
Problem diagnosed	Farmers use old varieties, Production loss	
Farmers' Practices	Use of local available old variety kufri Jyoti	
Details of technologies selected for assessment	T ₁	Use of local available old variety kufri Jyoti
	T ₂	Kufri Chipsona 3 or Kufri Chipsona 4
Source of technology	ICAR-CPRI, Shimla, HP 2006 and 2010	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	3000.00	

Critical input	Improved potato variety
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Nutrient Management Practices in Soybean
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to imbalance of use of chemical fertilizer (Intensity 80-90 %)
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of 75 Kg DAP/ ha
T2 –Recommended Practice-	NPK::20:60:20 kg/ha + 25kg/ha ZnSo4
T3- Recommended Practice-	
Date of sowing:	June 2023
Date of harvesting:	Sep 2023
Source of technology:	DSR Indore, 2015
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy

Title of on-farm trial:	Assessment of composite variety of Maize
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to unsuitable & hybrid variety (Intensity above 95 %)
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of unsuitable/hybrid variety
T2 –Recommended Practice-	Use variety -JM 218
T3- Recommended Practice-	
Date of sowing:	June 2023
Date of harvesting:	Sep 2023
Source of technology:	JNKVV, 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Semi – irrigated Variety of wheat (JW 3211)
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to variety (Intensity above 95 %)
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of unsuitable variety as per water requirement
T2 –Recommended Practice-	Use variety – JW 3211
T3- Recommended Practice-	
Date of sowing:	Nov 2023
Date of harvesting:	March 2024
Source of technology:	JNKVV, 2015

Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Improved variety of black gram (IPU 13-1/IPU 10-26
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Old variety : T -9
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old variety : T -9
T2 –Recommended Practice-	Use of improved variety :IPU 13-1/IPU 10-26
T3- Recommended Practice-	
Date of sowing:	June 2023
Date of harvesting:	August 2023
Source of technology:	IIPR Kanpur, 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Black Gram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of disease resistant tomato varieties Arka Rakshak & Arka Samrat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to higher disease incidence.

Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer used locally available hybrid seeds of private sector
T2 –Recommended Practice-	T2- Triple disease resistant tomato variety Arka Rakshak / Arka Samrat
T3- Recommended Practice-	
Date of sowing:	Oct 2023
Date of harvesting:	Feb 2024
Source of technology:	IIHR, Bangalore- 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of HYV of potato Kufri Chipsona 3/ Kufri Chipsona 4
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Farmers use old varieties, Production loss.
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of local available old variety kufri Jyoti
T2 –Recommended Practice-	Kufri Chipsona 3 or Kufri Chipsona 4
T3- Recommended Practice-	
Date of sowing:	Nov 2023
Date of harvesting:	March 2024
Source of technology:	ICAR-CPRI, Shimla, HP 2006 and 2010
Characteristics of technology:	
Name of Crop/Enterprises:	Potato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	

Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of HYV variety of Onion (Bhima Shakti)
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old and unadoptable variety in <i>rabi</i> season
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old variety of Onion Nasik red
T2 –Recommended Practice-	Use of Improved variety of Bhima shakti
T3- Recommended Practice-	
Date of sowing:	Nov 2023
Date of harvesting:	April 2024
Source of technology:	ICAR-CPRI, Shimla, HP 2006 and 2010
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of foliar application of PGR and micronutrients against fruit drop and improved fruit quality of Mango
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Fruit drop due to hormonal imbalance, yield loss
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	

T1 – Farmers Practice-	No use of PGR and Micronutrient
T2 –Recommended Practice-	Foliar application of NAA 10 ppm on fruit setting + Foliar application of B (0.1%) and Zn (0.1%) at flower bud differentiation, fruit set and marble stage.
T3- Recommended Practice-	
Date of sowing:	Feb 2024
Date of harvesting:	May2024
Source of technology:	ICAR-CISH, Lucknow 2014
Characteristics of technology:	
Name of Crop/Enterprises:	Mango
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	CP	Demonstration of raised bed system of soybean	Seed	Kharif	2.0	05	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
2	Soybean	INM	Demonstration of Nutrient management practices in soybean	Bio agent	Kharif	2.0	05	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
3	Chickpea	VR	Demonstration of Improved variety of Chickpea (JG 24)	Seed	Rabi	2.0	05	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
4	Wheat	VR	Demonstration of improved variety of wheat JW - 3211 under semi-irrigate condition	Seed	Rabi	2.0	05	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
5	Little millets	VR	Demonstration of improved variety of little millets (Jawahar Kutki - 4)	Improved variety	Kharif 2023	10.0	25	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
6	Kodo millets		Demonstration of line sowing method in <i>kodo</i> millets	Line sowing	Kharif 2023	10.0	25	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
7	Ginger	IDM	Demonstration of Integrated Disease Management practices against rhizome rot of ginger		Kharif 2003	0.4	05	Yield (qt./ha,) B:C Ratio
8	Potato	HOV	Demonstration on performance of Integrated Nutrient Management with biofertilizers in Potato crop		Rabi 2023-24	0.4	05	Yield (qt./ha,) B:C Ratio
9	Brinjal	IPM	Demonstration of Agniastra against shoot and fruit borer		Kharif 2023	0.4	05	Yield (qt./ha,) B:C Ratio

			in Brinjal					
10.	Chilli	IPM	Demonstration on IPM module for leaf curl disease of chilli		Rabi 2023-24	0.4	05	Yield (qt./ha,) B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Sep, Jan	80
2	Farmers Training	08	July, Aug, Dec, Jan	300
3	Media coverage	02		
4	Training for extension functionaries	-	-	-

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	--	-	-
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1.	Soybean	VR	Varietal	Seed +	Kharif	20	50	Yield (qt./ha), NMR

			assessment	Bioagents for treatment	2023			(Rs/ha), B:C Ratio
2.	Niger	VR	Varietal assessment	Seed + Bioagents for treatment	Kharif 2023	20	50	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
3.	Pegonpea	VR	Varietal assessment	Seed + Bioagents for treatment	Kharif 2023	10	25	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
4.	Chickpea	VR	Varietal assessment	Seed + Bioagents for treatment	Rabi 2023-24	20	50	Yield (qt./ha), NMR (Rs/ha), B:C Ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	Sep, Jan	150
2	Farmers Training	08	Aug, Dec	400
3	Media coverage	02	Sep, Feb	Mass
4	Training for extension functionaries	02	Aug, Jan	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	02	02	-	-	-	-	-	-	100
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	01	01	-	-	-	-	-	-	50
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Total	03	03	-	-	-	-	-	-	150
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	01	-	-	-	-	-	-	30
Protective cultivation (Green Houses, Shade Net etc.)	01	01	-	-	-	-	-	-	30

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		
Management										
Feed management	-	-	-	-	-	-	-	-	-	
Production of quality animal products	-	-	-	-	-	-	-	-	-	
Total	02	02	-	-	-	-	-	-	100	
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	
Value addition										
Income generation activities for empowerment of rural Women	00	00	-	-	-	-	-	-	00	
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	
Women and child care	-	-	-	-	-	-	-	-	-	
Total	0	0	-	-	-	-	-	-	00	
VI Agril. Engineering										
Total	-	-	-	-	-	-	-	-	-	
VII Plant Protection	-	-	-	-	-	-	-	-	-	
Integrated Pest Management	-	-	-	-	-	-	-	-	-	
Integrated Disease Management	-	-	-	-	-	-	-	-	-	
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-	
Production of bio control agents and bio	00	00	-	-	-	-	-	-	00	

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
(C) Extension Personnel	-	-	-	-	-	-	-	-	-	-	-
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	01	01	-	-	-	-	-	-	-	-	50
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	01	01	-	-	-	-	-	-	-	-	50
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	01	01	-	-	-	-	-	-	-	-	50
Production and use of organic inputs	01	01	-	-	-	-	-	-	-	-	50
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
TOTAL	04	04	-	-	-	-	-	-	-	-	200

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	06	06	-	-	-	-	-	-	260
Cropping Systems									
Crop Diversification	02	02	-	-	-	-	-	-	100
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop	02	02	-	-	-	-	-	-	100

Management									
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	10	10	-	-	-	-	-	-	340
II Horticulture									
a) Vegetable Crops	-	-	-	-	-	-	-	-	-
Nursery raising	02	02	-	-	-	-	-	-	60
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	01	01	-	-	-	-	-	-	30
b) Fruits	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	02	02							60
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	01	01	-	-	-	-	-	-	30
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	02	02	-	-	-	-	-	-	60
f) Spices	04	04	-	-	-	-	-	-	120
g) Medicinal and Aromatic Plants	01	01	-	-	-	-	-	-	30
III Soil Health and Fertility Management									
Soil fertility management	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	01	01	-	-	-	-	-	-	100

development									
Group dynamics	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	02	02							100
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
I Extension Personnel	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
20.04.2023	F&FW	Crop waste management through bio waste decomposer	01	-	-	-	-	-	-	35
25.04.2023	F&FW	Soil sample collection method	01	-	-	-	-	-	-	35
10.05.2023	F&FW	Crop residue management	01	-	-	-	-	-	-	35
15.05.2023	F&FW	Soil and water Testing	01	-	-	-	-	-	-	35
Horticulture										
25.01.2023	F&FW	Production technology of ivy gourd	01	-	-	-	-	-	-	35
10.02.2023	F&FW	Off season vegetable production through high tech horticulture	01	-	-	-	-	-	-	35

12.03.2023	F&FW	Vegetable cultivation through low tunnel poly house and mulching	01	-	-	-	-	-	-	35
20.06.2023	F&FW	Intregrated nutrient management of newly established fruit orchrd	01	-	-	-	-	-	-	35
20.10.2023	F&FW	Production technology of seed splices and the	01	-	-	-	-	-	-	35
10.11.2023	F&FW	Value addition of spices crops	01	-	-	-	-	-	-	35
Livestock production	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
2.04.2023	F&FW	Soil and water conservation Techniques	01	-	-	-	-	-	-	40

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
5.04.2023	F&FW	Soil, Water and Crop residue management in Kharif, rabi and summer	01	-	-	-	-	-	-	50
4.05.2023	F&FW	Soil fertility management: Integrated Nutrient Management in maize	01	-	-	-	-	-	-	50
15.10.2023 & 11.11.2023	F&FW	Seed production of wheat	02	-	-	-	-	-	-	100
10.4.2023	F&FW	Crop waste management through waste decomposer	01	-	-	-	-	-	-	40
11.11.2023	F&FW	Organic manure	01	-	-	-	-	-	-	40
Horticulture										
20.02.2023	F&FW	Nursery management for various vegetable crops	01	-	-	-	-	-	-	40
2.03.2023	F&FW	Nursery management of summer vegetable crops	01	-	-	-	-	-	-	40
5.04.2023	F&FW	Off season vegetable production through high tech horticulture	01	-	-	-	-	-	-	40
9.09.2023	F&FW	Vegetable cultivation through low tunnel poly house and mulching	01	-	-	-	-	-	-	40
12.08.2023	F&FW	Propagation techniques of horticultural crops	01	-	-	-	-	-	-	40
15.11.2023	F&FW	Potato production technology	01	-	-	-	-	-	-	40
25.10.2023	F&FW	Carrot and radish	01	-	-	-	-	-	-	40

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

[illegible][illegible][illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
	02	-	-	-	-	-	-	-	-	-

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
	-	-	-
	-	-	-
OILSEEDS	-	-	-
	-	-	-
PULSES	-	-	-
VEGETABLES	Brinjal	No. 1014	5000
Tomato seedling	Tomato	Arka Rakshak, Arka Samrat	10000
	Chilli	Kashi Anmol	5000
FLOWER CROPS	Marigold	Pusa Bahar, Pusa Deep	10000
OTHERS (Specify)	Mango Samplinf (Seedling)	-	25000
	Harsingar		500

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Desi	2500
	Guava	L-49	250
SPICES	Guava	Allahabadi Safeda	250
VEGETABLES	Tomato	Arka Rakshak	5000
		Atka Samrat	5000
	Chilli	Kashi Anmol	5000
	Brinjal	No. 1014	5000
FOREST SPECIES			
ORNAMENTAL CROPS	Marigold	Pusa Bahar	10000
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS		-	-	-
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-

3		-	-	-
BIOFERTILIZERS		-	-	-
1	Vermicompost	-	-	-
2	NADEP	-	-	-
3		-	-	-
BIO PESTICIDES		-	-	-
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-
3		-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
	-	-	-	-
SHEEP AND GOAT	-	-	-	-
	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January	Quarterly	5000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2	-	-	-
3	-	-	-

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	-
2	Rural Youth	-
3	In-service personnel	-
4	methodology for identifying OFTs/FLDs	-
5	Matrix ranking	-

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Jhilpipariya, Khireti Bhondiya pani	Tamia	28 36 26
2	Kohka, Jamunbarra, Kundali Khurd Tursi	Parasia	32 35 72 30
3	Bhumka Bahori	Harrai	90 85
4	Kheri hamira Bamhori, Babutola	Amarwada	105 110 135
5	Chhindikamath Tanda	Junnardeo	65 70

1. No. of farm families selected per village : 120

2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Total	-	-	-	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture & Farmers Welfare	Convergence
Department of Horticulture & Food Processing	Convergence
Department of Animal Husbandry & Dairying	Convergence

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
RKVY, Natural Farming, Balance use of fertilizer, etc.	Convergence

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK
 (NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)
Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 2500 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 2069, JS 2034, RVS 2001-4, JS 335, NRS 86, JS 2029, etc.	-	2500
Groundnut		TG 17, TG 20, TG 37, TG 26, etc.	-	
Wheat	Rabi	HI 1544, HI 8759, HI 8737, MP 1201, RAJ 4236 etc.	-	2500
Chickpea		JG 36, JG 63, JG 14, RVG 202, JG 12 etc.	-	
Linseed		JLS9, JLS 27, PKDL 3, PKDL 26, PKDL 148, etc.	-	
Mustard		Pusa Tarak, Pusa Jaikisan, Giriraj, RH 725	-	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mango Orchard	Langra, Amrapali, Malika, Dashhari	500	-
Guava Orchrd	L-49, Allahabad Safeda	500	-
Pineapple	Queen	1500	-
NAtural Farming	Jeevaamtit, Waste Decomposer		

Year of sanction: 2004

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. A.K. Shrivastava		9926236942	kvkdamoh@rediffmail.com

[illegible]

1.3 Total land with KVK (in ha): 20 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.40
2	Under Demonstration Units	0.40
3	Under Crops	14
4	Orchard/Agro-forestry	0.4
5	Others (specify)	4.0
Total		20

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2009		2000000	2010	1500	Repairing required
2	Farmers Hostel	ICAR	2009		2000000	2010	1200	Repairing required
3	Staff Quarters (6)	ICAR	2009		3000000	2010	1800	Repairing required
4	Demonstration Units (2)	ICAR	2010		1000000	2010	2000	Repairing required
5	Fencing	-	-	-	-	-	-	Required
6	Rain Water harvesting system	-	-	-	-	-	-	Required
7	Threshing floor	-	-	-	-	-	-	Required
8	Farm godown	-	-	-	-	-	-	Required

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	-	-	-	-
Motor Cycle 2	2009	45000	40000	Not working
Bolero(Jeep)	2021	800000	23000	Good
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD Projector	2007	51989	good
TV	2020	47990	good
Computer	2007, 2022	32000, 30000	good

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	12 June 2023
2	30 September 2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Soybean-Chickpea
2	AES – 2	Black gram-Wheat
3	AES – 3	Paddy-Wheat
4	AES-4	Paddy-Chickpea
5	AES -5	Black gram-Chickpea
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Black & Heavy Soil
2	AES - 2	Sandy Loam & Light Soil
3	AES – 3	Medium Black & Light Soil
4	AES – 4	Medium Black & Heavy Soil
5	AES – 5	Skeletal & Light Soil

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Damoh)

Strength	Weakness	Opportunities	Threats
• Deep and Fertile soil	• Stagnation of water	• Improve drainage system	• can not grow short duration variety

AES-2 (Patharia)

Strength	Weakness	Opportunities	Threats
• Sallow and Fertile soil	• Low water holding capacity	• Can grow short duration variety	• Need base irrigation required

AES-3 (Jabera & Tendukheda)

Strength	Weakness	Opportunities	Threats
• Heavy and Fertile soil	• Some patches of water logged condition	• Good water holding capacity	• More occurrence of insect pest in Kharif crops

AES-4 (Patera & Hatta)

Strength	Weakness	Opportunities	Threats
• Fertile & productive soil	• Some patches of water logged condition	• Improve drainage system	• More occurrence of insect pest

AES-5 (Batiyagarh & Some part of Patharia)

Strength	Weakness	Opportunities	Threats
• well drain soil	• Poor productive soil	• Successfully grow tuber crop	• Life saving irrigation needed

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	728.60
Forest	267.134
Waste Land	89.532
Other than cultivated area	399.18
Cultivable waste and alkaline land	5.92
Pastures	33.953
Bushes	28.34
Current Fallow	4.754
Other Fallow	4.852
Agricultural Land	322.6
Area Sown	322.6
Kharif	310.72
Rabi	318
Zaid	10.0
Cropping Intensity	190%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	139
2	Well	15540
3	Tube well	7372
4	Ponds	2587
5	Others	0

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep soil	Fertile and good water holding capacity	392.2
2	Medium Deep Soil	Less fertile with good water holding capacity	166.4
3	Sallow Soil	Low fertile and good drainage	169.4

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	77713	1554450	20.00
2	Maize	630	16450	26.11
3	Pigeon pea	2842	33110	7.45
4	Green gram	1000	9500	9.5
5	Soybean	89879	599490	6.67
6	Wheat	167411	4086500	25.55`
7	Chickpea	115309	1692740	18.7
8	Mustard	1094	12010	7.89

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	37	21.5	9.8
Feb, 22	0	28.6	12.6
Mar, 22	0	36.4	18.7
Apr, 22	0	42.9	24.4
May, 22	18	42.8	28.7
Jun, 22	183	40	27.8
July, 2022	223	32.5	25.5
Aug., 2022	414.5	31.2	24.5
Sept., 2022	287.5	32.5	23.8
Oct. 2022	89	33.4	20.1
Nov. 2022	0	31.9	14
Dec. 2022	0	28.2	11.5

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	471000	 MT.	 kg
Buffalo	128000	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats	58000	 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	12000	---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Damoh	Damoh	Hindoria	Soybean, Chickpea	Imbalance Dose of Fertilizer	Integrated Nutrients Management
2.	Patharia	Patharia	Bhaurasa`	Black gram,Wheat	Use of Old Variety,	Improved Variety
3.	Batiyagarh	Batiyagarh	Hingwani	Black gram,Chickpea	Insect & Pest infestation	Integrated Weed Management,
4.	Tendukheda	Tendukheda	Pateria Mal	Paddy,Wheat	Lack of farm mechanization	Agriculture mechanization, Malnutrition
5.	Tendukheda	Tendukheda	Pateria	Paddy,Wheat	Direct seeding.	Crop diversification,
6.	Patharia	Patharia	Aabukhedi	Black gram,Wheat	High weed infestation.	Availability of quality seed
7.	Batiyagarh	Batiyagarh	Rejra	Black gram,Chickpea	Unavailability of quality seed, Post harvest losses in pulses & vegetables	Soil and water conservation, Drudgery Reduction
8.	Patharia	Patharia	Sadguan	Black gram,Wheat	Poor adoption of agronomical practices and use of improved varieties.	Rainwater harvesting,
9.	Patharia	Patharia	Bamhori Chautha	Black gram,Wheat	Lack of knowledge of INM	Integrated pest management
10.	Damoh	Damoh	Bilai	Soybean, Chickpea	Integrated Disease Management	Resource Management , Farm mechanization
11.	Damoh	Damoh	Singhpur	Soybean, Chickpea	Unawareness about value addition & processing of agricultural produce	Organic Farming, Value addition of agricultural produces
12.	Hatta	Hatta	Piparia Kiran	Paddy,Chickpea	Unawareness about processing of honey	Development of rural entrepreneurship for income and employment generation like Bee Keeping and mushroom cultivation, Income generation
13.	Jabera	Jabera	Sahsna	Paddy,Wheat	Lack of rural entrepreneurship for income and employment generation, Lack of knowledge Nutritional security at household level	Nutritional security at household level and Development of nutritional garden, Promotion of organic farming along with balanced nutrition.

Priority / Thrust areas

S. No.	Particulars
1.	Improved Variety
2.	Integrated Nutrients Management
3.	Integrated Weed Management,
4.	Malnutrition
5.	Drudgery Reduction
6.	Availability of quality seed
7.	Crop diversification
8.	Rainwater harvesting
9.	Integrated pest management
10.	Farm mechanization
11.	Organic Farming
12.	Development of rural entrepreneurship for income and employment generation like Bee Keeping and mushroom cultivation
13.	Nutritional security at household level and Development of nutritional garden
14.	Promotion of organic farming along with balanced nutrition.
15.	Agriculture mechanization
16.	Value addition of agricultural produces
17.	Soil and water conservation
18.	Income generation
19.	Resource Management

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	90	22	461

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
76	1830	442	Mass

Seed Production (Qtl.)	Planting material (Nos.)
1130	38000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extensi on activities	Supply of seeds, planting materials etc.
1	Crop diversification	Sorghum/ Natural farming	Low yield due to old variety (CSH 5)	Assessment of Sorghum variety CSH 28 & CSH 30	Demonstration on Natural farming under Rice-Wheat cropping system	- One pre sowing drenching of Jeevamrutha - Seed treatment with Beejamrutha@200 ml/kg seed. - Application of Ghanjeevamrutha @800 kg/ha in two equal during sowing and at 30 DAS (after intercultural) - Mulching with crop residues @5 t/ha, - soil drenching of jeevamruth -5 times @500 l/ha at every 21 days interval from 21 to 105 days crop stage - Live mulching by pigeonpea / blackgram & mustard as intercrop with rice & wheat (2:6) - Need based application of Butter milk (Khatti Lassi) 20 ml/liter for control of fungal born diseases. - Need based application of Neemastra(5%)/Brahmastra (3%)/ Agniastra (3%)/ Deshparn Ark (3%)	- Seed treatment with Beejamrutha@200 ml/kg seed. - Need based application of Neemastra(5%)/Brahmastra (3%)/ Agniastra (3%)/ Deshparn Ark (3%)	Field Days Kisan Mela Awareness programmes	-
2	Varietal replacement	Maize,, Paddy	Low yield due to old varieties	Assessment of Maize JM 216 & PJHM 1	Demonstration on Rice variety JR 81	- Production technology of Maize - Cultivation techniques of Kharif Crops	Production technology of Millets crop	Kisan Gosthi/ Farmers Meeting	-
3	IPM and Varietal replacement	Chickpea	Low yield due to insect and pest in chickpea	Assessment of IPM in Chickpea	Demonstration on Chickpea Variety JG 24	IWM & IPM in Chickpea	Training on Natural Farming	Diagnostic Visit to farmers Fields	-
4	Crop diversification	Oat	Low net income due high cost of cultivation in traditional crop	Assessment of Oat variety Jawahar Oat 10-506	-	Production technology of Oats	Nutritional benefits of Oats	Farmers Visit to KVK	-
5	HOV	Yam (Jimikand)	Low income due to use of local variety	Assessment of production technology of elephant foot yam (Jimikand)	-	Production technology of elephant foot yam (Jimikand)	-	Exhibitions Film Shows Newspaper Coverage	-
6	Crop diversification	Custard Apple	Low income due to cultivation of Cereals, Oilseed and pulses	Assessment of production technology of Custard Apple	-	production technology of Custard Apple	-	Scientist visit to farmers field	-
7	Crop diversification & natural farming	Dragon fruit	Low income due to cultivation of Oilseed and pulses	Assessment of different planting distance in Dragon fruit cultivation under natural farming	-	- Cultivation of Dragon fruit - Natural farming	Different planting distance in Dragon fruit cultivation		-
8	HOF	Appleber	Low income due to use of local variety	Assessment of production technology of Appleber	-	Production technology of Appleber	-		-
9	Income generation	Rabi pulses	Low income of farm women due direct selling of pulse	Assessment of Value addition in Rabi pulses for income generation of farm women		Value addition in Rabi pulses for income generation of farm women	-		-

10	Value addition	Tomato	Low income of farm women due to direct selling of Tomato	Assessment of Value addition in Tomato for income generation of farm women		•Value addition in Tomato (Tomato Ketchup and Sauce by Machine) for income generation of farm women	-		-
11	Malnutrition	Sorghum	High malnutrition among farm women due to Iron and Calcium deficiency	Assessment of Sorghum food product for reduction in malnutrition among farm women		•Preparation of Sorghum processed products: Jaggery ball and Flour •Preparation of Puffed sorghum	-		-
12	Value addition	honey	Low income of farm women due to direct selling of honey products of beekeeper	Assessment of value addition in honey products for income generation of farm women		•Preparation of Mahua honey preserve •Preparation of Honey Aonla laddu	Honey production, processing, packaging and value addition		-
12	Natural Farming	wheat	High input cost of chemical fertilizer	Assessment of productivity on wheat production by using Jivamrit & Ghanjeevamrit.	Demonstration on Natural farming	•Application of Jivamrit @ 200 Lt/ Acre with irrigation. •Application of Ghanjeevamrit 1000 kg/ha	Natural farming		-
13	Natural Farming	Chickpea	Low microbial population in soil.	Assessment of Natural Farming technique in Chickpea cultivation.	Demonstration on Natural farming	•Use of Natural Farming techniques like Jivamrit •Use of Natural Farming techniques like Ghanjeevamrit	Natural farming		-
14	IDM	Tomato	Wilt disease of Tomato	Assessment of Trichoderma & Psuedomonas against wilt disease of Tomato	-	•Trichoderma & Psuedomonas against wilt disease of Tomato	-		-
15	Integrated crop management	Citrus	Low bearing local cultivar planted unorganized neither yield enough fruit nor assist in income generation from their small holdings.	Assessment of NRCC-8 variety of Citrus	-	• Production technology of Citrus	-		-
16	Varietal Assessment	Coriander	Low yield due to use of local and less yielding variety	Assessment of improved variety of coriander	-	•Production technology of improved variety of coriander	-		-
17	Integrated crop management	Pea	High rate of mortality during early sowing end of September 1 st week of October	Assessment of high yielding and temperature tolerant Pea variety	-	•Production technology of Pea	-		-
18	Precision agriculture	Drone	More labour and time consume during spray of Agro-chemicals	-	Demonstration on Drone technology for spray of Agro-chemicals i.e. nano	•Drone technology for spray of Agro-chemicals	Drone technology for spray of Agro-chemicals		-

					urea and pesticide					
19	Varietal Assessment	Guava	Low yield due to use of local variety	-	Demonstration on Guava variety Lalit	• Cultivation practices of Guava	Training and pruning of Guava Orchard			-
20	Medicinal & Aromatic	Satavar	No Satavar farming	-	Demonstration on Medicinal crop Satavar cultivation	• Satavar cultivation	Production and Processing of Satavar			-
21	HOF	Mango	Low yield due to flower and fruit drop	-	Demonstration of NAA in Mango for management of flower and fruit drop	• Flower and fruit drop management of Mango	NAA in Mango for management of flower and fruit drop			-
22	HOV & Natural Farming	Brinjal	Low microbial population in soil.	-	Demonstration on Natural farming in Brinjal	• Natural farming in Brinjal	Demonstration on Natural farming			-
23	Income generation	Mushroom	No mushroom production	-	Demonstration on Mushroom production for income generation of farm women	• Mushroom production for income generation of farm women	Mushroom production for income generation			
24	Nutritional insecurity	Nutritional garden	Mal nutrition in Farm women due to Enrichment of Micronutrients in diet	-	Demonstration on Nutritional garden for nutritional insecurity of farm family	• Nutritional garden for nutritional insecurity of farm family	Nutritional garden			-
25	Income generation	Poshtik Sattu	No value addition in millets at local level	-	Demonstration on preparation of millet based Poshtik Sattu for income generation of farm women	• preparation of millet based Poshtik Sattu for income generation of farm women	-			-
26	Income generation	Vermicompost	No waste management	-	Demonstration on Vermicompost production for income generation of farm women	• Vermicomposting through Temple waste management	Vermicomposting through waste management			-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Crop diversification	2	0	0	0	0	2	0	0	0	4
Varietal replacement	0	0	1	1	0	1	0	0	0	3
IPM	0	0	1	0	0	0	0	0	0	1
HOV	0	0	0	0	2	0	0	0	0	2
Natural Farming	1	0	1	0	1	1	0	0	0	4
IDM	0	0	0	0	1	0	0	0	0	1
Integrated crop management	0	0	0	0	1	1	0	0	0	2
Income generation	0	0	1	1	0	0	0	0	0	2
Malnutrition	1	0	0	0	0	0	0	0	0	1
Value addition	0	0	0	0	1	0	0	0	0	1
TOTAL	3	0	3	1	3	5	0	0	0	21

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

OFT-1

Crop / Enterprise	Sorghum (Major millet)	
Title of on farm trial	Assessment of Sorghum variety CSH 28 & CSH 30	
Problem diagnosed	Low yield due to old variety (CSH 5)	
Farmers' Practices	Use of old and local variety	
Details of technologies selectedfor assessment	T ₁	Use of old and local variety
	T ₂	Use of Sorghum variety CSH28
	T ₃	Use of Sorghum variety CSH 30
Source of technology	ICAR-IIMR Hyderabad 2013	
Plot size	100x40 m ²	
No. of farmers	05	
Total cost	20000	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of grain/Ear, Yield q/ha, B:C Ratio	

OFT-2

Crop / Enterprise	Maize (Major millet)
Title of on farm trial	Assessment of Maize JM 216 & (Pusa Jawahar Hybrid Maize 1)
Problem diagnosed	Low yield due to old variety (Ganga 2)
Farmers' Practices	Use of old and local variety
Details of technologies selectedfor assessment	T ₁ Use of old and local variety
	T ₂ Use of Maize variety JM 216
	T ₃ Use of Maize variety PJHM 1
Source of technology	JNKVV 2021
Plot size	100x40 m ²
No. of farmers	05
Total cost	20000
Critical input	SEED
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of grain/Ear, Yield q/ha, B:C Ratio

OFT-3

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Natural farming in Chickpea
Problem diagnosed	Low yield due to insect and pest in chickpea
Farmers' Practices	Indiscriminate use of Insecticide
Details of technologies selected for assessment	T ₁ Use of Proponophos 40 EC@ 1 liter/ha
	T ₂ Use of Emmactine Benzoate 5% SG 250 g/ha
	T ₃ Use of Pheromone Trap + Light trap+ Bird purcher
Source of technology	Natural Farming Testing Center Gurukul Kurukshetra Haryana 2021
Plot size	100x40 m ²
No. of farmers	05
Total cost	14000
Critical input	Emmactine Benzoate, Pheromone Trap, Light trap, Bird purcher
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of affected plant, Yield q/ha, No. of Pod/plant, B:C Ratio

OFT-4

Crop / Enterprise	Oat	
Title of on farm trial	Assessment of Oat variety Jawahar Oat 10-506	
Problem diagnosed	Low net income due high cost of cultivation in traditional crop	
Farmers' Practices	Cultivation of traditional crop	
Details of technologies selectedfor assessment	T ₁	Cultivation of traditional crop
	T ₂	Cultivation of Oat variety Jawahar Oat 10-506
Source of technology	JNKVV 2017	
Plot size	100x40 m ²	
No. of farmers	05	
Total cost	10000	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield q/ha, B:C Ratio	

OFT-5

Crop / Enterprise	Elephant foot yam (Jimikand)	
Title of on farm trial	Assessment of production technology of elephant foot yam (Jimikand)	
Problem diagnosed	Low income due to use of local variety	
Farmers' Practices	Use of Local variety Gola	
Details of technologies selectedfor assessment	T ₁	Use of Local variety of Jimikand
	T ₂	Improved variety of Gajedra 1
	T ₃	Improved variety of Jimikand (Shripadma)
Source of technology	ICAR – Central Tuber Crops Research Institute, Kerala 2016	
Plot size	100x20 m ²	
No. of farmers	05	
Total cost	100000	
Critical input	Corm	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Corm weight (kg/plant), yield q/ha, B:C Ratio	

OFT-6

Crop / Enterprise	Custer Apple	
Title of on farm trial	Assessment of production technology of Custer Apple	
Problem diagnosed	Low income due to cultivation of Cereals, Oilseed and pulses	
Farmers' Practices	No production of custard apple	
Details of technologies selectedfor assessment	T ₁	No production of custard apple
	T ₂	Improved variety of custard apple NMK 1
	T ₃	Improved variety of custard apple Atamoyabalanagar
Source of technology	Custard apple research station Solapur Pune 2011	
Plot size	100x20 m ²	
No. of farmers	05	
Total cost	25000	
Critical input	Plants	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant height (cm), No. of branches/plant, No. of fruit /plant , yield q/ha, B:C Ratio	

OFT-7

Crop / Enterprise	Dragon fruit	
Title of on farm trial	Assessment of different planting distance in Dragon fruit cultivation under natural farming	
Problem diagnosed	Low income due to cultivation of Oilseed and pulses	
Farmers' Practices	No cultivation of Dragon fruit	
Details of technologies selectedfor assessment	T ₁	No cultivation of Dragon fruit
	T ₂	Dragon fruit cultivation planting distance 12x6 feet with natural farming
	T ₃	Dragon fruit cultivation planting distance 12x8 feet with natural farming

Source of technology	Natural Farming Testing Center Gurukul Haryana 2021
Plot size	100x20 m ²
No. of farmers	05
Total cost	25000
Critical input	Plant
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant height @150 DAT(cm), No. of branches@150 DAT(cm /plant, Yield q/ha, B:C Ratio

OFT-8

Crop / Enterprise	Appleber
Title of on farm trial	Assessment of production technology of Appleber
Problem diagnosed	Low income due to use of local variety
Farmers' Practices	Use of Local variety Gola
Details of technologies selectedfor assessment	T ₁ Use of Local variety of Ber (Gola)
	T ₂ Improved variety of Banarasi ber
	T ₃ Appleber
Source of technology	ICAR-CIAH, Bikaner 2013
Plot size	100x20 m ²
No. of farmers	05
Total cost	25000
Critical input	Plants
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant height (cm), No. of branches/plant, No. of fruit /plant , yield q/ha, B:C Ratio

OFT-9

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of Trichoderma & Psuedomonas against wilt disease of Tomato
Problem diagnosed	Wilt disease of Tomato
Farmers' Practices	Low Yield due to wilt disease in Tomato
Details of technologies selectedfor assessment	T ₁ No use of bio agents
	T ₂ Use of Trichoderma @ 5kg/ha for soil treatment
	T ₃ Use of Psuedomonas @5kg/ha for soil treatment
Source of technology	JNKVV Jabalpur 2016
Plot size	100x20 m ²
No. of farmers	05
Total cost	8000
Critical input	Trichoderma & Psuedomonas
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Disease Incidence (%), B: C ratio , Yield q/ha

OFT-10

Crop / Enterprise	Citrus
Title of on farm trial	Assessment of NRCC-8 variety of Citrus
Problem diagnosed	Low bearing local cultivar planted unorganized neither yield enough fruit nor assist in income generation from their small holdings.
Farmers' Practices	Wider planting of traditional seeded variety, unorganized form
Details of technologies selectedfor assessment	T ₁ Wider planting of traditional seeded variety, unorganized form
	T ₂ planting of fruit crops in a spacing (5x5M), density of plant / ha = 400
Source of technology	NRCC, Nagpur 2016
Plot size	100x20 m ²
No. of farmers	05
Total cost	7500
Critical input	Plants

Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Income from intercrops 1st & 2nd year – Survival % of plants, Plant height 3rd Year No. of fruits/tree ,Fruit weight (g) & Size (cm) , Yield (q/ha), Net return (rs/ha), B:C ration, Farmers feed back

OFT-11

Crop / Enterprise	Coriander
Title of on farm trial	Assessment of improved variety of coriander
Problem diagnosed	Low yield due to use of local and less yielding variety
Farmers' Practices	local variety of coriander used by farmer
Details of technologies selected for assessment	T ₁ local variety of coriander used by farmer
	T ₂ Improved variety of Coriander "Gujrat Dhaniya 1" with recommended package of practices
Source of technology	IGKV, Raipur
Plot size	100x20 m ²
No. of farmers	05
Total cost	10000
Critical input	Seed
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Seed yield per Plant(kg), Seed yield per ha(q).

OFT-12

Crop / Enterprise	Pea
Title of on farm trial	Assessment of high yielding and temperature tolerant Pea variety
Problem diagnosed	High rate of mortality during early sowing end of September 1 st week of October
Farmers' Practices	Use of Pea variety Arkel, Azad P3
Details of technologies selected for assessment	T ₁ Use of Pea variety Arkel, Azad P3
	T ₂ Pea variety E6 suitable for early sowing
	T ₃ Pea variety Kashi Nandani Heat Tolerant
Source of technology	IIVR 2005
Plot size	100x40 m ²
No. of farmers	05
Total cost	11000
Critical input	Seed
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Survival %, No. Of Pod /plant, Plant population/m ² , Yield (q/ha)

OFT -13

1	Enterprise	Mini dal mill
2	Title of on-farm trial	Assessment of Value addition in Rabi pulses for income generation of farm women
3	Problem diagnosed	Low income of farm women due direct selling of pulse
4	Farming situation	Irrigated
5	Production system and thematic area	Soybean-Lentil/Chickpea
6	Farmers' practices	No value addition
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : No value addition : T ₂ : Value addition-Dal making by Machine
8	Source of technology	IIPR: 2018
9	No. of animals	-
10	No. of farmers	05
11	Critical input	Mini dal mill , Packaging material, Milling charges(Rs./kg)
12	Cost of input	170000
13	Total cost	200000
14	Performance indicators Observation to	

	be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milling Quantity (%) , Selling price (Rs./Kg), Income generation(%) B:C Ratio

OFT -14

1	Enterprise	Tomato Ketchup and Sauce
2	Title of on-farm trial	Assessment of Value addition in Tomato for income generation of farm women
3	Problem diagnosed	Low income of farm women due to direct selling of Tomato
4	Farming situation	Irrigated
5	Production system and thematic area	Soybean-Lentil/Chickpea
6	Farmers' practices	No value addition
7	Details of technologies selected for assessment/refinement Treatments	T1: No value addition T2: Value addition-Tomato Ketchup and Sauce by Machine
8	Source of technology	DWAR 2016
9	No. of animals	0
10	No. of farmers	05
11	Critical input	Packaging material (Ketchup and Sauce glass bottle, Preservative and Other Ingredient)
12	Cost of input	75000/- (Ketchup and Sauce machine (100 kg) price Rs. 65000)
13	Total cost	100000/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Qty. of value added product(kg), Selling price (Rs./Kg), Income generation(%) B:C Ratio

OFT -15

1	Enterprise	Malnutrition
2	Title of on-farm trial	Assessment of Sorghum food product for reduction in malnutrition among farm women
3	Problem diagnosed	High malnutrition among farm women due to Iron and Calcium deficiency
4	Farming situation	Rainfed
5	Production system and thematic area	Sorghum/Maize-Lentil/Chickpea
6	Farmers' practices	No use of sorghum food products in human diet
7	Details of technologies selected for assessment/refinement Treatments	T1: No use of sorghum food product in human diet T2: Preparation of Sorghum processed products: Jaggery ball and Flour T3: Preparation of Puffed sorghum
8	Source of technology	NIN 2020
9	No. of animals	0
10	No. of farmers	05
11	Critical input	Jaggery, Packaging material , Sorghum grain
12	Cost of input	2000
13	Total cost	2500
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Qty. of Sorghum product(kg),Body weight(Before and After) Reduction in Malnutrition(%) , Nutritional status (Before and After)

OFT -16

1	Enterprise	Value addition
2	Title of on-farm trial	Assessment of value addition in honey products for income generation of farm women
3	Problem diagnosed	Low income of farm women due to direct selling of honey products of beekeeper
4	Farming situation	Rainfed/Irrigated
5	Production system and thematic area	Soybean-Mustard , Value addition
6	Farmers' practices	Direct selling of honey products
7	Details of technologies selected for assessment/refinement Treatments	T1: No value addition T2: Preparation of Mahua honey preserve T3: Preparation of Honey Aonla laddu
8	Source of technology	CFTRI 2019
9	No. of animals	0
10	No. of farmers	05
11	Critical input	Honey, Packaging material , Raw Aonla and Mahua
12	Cost of input	2500
13	Total cost	3500
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Qty. of product(kg), Selling price(Rs/Kg) , Income generation(%)

OFT -17

1	Enterprise	Natural farming
2	Title of on-farm trial	Assessment of productivity on wheat production by using Jivamrit & Ghanjeevamrit
3	Problem diagnosed	High input cost of chemical fertilizer
4	Farming situation	Irrigated
5	Production system and thematic area	Paddy-Wheat & Natural farming
6	Farmers' practices	Use of Chemical fertilizer
7	Details of technologies selected for assessment/refinement Treatments	T1- Farmer Practice (Chemical fertilizer) T2-Application of Jivamrit @ 200 Lt/ Acre with irrigation. T3: Application of Ghanjeevamrit 1000 kg/ha
8	Source of technology	NCONF
9	No. of animals	0
10	No. of farmers	05
11	Critical input	200 Lt. capacity Drum with 2 Kg Jaggery and 1 Kg Gram flour @per trial
12	Cost of input	5000
13	Total cost	5500
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Yield and economics

OFT -18

1	Enterprise	Natural farming
2	Title of on-farm trial	Assessment of Natural Farming technique in Chickpea cultivation.
3	Problem diagnosed	Low microbial population in soil.
4	Farming situation	Irrigated, Alluvial soil under resource rich condition
5	Production system and thematic area	Soybean-Chickpea& Natural farming
6	Farmers' practices	Use of chemical fertilizers

7	Details of technologies selected for assessment/refinement Treatments	T ₁ : FP (Use of chemical fertilizers) T ₂ : Use of Natural Farming techniques like Jivamrit T ₃ : Use of Natural Farming techniques like Ghanjivamrit
8	Source of technology	National Center of organic and Natural farming –Noida
9	No. of animals	0
10	No. of farmers	05
11	Critical input	Jaggery, Gram flour, Cow urine & Cow dung.
12	Cost of input	Rs. 2000 x 5 = Rs. 10000.00
13	Total cost	5500
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Plant height No. of Tillers /Plant Yield B:C ratio

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Sorghum variety
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old variety (CSH 5)
Thematic area:	CRP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old and local variety
T2 –Recommended Practice-	Use of Sorghum variety CSH28
T3- Recommended Practice-	Use of Sorghum variety CSH 30
Date of sowing:	June-July 2023
Date of harvesting:	September-October 2023
Source of technology:	ICAR-IIMR Hyderabad 2015
Characteristics of technology:	High yielding and disease & Pest resistant
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	Sorghum cultivation suitable for scanty rainfall condition
Recommendations for Deptt. Personnel	Suitable for crop diversification
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Maize JM 216 & (Pusa Jawahar Hybrid Maize 1)
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old variety (Ganga 2)
Thematic area:	CRP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old and local variety(Ganga 2)
T2 –Recommended Practice-	Use of Maize variety JM 216
T3- Recommended Practice-	Use of Maize PJHM 1
Date of sowing:	June-July 2023
Date of harvesting:	September-October 2023
Source of technology:	JNKVV 2021
Characteristics of technology:	High yielding variety
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	suitable for scanty rainfall condition
Recommendations for Deptt. Personnel	Suitable for crop diversification
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of IPM in Chickpea
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety (CSH 5)
Thematic area:	CRP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Proponophos 40 EC@ 1 liter/ha
T2 –Recommended Practice-	Use of Emmactine Benzoate 5% SG 250 g/ha
T3- Recommended Practice-	Use of Pheromone Trap + Light trap+ Bird purcher
Date of sowing:	Oct-Nov 2023
Date of harvesting:	March 2024

Source of technology:	JNKVV 2016
Characteristics of technology:	Effective control of Cut worm and Pod borer
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	Effective control of Cut worm and Pod borer
Recommendations for Deptt. Personnel	Less use of Agro- chemical
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Oat variety Jawahar Oat 10-506
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low net income due high cost of cultivation in traditional crop
Thematic area:	CRP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of traditional crop
T2 –Recommended Practice-	Cultivation of Oat variety Jawahar Oat 10-506
T3- Recommended Practice-	-
Date of sowing:	Oct-Nov 2023
Date of harvesting:	March 2024
Source of technology:	JNKVV 2017
Characteristics of technology:	Suitable for drought condition
Name of Crop/Enterprises:	Oat
Recommendations for Farmers	Suitable for drought condition & high yielding
Recommendations for Deptt. Personnel	Suitable for crop diversification in Rabi
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of production technology of elephant foot yam (Jimikand)
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low income due to use of local variety
Thematic area:	HOV
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Local variety of Jimikand
T2 –Recommended Practice-	Improved variety of Gajedra 1
T3- Recommended Practice-	Improved variety of Jimikand (Shripadma)
Date of sowing:	June-July
Date of harvesting:	November
Source of technology:	ICAR – Central Tuber Crops Research Institute, Kerala 2016
Characteristics of technology:	High yielding Variety
Name of Crop/Enterprises:	Elephant foot yam (Jimikand)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of production technology of Custer Apple
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low income due to cultivation of Cereals, Oilseed and pulses
Thematic area:	HOF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No production of custard apple
T2 –Recommended Practice-	Improved variety of custard apple NMK 1
T3- Recommended Practice-	Improved variety of custard apple Atamoyabalanagar
Date of sowing:	June-July
Date of harvesting:	October- November
Source of technology:	Custard apple research station Solapur Pune 2016
Characteristics of technology:	

Name of Crop/Enterprises:	Custer Apple
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of different planting distance in Dragon fruit cultivation under natural farming
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low income due to cultivation of Oilseed and pulses
Thematic area:	HOF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No cultivation of Dragon fruit
T2 –Recommended Practice-	Dragon fruit cultivation planting distance 12x6 feet with natural farming
T3- Recommended Practice-	Dragon fruit cultivation planting distance 12x8 feet with natural farming
Date of sowing:	October-November
Date of harvesting:	October-December
Source of technology:	Natural Farming Testing Center Gurukul Haryana 2021
Characteristics of technology:	
Name of Crop/Enterprises:	Dragon fruit
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of production technology of Appleber
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low income due to cultivation of Oilseed and pulses
Thematic area:	HOF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Local variety of Ber (Gola)
T2 –Recommended Practice-	Improved variety of Banarasi ber
T3- Recommended Practice-	Appleber
Date of sowing:	June-July
Date of harvesting:	February-March
Source of technology:	ICAR-CIAH, Bikaner 2013
Characteristics of technology:	High Yielding variety
Name of Crop/Enterprises:	Appleber
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Trichoderma & Psuedomonas against wilt disease of Tomato
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to wilt disease in Tomato
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of bio agents
T2 –Recommended Practice-	Use of Trichoderma @ 5kg/ha for soil treatment
T3- Recommended Practice-	Use of Psuedomonas @5kg/ha for soil treatment
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of NRCC-8 variety of Citrus
Year/Season:	Kharif 2023
Farming situation:	Irrigated

Problem diagnosis:	Low bearing local cultivar planted unorganized neither yield enough fruit nor assist in income generation from their small holdings.
Thematic area:	Integrated crop management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Wider planting of traditional seeded variety, unorganized form
T2 –Recommended Practice-	planting of fruit crops in a spacing (5x5M), density of plant / ha = 400
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	NRCC, Nagpur 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Citrus
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of improved variety of coriander
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local and less yielding variety
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	local variety of coriander used by farmer
T2 –Recommended Practice-	Improved variety of Coriander "Gujrat Dhaniya 1" with recommended package of practices.
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	coriander
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/	Horticulture

Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of high yielding and temperature tolerant Pea variety
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	High rate of mortality during early sowing end of September 1 st week of October
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Pea variety Arkel, Azad P3
T2 –Recommended Practice-	Pea variety E6 suitable for early sowing
T3- Recommended Practice-	Pea variety Kashi Nandani Heat Tolerant
Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR 2005
Characteristics of technology:	Early flowering, high yielding, temperature tolerant, resistant to leaf minor and pod borer
Name of Crop/Enterprises:	Pea
Recommendations for Farmers	Temperature tolerant variety, resistant to leaf minor and pod borer
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Sorghum food product for reduction in malnutrition among farm women
Year/Season:	Kharif 2023
Problem diagnosis:	High malnutrition among farm women due to Iron and Calcium deficiency
Thematic area: (Focus area in DFI and nutri smart initiatives)	malnutrition
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of sorghum food product in human diet
T2 –Recommended Practice-	Preparation of Sorghum processed products: Jaggary ball, Flour and Puffed sorghum
Source of technology:	NIN 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Sorghum food product
Farming situation:	-
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Title of on-farm trial:	Assessment of value addition in honey products for income generation of farm women
Year/Season:	Kharif & Rabi 2023
Problem diagnosis:	Low income of farm women due to direct selling of honey products of beekeeper
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No value addition
T2 –Recommended Practice-	Preparation of Mahua honey preserve & Honey Aonla laddu
Source of technology:	NIN 2020
Characteristics of technology:	
Name of Crop/Enterprises:	honey products
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Title of on-farm trial:	Assessment of Value addition in Rabi pulses for income generation of farm women
Year/Season:	Rabi 2023
Problem diagnosis:	Low income of farm women due direct selling of pulses
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No value addition
T2 –Recommended Practice-	Value addition-Dal making by Machine
Source of technology:	IIPR: 2018
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Title of on-farm trial:	Assessment of Value addition in Tomato for income generation of farm women
Year/Season:	Rabi 2023
Problem diagnosis:	Low income of farm women due direct selling of Tomato
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No value addition
T2 –Recommended Practice-	Value addition-Tomato Ketchup and Sauce by Machine
Source of technology:	DWAR 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato Ketchup and Sauce
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Title of on-farm trial:	Assessment of productivity on wheat production by using Jivamirit & Ghanjeevamrit
Year/Season:	Kharif & Rabi 2023
Problem diagnosis:	High input cost of chemical fertilizer
Thematic area: (Focus area in DFI and nutri smart initiatives)	Natural farming
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Farmer Practice (Chemical fertilizer)
T2 –Recommended Practice-	Application of Jivamrit @ 200 Lt/ Acre with irrigation & Application of Ghanjeevamrit 1000 kg/ha
Source of technology:	NCONF
Characteristics of technology:	
Name of Crop/Enterprises:	Natural farming
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Title of on-farm trial:	Assessment of Natural Farming technique in Chickpea cultivation.
Year/Season:	Rabi 2023
Problem diagnosis:	Low microbial population in soil.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Natural farming
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Farmer Practice (Chemical fertilizer)
T2 –Recommended Practice-	Application of Jivamrit & Application of Ghanjeevamrit
Source of technology:	National Center of organic and Natural farming –Noida
Characteristics of technology:	
Name of Crop/Enterprises:	Natural farming
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Paddy	Crop Production	Demonstration on Rice variety JR 81	Seed	Kharif 2023	5	12	No of ear / plant , yield q/ha
2	Rice-Wheat	Natural farming	Demonstration of Natural farming under Rice-Wheat Cropping System	Jeevamrutha, Beejamrutha, Ghanjeevamrutha, Neemastra, Brahmasra, Agniastra , Deshparn Ark	Rabi & Kharif 2023	5	12	No of ear / plant , No of pod / plant , yield q/ha
3	Chickpea	Crop Production	Demonstration on Chickpea Variety JG 24	Seed	Rabi 2023	5	12	No of pod / plant , yield q/ha
4	Wheat, Chickpea, Mustard, Pigeon Pea, Mango, Tomato	Precision agriculture	Demonstration on Drone technology for spray of Agro-chemicals i.e. nano urea and pesticide	Drone, Agro-chemicals i.e. nano urea and pesticide	Rabi 2023	2	12	Time & cost saving per ha
5	Guava	HOF	Demonstration on Guava variety Lalit	Plants	Kharif 2023	1	5	No. of fruit / plant, yield q /ha
6	Satavar	Medicinal & Aromatic	Demonstration on Medicinal crop Satavar cultivation	Seed	Kharif 2023	1	5	yield q /ha
7	Mango	HOF	Demonstration of NAA in Mango for management of flower and fruit drop	NAA @ 20 ppm	Rabi 2023	1	5	Percentage of Fruit retention (fruit set) / plant
8	Brinjal	Natural farming	Demonstration on Natural farming in Brinjal	Jeevamrutha, Beejamrutha, Ghanjeevamrutha, Neemastra, Brahmasra, Agniastra , Deshparn Ark	Rabi 2023	1	5	Number of infected fruits/plant , yield q/ha
9	Strawberry	HOF	Demonstration on Strawberry in Rabi Season	Plants	Rabi 2023	1	5	No. of Fruit/Plants, yield q/ha
10	nursery	Production & Management	Performance on soil-less nursery raising in pro-tray	Seed, pro-tray	Kharif 2023	-	10	Germination (%), Mortality (%) Net Income BC Ratio, Yield (q/ha)
11	Tomato	Production & Management	Demonstration on Planting technique of tomato during	Plants	Rabi 2023	1	5	Fruit weight(g), No. of fruit/plant, Yield/ha(q/ha), Net return, B:C ratio,

			late Rabi					Feed back , Farmers reaction
12	Mushroom	Income generation	Demonstration on Mushroom production for income generation of farm women	Spawn, Polythene bag	Kharif 2023	-	10	Production(Kg/unit), Gross return (Rs./unit), Net returns (Rs/unit), B:C ratio
13	Nutritional garden	Nutritional insecurity	Demonstration on Nutritional garden for nutritional insecurity of farm family	Seeds and seedling of vegetables, Fruit plants	Kharif & Rabi 2023	10 units	10	Production (kg/unit), Net return (Rs/unit)
14	Poshtik Sattu	Income generation	Demonstration on preparation of millet based Poshtik Sattu for income generation of farm women	Packaging material, Millet flour, Milk powder and Sugar	Rabi 2023	10 units	10	Qty. (kg/unit), Net return (Rs/unit)
15	Vermicompost	Income generation	Demonstration on Vermicompost production for income generation of farm women	Vermi portable unit, Worm	Rabi 2023	-	5	Demonstration: Qty.(kg),Selling rate(Rs/kg)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	September, February	200
2	Farmers Training	15	January to December	450
3	Media coverage	45	January to December	Mass
4	Training for extension functionaries	6	January to December	150

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Crop Production	CFLD on Soybean	Seed	Kharif 2023	20	50	Yield (q/ha)
2	Blackgram	Crop Production	CFLD on Blackgram	Seed	Kharif 2023	20	50	Yield (q/ha)
3	Green Gram	Crop Production	CFLD on Green Gram	Seed	Kharif 2023	20	50	Yield (q/ha)
4	Pigeon Pea	Crop Production	CFLD on Pigeon Pea	Seed	Kharif 2023	20	50	Yield (q/ha)
5	Chickpea	Crop Production	CFLD on Chickpea	Seed	Rabi 2023	20	50	Yield (q/ha)
6	Lentil	Crop Production	CFLD on Lentil	Seed	Rabi 2023	20	50	Yield (q/ha)
7	Mustard	Crop Production	CFLD on Mustard	Seed	Rabi 2023	20	50	Yield (q/ha)

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	7	September, October, February	350
2	Farmers Training	10	June, July, October, November	250
3	Media coverage	15	January to December	Mass
4	Training for extension functionaries	7	June, July, October, November	140

A) ON Campus

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site									
Vermi-compost production	2	2	0	40	40	0	20	20	60
Organic manures production	1	1	15	5	20	10	0	10	30
Total	3	3	15	45	60	10	20	30	90
X Capacity Building and Group Dynamics									
Leadership development	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
XI Agro-forestry	1	1	20	0	20	10	0	10	30
Total	1	1	20	0	20	10	0	10	30
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0
Grand Total	93	93	1270	610	1880	625	285	910	2790
(B) RURAL YOUTH									
Mushroom Production	2	10	20	20	40	10	10	20	60
Bee-keeping	2	10	20	20	40	10	10	20	60
Seed production	2	10	40	0	40	20	0	20	60
Planting material production	2	10	30	10	40	15	5	20	60
Vermi-culture	1	5	20	0	20	10	0	10	30
Value addition	2	10	0	40	40	0	20	20	60
Sheep and goat rearing	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0
TOTAL	11	55	130	90	220	65	45	110	330
(C) Extension Personnel									
Productivity enhancement in field crops	1	1	20	0	20	10	0	10	30
Integrated Pest Management	2	2	40	0	40	20	0	20	60
Integrated Nutrient management	2	2	40	0	40	20	0	20	60
Protected cultivation	2	2	30	10	40	15	5	20	60

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
technology									
Group Dynamics and farmers organization	1	1	20	0	20	10	0	10	30
Capacity building for ICT application	2	2	30	10	40	15	5	20	60
Livestock feed and fodder production	1	1	20	0	20	10	0	10	30
Production and use of organic inputs	1	1	20	0	20	10	0	10	30
Gender mainstreaming through SHGs	1	1	0	20	20	0	10	10	30
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0
TOTAL	13	13	220	40	260	110	20	130	390

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	4	4	80	0	80	40	0	40	120
Resource Conservation Technologies	2	2	40	0	40	20	0	20	60
Cropping Systems	2	2	40	0	40	20	0	20	60
Crop Diversification	3	3	60	0	60	30	0	30	90
Integrated Farming	4	4	60	20	80	30	10	40	120
Water management	2	2	40	0	40	20	0	20	60
Seed production	4	4	60	20	80	30	10	40	120
Nursery management	3	3	60	0	60	30	0	30	90
Integrated Crop Management	2	2	30	10	40	15	5	20	60
Fodder production	1	1	20	0	20	10	0	10	30
Production of organic inputs	1	1	20	0	20	10	0	10	30
Total	28	28	510	50	560	255	25	280	840
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1	20	0	20	10	0	10	30
Export potential vegetables	1	1	20	0	20	10	0	10	30
Protective cultivation (Green Houses, Shade Net etc.)	2	2	30	10	40	15	5	20	60
b) Fruits									
Cultivation of Fruit	2	2	30	10	40	15	5	20	60
Management of	2	2	30	10	40	15	5	20	60

young plants/orchards									
Export potential of ornamental plants	1	1	20	0	20	10	0	10	30
Propagation techniques of Ornamental Plants	1	1	20	0	20	10	0	10	30
d) Plantation crops	2	2	30	10	40	15	5	20	60
e) Tuber crops	1	1	20	0	20	10	0	10	30
f) Spices	1	1	20	0	20	10	0	10	30
g) Medicinal and Aromatic Plants	2	2	30	10	40	15	5	20	60
III Soil Health and Fertility Management									
Soil fertility management	1	1	20	0	20	10	0	10	30
Soil and Water Conservation	1	1	20	0	20	10	0	10	30
Integrated Nutrient Management	2	2	30	10	40	15	5	20	60
Production and use of organic inputs	1	1	20	0	20	10	0	10	30
Management of Problematic soils	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	1	20	0	20	10	0	10	30
Nutrient Use Efficiency	2	2	30	10	40	15	5	20	60
Soil and Water Testing	1	1	20	0	20	10	0	10	30
IV Livestock Production and Management									
Dairy Management	1	1	20	0	20	10	0	10	30
Poultry Management	0	0	0	0	0	0	0	0	0
Disease Management	1	1	20	0	20	10	0	10	30
Feed management	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	2	0	40	40	0	20	20	60
Design and development of low/minimum cost diet	1	1	0	20	20	0	10	10	30
Designing and development for high nutrient efficiency diet	1	1	0	20	20	0	10	10	30
Minimization of nutrient loss in processing	1	1	0	20	20	0	10	10	30
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	1	0	20	20	0	10	10	30
Value addition	4	4	0	80	80	0	40	40	120
Income generation activities for empowerment of	2	2	0	40	40	0	20	20	60

rural Women									
Location specific drudgery reduction technologies	2	2	0	40	40	0	20	20	60
Rural Crafts	0	0	0	0	0	0	0	0	0
Women and child care	1	1	0	20	20	0	10	10	30
Total	42	42	470	370	840	235	185	420	1260
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	2	2	30	10	40	15	5	20	60
Integrated Disease Management	1	1	20	0	20	10	0	10	30
Bio-control of pests and diseases	1	1	20	0	20	10	0	10	30
Production of bio control agents and bio pesticides	1	1	20	0	20	10	0	10	30
VIII Fisheries	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site	1	1	10	10	20	5	5	10	30
X Capacity Building and Group Dynamics									
Leadership development	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0
XI Agro-forestry	1	1	10	10	20	5	5	10	30
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0
TOTAL	7	7	110	30	140	55	15	70	210
(B) RURAL YOUTH									
Production of organic inputs	1	5	15	0	15	10	0	10	25
Sheep and goat rearing	0	0	0	0	0	0	0	0	0
TOTAL	1	5	15	0	15	10	0	10	25
(C) Extension Personnel	4	4	0	80	80	0	40	40	120
TOTAL	4	4	0	80	80	0	40	40	120

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	F &FW	Sowing drenching of Jeevamrutha	1	20	0	20	10	0	10	30
June	F &FW	Seed treatment with Beejamrutha	1	20	0	20	10	0	10	30
June	F &FW	Application of Ghanjeevamrutha	1	20	0	20	10	0	10	30
June	F &FW	Mulching with crop residues	1	20	0	20	10	0	10	30
June	F &FW	Soil drenching of jeevamruth	1	20	0	20	10	0	10	30
June	F &FW	Mulching by pigeonpea / blackgram & mustard as intercrop with rice & wheat	1	20	0	20	10	0	10	30
June	F &FW	Application of Butter milk (Khatti Lassi)	1	20	0	20	10	0	10	30
June	F &FW	Application of Neemastra, Brahmastra, Agniastra , Deshparn Ark	1	20	0	20	10	0	10	30
May	F &FW	Production technology of Maize	1	20	0	20	10	0	10	30
June	F &FW	Cultivation techniques of Kharif Crops	2	30	10	40	15	5	20	60
July-Aug	F &FW	IWM & IPM in Blackgram	1	20	0	20	10	0	10	30
July-Aug	F &FW	IWM & IPM in Green gram	1	20	0	20	10	0	10	30
July-Aug	F &FW	IWM & IPM in Soybean	1	20	0	20	10	0	10	30
June	F &FW	Production technology of Oats	1	20	0	20	10	0	10	30
September	F &FW	Cultivation techniques of Rabi Crops	2	30	10	40	15	5	20	60
Oct-Nov	F &FW	IWM & IPM in Chickpea	1	20	0	20	10	0	10	30
Oct-Nov	F &FW	IWM & IPM in Wheat	1	20	0	20	10	0	10	30
Oct-Nov	F &FW	IWM & IPM in Lentil	1	20	0	20	10	0	10	30
Horticulture										
June	F &FW	Production technology of elephant foot yam (Jimikand)	2	30	10	40	15	5	20	60
June	F &FW	production technology of Custard Apple	2	30	10	40	15	5	20	60
September	F &FW	Cultivation of Dragon fruit Natural farming	2	30	10	40	15	5	20	60
September	F &FW	Production technology of Appleber	2	30	10	40	15	5	20	60
June	F &FW	Trichoderma & Psuedomonas	2	30	10	40	15	5	20	60

		against wilt disease of Tomato								
June	F &FW	Production technology of Citrus	2	30	10	40	15	5	20	60
September	F &FW	Production technology of improved variety of coriander	2	30	10	40	15	5	20	60
September	F &FW	Production technology of Pea	2	30	10	40	15	5	20	60
June	F &FW	Production and Management technology of Spices	1	10	10	20	5	5	10	30
June	F &FW	Production and management technology of Satavar	1	10	10	20	5	5	10	30
September	F &FW	Orchard management in Guava	1	10	10	20	5	5	10	30
September	F &FW	Medicinal crop Satavar cultivation	1	10	10	20	5	5	10	30
Dec-Jan	F &FW	NAA in Mango for management of flower and fruit drop	1	10	10	20	5	5	10	30
September	F &FW	Natural farming in Brinjal	1	10	10	20	5	5	10	30
June	F &FW	soil-less nursery raising in pro-tray	1	10	10	20	5	5	10	30
Nov-Dec	F &FW	Planting technique of tomato during late Rabi	1	10	10	20	5	5	10	30
Livestock production										
April-June	F &FW	Training on Dairy Management	1	10	10	20	5	5	10	30
July-Aug	F &FW	Training on Disease Management of dairy animal	1	10	10	20	5	5	10	30
Feb-March	F &FW	Training on Feed management of dairy animal	1	10	10	20	5	5	10	30
Home Science										
Jan-Dec	F &FW	Household food security by kitchen gardening and nutrition gardening	2	0	40	40	0	20	20	60
June	F &FW	Design and development of low/minimum cost diet	1	0	20	20	0	10	10	30
May	F &FW	Designing and development for high nutrient efficiency diet	1	0	20	20	0	10	10	30
April	F &FW	Minimization of nutrient loss in processing	1	0	20	20	0	10	10	30
	F &FW	Value addition	4	0	80	80	0	40	40	120

Jan-Dec	F &FW	Income generation activities for empowerment of rural Women	4	0	80	80	0	40	40	120
June, October	F &FW	Location specific drudgery reduction technologies	2	0	40	40	0	20	20	60
June	F &FW	Women and child care management	1	0	20	20	0	10	10	30
October	F &FW	Mushroom production for income generation of farm women	1	0	20	20	0	10	10	30
March	F &FW	preparation of millet based Poshtik Sattu for income generation of farm women	1	0	20	20	0	10	10	30
September	F &FW	Vermicoposting through Temple waste management	1	0	20	20	0	10	10	30
Plant Protection										
August, November	F &FW	Integrated Pest Management	2	40	0	40	20	0	20	60
August, November	F &FW	Integrated Disease Management	2	40	0	40	20	0	20	60
August, November	F &FW	Bio-control of pests and diseases	2	40	0	40	20	0	20	60
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

2. Off Campus

Crop Production

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
	F &FW	Weed Management in Kharif crops	4	80	0	80	40	0	40	120
	F &FW	Weed Management in Rabi crops	2	40	0	40	20	0	20	60
	F &FW	Resource Conservation Technologies	2	40	0	40	20	0	20	60
	F &FW	Cropping Systems	3	60	0	60	30	0	30	90

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
	F &FW	Crop Diversification	4	60	20	80	30	10	40	120
	F &FW	Integrated Farming	2	40	0	40	20	0	20	60
	F &FW	Water management	4	60	20	80	30	10	40	120
	F &FW	Quality Seed production	3	60	0	60	30	0	30	90
	F &FW	Nursery management of vegetable	2	30	10	40	15	5	20	60
	F &FW	Integrated Crop Management	1	20	0	20	10	0	10	30
	F &FW	Fodder production	1	20	0	20	10	0	10	30
Horticulture										
September	F &FW	Nursery raising	1	20	0	20	10	0	10	30
January	F &FW	Export potential vegetables	1	20	0	20	10	0	10	30
February	F &FW	Protective cultivation (Green Houses, Shade Net etc.)	2	30	10	40	15	5	20	60
March	F &FW	Cultivation of Fruit	2	30	10	40	15	5	20	60
September	F &FW	Management of young plants/orchards	2	30	10	40	15	5	20	60
October	F &FW	Export potential of ornamental plants	1	20	0	20	10	0	10	30
November	F &FW	Propagation techniques of Ornamental Plants	1	20	0	20	10	0	10	30
June & September	F &FW	Plantation crops	2	30	10	40	15	5	20	60
May	F &FW	Tuber crops	1	20	0	20	10	0	10	30
June	F &FW	Spices	1	20	0	20	10	0	10	30
December	F &FW	Medicinal and Aromatic Plants	2	30	10	40	15	5	20	60
Livestock production	F &FW	Dairy Management	1	1	20	0	20	10	0	10
	F &FW	Disease Management	1	1	20	0	20	10	0	10
Home Science										
January	F &FW	Household food security by kitchen gardening and nutrition gardening	2	0	40	40	0	20	20	60
February	F &FW	Design and development of low/minimum cost diet	1	0	20	20	0	10	10	30
March	F &FW	Designing and	1	0	20	20	0	10	10	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		development for high nutrient efficiency diet								
September	F &FW	Minimization of nutrient loss in processing	1	0	20	20	0	10	10	30
November	F &FW	Storage loss minimization techniques	1	0	20	20	0	10	10	30
	F &FW	Value addition	4	0	80	80	0	40	40	120
December	F &FW	Income generation activities for empowerment of rural Women	2	0	40	40	0	20	20	60
January	F &FW	Location specific drudgery reduction technologies	2	0	40	40	0	20	20	60
March	F &FW	Women and child care	1	0	20	20	0	10	10	30
Plant Protection										
January	F &FW	Integrated Pest Management	2	30	10	40	15	5	20	60
February	F &FW	Integrated Disease Management	1	20	0	20	10	0	10	30
March	F &FW	Bio-control of pests and diseases	1	20	0	20	10	0	10	30
October	F &FW	Production of bio control agents and bio pesticides	1	20	0	20	10	0	10	30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
April	F &FW	Soil fertility management	1	1	20	0	20	10	0	10
June	F &FW	Soil and Water Conservation	1	1	20	0	20	10	0	10
September	F &FW	Integrated Nutrient Management	2	2	30	10	40	15	5	20
September	F &FW	Production and use of organic inputs	1	1	20	0	20	10	0	10
October	F &FW	Micro nutrient deficiency in crops	1	1	20	0	20	10	0	10
November	F &FW	Nutrient Use Efficiency	2	2	30	10	40	15	5	20
December	F &FW	Soil and Water Testing	1	1	20	0	20	10	0	10

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	DAESI diploma courses	Plant Protection	52	PF	01	32	8	0	0	32	8	40	Manage Hyderabad
2	Training on R&F, BBF in soybean and chickpea	Crop production and management	1	RY	5	13	5	5	3	17	8	25	-
3	Training on value addition in Millets	Post harvest technology and value addition	1	RY	1	13	5	5	3	17	8	25	-
4	Honey Production, processing and value addition	value addition	25	RY	5	83	14	3	0	86	14	100	National Bee board

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	442	-	-	-	-	-	-	-	-	-

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat (KVK Farm)	C 306	210
OILSEEDS	Soyabean (KVK Farm)	JS 20-98 & JS 20-116	130
PULSES	Chickpea (KVK Farm)	JG 24	90
	Black gram (Seed Hub)	Indra Pratham	200
	Chickpea (Seed Hub)	Phule Vikram	500
VEGETABLES	Fenugreek	RMT 1	0.20
	Lady finger	Pusa makhmali	0.40
	Pea	Arkil	0.30
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Pusa Nanha	500
SPICES			
	chilli	Dhisha	10000.
VEGETABLES			
	Tomato	Satyam	10000.
	Brinjal	Harit	10000.
	Cabbage	Green challenger	1000.
	Cauliflower	Mahi	1000.
FOREST SPECIES			
	Drumstick	PKM 1	500
ORNAMENTAL CROPS			
	Marigold	Tanis Ball	5000
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			1000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			200 liter
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Dairy animal	FSL	6	
SHEEP AND GOAT	Goat unit	Sirohi	8	
POULTRY				
FISHERIES	-	Rohu and Katla	5000	
Others (Specify)				

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published
Jan to Dec 2023	4	4000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD / DVD	Honey production, processing, value addition etc.	30
2			
3			

Success stories/Case studies identified for development as a case: 2 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm	PRA, line dept. and interface

	women	
2	Rural Youth	PRA and interface
3	In-service personnel	AES and line dept.
4	methodology for identifying OFTs/FLDs	PRA and interface
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Hindoria	Damoh	31 km
2	Bhaurasa`	Patharia	5 km
3	Hingwani	Batiyagarh	36 km
4	Pateria Mal	Tendukheda	33 km
5	Pateria	Tendukheda	41 km
6	Aabukhedi	Patharia	19 km
7	Rejra	Batiyagarh	38 km
8	Sadguan	Patharia	10 km
9	Bamhori Chautha	Patharia	10 km
10	Bilai	Damoh	12 km
11	Singhpur	Damoh	7 km
12	Piparia Kiran	Hatta	58 km
13	Sahsna	Jabera	81 km

1. No. of farm families selected per village : 30
2. No. of survey/PRA to be conducted: 5

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:2010

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	10	-
Water Samples	-	-	-	-
Total	1000	1000	10	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Horticulture	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Veterinary science	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Women and child development	Poshan mah celebration, malnutrition trainings,

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Training	Provide Expert for trainings
Demonstration	New & recommended technologies
Extension activities	Exhibitions, Group meetings & Mela

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK (NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes : Natural farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
July & Nov. 2023	OFT's	20
July & Nov. 2023	Demonstrations	32
Jan. to Dec. 2023	Trainings	360
Jan. to Dec. 2023	Awareness Programme	400
Jan. to Dec. 2023	Other extension activates	3460

Name of Flagship programmes : Seed Hub

Crop Category	Name of Crop	Variety	Target Production (q)	Area to be covered (ha.)
Pulse (Under Seed hub)	Black Gram (C-1)	Indra Pratham	200	10.0
Pulse (Under Seed hub)	Chickpea (C-1)	Phule Vikram	500	50

Name of Flagship programmes : Drone

Month	Activity details	Targeted Beneficiaries/Area/Coverage
July & Nov. 2023	Demonstrations	500
Jan. to Dec. 2023	Trainings	900
Jan. to Dec. 2023	Awareness Programme	1500
July & Nov. 2023	Demonstrations	500
Jan. to Dec. 2023	Other extension activates	3460

Planning for Crop Cafeteria

Total Area of Crop cafeteria: **4000 Sqm**

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 20-34, JS 20-29, JS 335, JS 95-60, JS 93-05	Oilseed	45
Blackgram	Kharif	Shekhar-2, Shekhar-3, Azad-3, PU-35, PDU-1, Pratap Urd -1	Pulses	54
Maize	Kharif	JM 216, JM 218, PHM 1	Millet	27
Sorghum	Kharif	CSH 41, CSH 25, CSH 23, CSH 18, CSH 17, CSH 16	Millet	54
Kodo	Kharif	JK 439, JK 137, JK 106, JK98, JK 48	Minor millet	45
Kutki	Kharif	JK 4, JK 8, JK 36, JK137	Minor millet	36
Paddy	Kharif	WGL 32100, PB-1509, PB-1121, Sahbhagi, MTU-1010	Cereals	45
Wheat	Rabi	MP-1142, JW 3269, GW 366, JW 3020 C-306, JW-17, JW 3288, WH 147, JW 3211, HI 3173, Sujata, Narmada-4	Cereals	108
Chickpea	Rabi	RVG-202, JG 322, JG 11, JG 74, JG 315, Vishal, JAKI 92 18, JKG-1, JG 12, JG 14	Pulses	90
Mustard	Rabi	Aravali, Pusa Agrani, Pusa Bold	Oilseed	27
Lentil	Rabi	PL 5, HUL-57, IPL 316, RVL 31	Pulses	36
Linseed	Rabi	JLS-67, JLS-73, JLS-69, JLS-66	Pulses	36

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Crop Cafeteria	Cereals, Oilseed and Pulses,	100	4.5 q
Horticulture Unit	Guava, Mango, Pomegranate, Drumstick, Mist Chamber, Green Net Shade	200	12.0 q
Nutritional Garden	Moringa, Fruits & Vegetables	100	1.0 q
Dairy Unit	Milk (HF)		1825 liter
Goat Unit	Sirohi	-	-
Medicinal and Aromatic Unit	65 type of plants are planted at campus	150	-
AWS	AWS under DAMU project	100	-
Honey Processing Unit	Honey processing and packaging	-	-
Vermicompost Unit	Portable and constructed units	-	-
Azola Unit	Two units at campus	-	-
Natural farming	Jeevamrit, Ghnjeevamrit, Beejamrit and Neemastra	-	-
NADEP	Two units at campus	-	-
Pond	Fish production and life saving irrigation	10000	10 q
Jawahar Model	Jawahar Model for vegetable production	-	-
Fodder Unit	Barseem and Napier Grass		

KVK - Dindori (M.P.)

Year of Sanction- 2003

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Harish Dixit	07644234961	9425029446	dixitharishpc@gmail.com

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha) : 39.61

S. No.	Item	Area (ha)
1	Under Buildings	4.0
2	Under Demonstration Units	1.0
3	Under Crops	30.0
4	Orchard/Agro-forestry	3.0
5	Others (specify)	1.61
Total		39.61

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2008	497.17	29.60	-	-	-
2	Farmers Hostel	ICAR	2008	305	23.41	-	-	-
3	Staff Quarters (6)	ICAR	2010	-	-	-	-	-
4	Demonstration Units (2)	ICAR	-	-	-	-	-	-
5	Fencing	ICAR	-	-	-	-	-	-
6	Rain Water harvesting system	ICAR	-	3150	9.97	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	23.04.2019	391703	568 hrs	Working
Motor Cycle 2	2005	-	58625	Almost condom
Bolero(Jeep)	29.03.2017	607468	88418	Working
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1. Over Head Projector (OHP)	2003/04	23115	Good
2. Slide Projector	2003/04	16500	Good
3. Cultivator 9 tine	2003/04	14300	Good
4. Seed Drill	2003/04	12000	Good
5. Sprinkler System	2003/04	24630	Good
6. Sprinkler Pipe	2003/04	5770	Good
7. Drip System	2003/04	49908	Good
8. Bag Closer	2003/04	3800	Good
9. Garden Tool Kit	2003/04	2070	Good
10. Hedge Scissor	2003/04	361	Good
11. Cordless Telephone	2003/04	4200	Good
12. Lawn Mover	2003/04	3315	Good
13. Fax Machine	2003/04	9934	Good
14. Fire Ex.	2003/04	1343	Good
15. LCD Projector complete set	2003/04	97377	Good
16. Inverter Battery & Trolley	2003/04	31250	Good
17. Electric Motor 3 phase, 5 hp (1 no.) & Electric Motor 3 phase, 1 hp (1 no.)	2003/04	17250	Good
18. Motor 10 hp, 3 phase complete	2003/04	35773	Good
19. Bullock drawn seed cum fertilizer drill	2007/08	5000	Good
20. Wheel hoe 1 No..	2007/08	500	Good
21. Seed treatment drum 1 No.	2007/08	1000	Good

22.Light Trap (big size) 1 No.	2007/08	1500	Good
23. Groundnut decorticator 1 No.	2007/08	1000	Good
24. Low lift pump Complete 1 No.	2007/08	3100	Good
25. Pedal operated Paddy Thresher 1 No.	2007/08	3870	Good
26. Shahadol type plough 1 No.	2007/08	900	Good
27. Touchi Gurma 1 No.	2007/08	460	Good
28.M.P. Plough 1 No.	2007/08	520	Good
29.Maize Sheller 5 nos	2007 /08	125	Good
30. Paddy Marker 1 Nos.	2008 /09	1500	Good
31. B.D. Sugarcane Ridger- 1 no.	2008 /09	900	Good
32. Cycle Hoe- 1 no.	2008 /09	530	Good
33. B.D. Bund Former – 1 no.	2008 /09	2000	Good
34. Paddy Marker – 1 no.	2008 /09	1200	Good

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	June, 2023
2	October 2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	1 – Upland	Kodo-fallow Pigeon pea-fallow Fallow-Niger Maize-fallow Maize-Toria
2	2 – Lowland	Paddy-Wheat Paddy-Gram/Lentil/Linseed Paddy-fallow

**Rabi crops depend mostly on winter rains available & irrigation resources.*

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Zone IX, Northern Eastern Hill Zone of Chhattisgarh	-Sub tropical, sub humid climate -High rainfall-1200-1350mm between June-Sept. -Occasional showers & hail storm in altitude area -Maximum rainfall is between June-August -Temp. Max. 42°C, min. 3°C -Rainfed area 97%, Irrigated area 3%
2	AES-1 Eastern Highlands	-Area 6128 sq. km -Altitude (Height) 100 m -Latitude 80.35-80.58 -Longitude 22.17-23.22 -Undulated topography -Skeletal soil -Poor pH 7.2 except at foot hills -Available N - 150-180 kg ^h ⁻¹ , P – 7-9 kg ^h ⁻¹ , K – 308-370 kg ^h ⁻¹ -Underground water table sporadic

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (name)

Strength	Weakness	Opportunities	Threats
a. Rainfall – average 1300 mm b. Scope of water conservation c. Energetic & hardworking human resources	a. Eroded & undulating topography with low water retention b. Lack of awareness and low adoption of new technology	a. Conservation of water resources b. Utilization of well drained soil with use of organic compost for vegetable cultivation c. Enough grazable land d. Scope of breed upgradation of in-discript livestock e. Immense scope of agri-based small enterprises; organic farming in specific.	a. Damage due to wild animals in forest adjoining sections b. Crop damage due to erratic rainfall pattern and extended spell c. Undulated topography with eroded soil d. Low level of awareness e. Adamant towards traditional practices

AES-2 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

AES-3 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

AES-4 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	374.879
Forest	128.340
Waste Land	30.000
Other than cultivated area	-
Cultivable waste and alkaline land	-
Pastures	15.000
Bushes	-
Current Fallow	30.000
Other Fallow	15.000
Agricultural Land	205.000
Area Sown	
Kharif	186.000
Rabi	86.000
Zaid	-
Cropping Intensity	140 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	0
2	Well	0
3	Tube well	0
4	Ponds	0
5	Others	0

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light soil	Skeletal, degraded with little water holding capacity	58%
2	Medium soil	Low water holding capacity and soil compactness on moisture loss	27%
3	Heavy soil	At foot hills	15%
4			

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	102340	2293.439	22.41
2	Maize	17750	301.75	17.00
3	Kodo	18220	94.744	5.20
4	Kutki	18000	91.8	5.10
5	Pigeon pea	0.65	30.225	6.50
6	Niger	27099	118.6776	4.24
7	Soybean	6030	68.67	10.90
8	Wheat	36400	637	17.50
9	Chickpea	18500	157.25	8.50
10	Lentil	38300	239.375	6.25
11	Linseed	6070	28.475	4.25
12	Mustard	18500	103.6	5.60

Source: Department of Agriculture, Dindori (M.P.) 2020-21

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2022	0.0		
Feb,20 22	0.0		
Mar, 2022	0.0		
Apr,2022	0.0		
May, 2022	0.0		
June, 2022	182.8		
July, 2022	344.4		
Aug., 2022	408.8		
Sept.,2022	180.6		
Oct. 2022	109.0		
Nov. 2022	0.0		
Dec. 2022	0.0		

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats		 MT	 kg
Pigs Crossbred/ Indigenous		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	2565.595 (ha)	51645.595 Q/ year	20.13 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Shahpura	Shahpura	Ghundisarai	Paddy,Wheat,Maize, Chickpea, Linseed, Mung, Groundnut, Niger	Use of local seed material, high water requirement, lack of awareness in new technology	Heavy Losses due to Infestation of Cuscuta in Niger Varietal Replacement
2	Dindori	Samanpur	Padariya	Paddy,Wheat,Maize, Chickpea, Linseed, Mung, Groundnut, Niger	Use of local seed material, high water requirement, lack of awareness in new technology	Heavy Losses due to Infestation of Cuscuta in Niger Varietal Replacement
3	Dindori	Samnapur	Mohgaon	Paddy,Wheat,Maize, Chickpea, Linseed, Mung, Groundnut, Niger, Lentil	Use of local seed material, high water requirement, lack of awareness in new technology	Varietal Replacement Heavy Losses due to Infestation of Cuscuta in Niger
4	Bajag	Karanjia	Dhanras	Paddy,Wheat,Maize, Chickpea, Linseed, Mung, Groundnut, Niger, Lentil, Soyabean, Pigeon pea	Use of local seed material, high water requirement, lack of awareness in new technology	Varietal Replacement Heavy Losses due to Infestation of Cuscuta in Niger
5	Dindori	Dindori	Roosamal	Paddy,Wheat,Maize, Chickpea, Linseed, Mung, Groundnut, Niger, Lentil, Pigeon pea	Use of local seed material, high water requirement, lack of awareness in new technology	Varietal Replacement Heavy Losses due to Infestation of Cuscuta in Niger
6	Bajag	Bajag	Kosamdeeh	Paddy,Wheat,Maize,C	Use of local seed material,	Varietal Replacement

				hickpea, Linseed, Mung, Groundnut, Niger, Lentil, Pigeon pea	high water requirement, lack of awareness in new technology	Heavy Losses due to Infestation of Cuscuta in Niger

Priority / Thrust areas

S. No.	Particulars
1.	Heavy Losses due to Infestation of Cuscuta in Niger
2.	Varietal Replacement
3.	Integrated Pest and Disease Management
4.	Lack of awareness in new technology
5.	Integrated Crop and nutrient Management
6.	Improvement in production and productivity of major crops
7.	Soil and water conservation
8.	Enhancement of profit with focus on value addition
9.	Care and Management of Household
10.	Enhancement of animal productivity by feeding and health management
11.	Poultry management and development
12.	Fodder production technology
13.	Improvement in production and productivity through introduction of improved Agriculture Implements
14.	Soil Fertility Management
15.	Weed management
16.	Community based fish farming
17.	Pond based integrated farming to decrease the cost of production and increase sustainability
18.	Feed formulation and feeding management
19.	Food safety, Marketing and value addition strategies
20.	Improvement in production and productivity through introduction of improved Agriculture Implements

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	130	16	140

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
84	2300	62	30000

Seed Production (Qtl.)	Planting material (Nos.)
362.0	250000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting material etc.
1	Integrated Pest and Disease Management	Maize	lack of awareness in new technology	Assessment of improved variety of Maize production under ridge and furrow technology	-	Production technology of maize	IPM, IDM	Training, field day	Seed, Biofertilizer
2	Integrated Crop and nutrient Management	Soybean	lack of awareness in new technology	Assessment of Improved Variety Of Soybean (JS 20 60) under Rice-wheat cropping system	-	Production technology of soybean	IPM, IDM	Training, field day	Seed Biofertilizer
3	Varietal Replacement	Wheat	lack of awareness in new technology	Assessment of Bio fertilizer (Azotobacter, PSB) with recommended dose of fertilizer in wheat (Rice-Chickpea cropping system)	-	Production technology of wheat	IPM, IDM	Training, field day	Seed Bio-fertilizer
4	Integrated Crop and nutrient Management	Moong	Fallow land in summer	Assessment of Mungbean variety MH 421 with line sowing	-	Production technology of moong	IPM, IDM	Training, field day	Seed Bio-fertilizer

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
ICM	2	1	1	0	0	0	0	0	0	4
Horticulture	0	0	0	0	4	0	0	0	0	4
IPM	1	0	2	0	1	0	0	0	0	4
TOTAL	3	1	3	0	5	0	0	0	0	12

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Production, Management and Conservation, Species diversification	0	0	0	0	0	0	04	04
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	
Title of on farm trial	
Problem diagnosed	
Farmers' Practices	
Details of technologies selected for	T ₁

assessment	T ₂	
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ :
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agro-forestry /Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of improved variety of Maize production under ridge and furrow technology
Year/Season:	Kharif/2023
Farming situation:	Limited irrigation
Problem diagnosis:	Low Yield due to Use of Broadcast Method of Sowing
Thematic area:	Resource Conservation Technology
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 : Farmer practices

T2 –Recommended Practice-	T2 : Improved variety (JM 13)
T3- Recommended Practice-	T3 : Sowing in 25 cm. spacing (Plant to Plant) + Ridges and furrow 45 cm
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2017
Characteristics of technology:	Early maturity (92-98 Days) , yield (53-67q/ha)suitable forRainfed condition and tolerant to water stress condition, More no. of cobs/Plant, low seed rate
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry /Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Improved Variety of Soybean (JS 20 60) under Rice- wheat cropping system
Year/Season:	Kharif/2023
Farming situation:	Limited irrigation
Problem diagnosis:	Low Yield due to Use of low yielding variety and low income in Rice – wheat cropping system
Thematic area:	Crop replacement
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Farmer practices
T2 –Recommended Practice-	T2: Improved variety (JS 20 60)
T3- Recommended Practice-	T3: Improved variety (JS 20 60) + Biofertilizer (Rhizobium+PSB)
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2015
Characteristics of technology:	Short duration variety (85-87 days), seed yield (22-25 q/ha),multiple resistant variety, most suitable for low and medium rainfall
Name of Crop/Enterprises:	Soybean (JS 20 60)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Bio fertilizer (Azatobacter, PSB) with recommended

	dose of fertilizer in wheat (Rice- Chickpea cropping system)
Year/Season:	Rabi/2023-24
Farming situation:	Rainfed
Problem diagnosis:	Harming low yield potential variety of wheat in comparison to Sujata.
Thematic area:	Crop Replacement
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Farmer practices
T2 –Recommended Practice-	T2: Improved variety (JW 3288) + RD (40:20:20 NPK)
T3- Recommended Practice-	T3: Improved variety + 1/3 of N apply through vermicompost , Azotobactor
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	Maintain soil fertility and supply plant nutrient, Partially irrigated (1-2), Heat tolerance and non logging, resistance to drought and rust, yield (45-47)q/ha
Name of Crop/Enterprises:	Wheat/ JW 3288 (2010)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Mungbean variety MH 421 with line sowing
Year/Season:	Zaid/2023-24
Farming situation:	Rainfed
Problem diagnosis:	Cropping intensity is very low and fallow land in summer
Thematic area:	Varietal replacement
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Farmer practices
T2 –Recommended Practice-	T2: Use of improved variety (MH 421)
T3- Recommended Practice-	T3: Improved variety (MH 421) + PGR (Liquid Psuedomonas)
Date of sowing:	
Date of harvesting:	
Source of technology:	IIPR, Kanpur 2016
Characteristics of technology:	Short duration variety (65-70 days), yield (11-12 q/ha) and resistant to yellow mosaic virus

Name of Crop/Enterprises:	Moong
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Cowpea variety Kashi Unnati and Kashi Kanchan
Year/Season:	Zaid/2023-24
Farming situation:	Semi Irrigated
Problem diagnosis:	Low yield due to use of Old/Local variety (Godavari)
Thematic area:	Varietal replacement
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 : Use of old variety/Local variety
T2 –Recommended Practice-	T2: Use of Improved Variety- Kashi Unnati
T3- Recommended Practice-	T3: Use of Improved Variety- Kashi Kanchan
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR, IIVR, 2012
Characteristics of technology:	Kashi Unnati- This is a photo-insensitive variety. Plants of this variety are dwarf and bushy, height 40-50 cm, branches 4-5 per plant, early flowering (30-35 days after sowing), first harvesting at 40-45 days after sowing, produces 40-45 pods per plant. Pods are 30-35 cm long, light green, soft, fleshy and free from parchment. The cultivar gives green pod yield of about 125-150 q/ ha. Kashi Kanchan- This is dwarf and bush type (height 50-60 cm), photo-insensitive, early flowering (40-45 days after sowing) and early picking (50-55 days after sowing) , suitable for growing in both spring-summer and rainy seasons. Pods are about 30-35 cm long, dark green, soft, fleshy and free from parchment. The cultivar gives green pod yield of about 150-175 q/ ha.
Name of Crop/Enterprises:	Cowpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-6

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Soaked Tobacco (<i>Nicotiana tabacum</i>) For the Management of Shoot and Fruit Borer in Brinjal

Year/Season:	Kharif/2023
Farming situation:	Semi Irrigated
Problem diagnosis:	High cost of inputs and ineffective pest management
Thematic area:	Integrated Pest Management ,ITK
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 : Limited use of plant protection measure
T2 –Recommended Practice-	T2: Spray of Neem oil @ 2.5 Litre/ha
T3- Recommended Practice-	T3: Spray of Soaked tobacco @ 1:10 (Tobacco & Water)
Date of sowing:	
Date of harvesting:	
Source of technology:	Cross-Sectoral Validation of Indigenous Technical Knowledge in Agriculture. Document 4. ITK Code-1417, Pp74
Characteristics of technology:	Tobacco is soaked in water in the ratio of 1:10 overnight and extracted liquid is filtered through muslin cloth. Before spraying, 1-2 teaspoonful detergent powder is mixed in the filter liquid.
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Bio-pesticides against wilt disease of Tomato
Year/Season:	Rabi/2023-24
Farming situation:	Semi irrigated
Problem diagnosis:	Low yield due to infestation of wilt
Thematic area:	Integrated Disease Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 : No use of bio-pesticides
T2 –Recommended Practice-	T2: Use of Pseudomonas @5kg/ha for soil treatment
T3- Recommended Practice-	T3: Use of Trichoderma @ 5kg/ha for soil treatment
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IIVR ,2015
Characteristics of technology:	Pseudomonas-Pseudomonas has multiple flagella. It has an extremely versatile metabolism, and can be found in the soil and in water. Trichoderma-trichoderma is a genus of fungi in the family Hypocreaceae that is present in all soils, where they are the most prevalent <u>culturable</u> fungi.

Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-8

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Onion variety Bhimashakti
Year/Season:	Rabi/2023-24
Farming situation:	Semi irrigated
Problem diagnosis:	Low yield of onion during rabi season due to use of inappropriate variety and poor management practices
Thematic area:	Varietal Evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 : Use of inappropriate variety (Laxmi) and imbalance use of fertilizers
T2 –Recommended Practice-	T2: Use of improved variety Bhimashakti
T3- Recommended Practice-	T3: Improved variety Bhimashakti with Recommended dose of fertilizer @100:50:50 NPK through organic and inorganic manures
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-DOGR, 2015
Characteristics of technology:	Red colour, round, very good storage life, bulbs mature in 130 days after transplanting during late kharif and rabi season. It is tolerant to thrips. Yield – 42-45 t/ha
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-9

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of <i>Beauveria bassiana</i> and Emamectine benzoate for the management of fall army worm in maize
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy Infestation of fall army worm
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Limited use of plant protection measures (Chlorpyrifos)
T2 –Recommended Practice-	T2: Two spray of Beauveria bassiana @ 1.0 lit/ha 15-20 DAS and second 22-27 DAS.
T3- Recommended Practice-	T3: Spray of Emamectine benzoate 5 SG @ 200 gm/ha 40-45 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR – DMR 2018 and JNKVV 201
Characteristics of technology:	Beauveria bassiana, an entomopathogenic fungus is a <u>fungus</u> that can act as a <u>parasite</u> of <u>insects</u> and kills or seriously disables them. Emamectine benzoate is a Avermectine group and Non-systemic, acts by causing insect paralysis by suppressing muscle, contact insecticide .
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-10

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Beauveria bassiana and Chlorantaniliprole for the management of Pod borer in Pigeon Pea
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Assessment of Beauveria bassiana and Chlorantaniliprole for the management of Pod borer in Pigeon Pea
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Limited use of pesticides (Chlorpyrifos)
T2 –Recommended Practice-	T2: Spray with Beauveria bassiana @ 1.0 lit/ha 40-45 DAS
T3- Recommended Practice-	T3: Spray with Chlorantaniliprole 18.5 SC @ 150 ml/ha 60-65 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIPR 2018 and JNKVV 2018
Characteristics of technology:	Beauveria bassiana, an entomopathogenic fungus is a <u>fungus</u> that can act as a <u>parasite</u> of <u>insects</u> and kills or seriously disables them. Chlorantraniliprole is an insecticide of the <u>ryanoid</u> class. Chlorantraniliprole is active on chewing pest insects primarily by ingestion and secondarily by contact
Name of Crop/Enterprises:	Pigeon Pea
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of *Agniastra (combination) against shoot and fruit borer in Brinjal.
Year/Season:	Rabi/2023-24
Farming situation:	Limited irrigation
Problem diagnosis:	Low yield and fruit quality deterioration due to shoot and fruit borer in brinjal.
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Limited use of plant protection measures
T2 –Recommended Practice-	T2: Two foliar application of NSKE 5% @ 10 kg/ha at 15 days interval .
T3- Recommended Practice-	T3: Two foliar application of Agniastra at 15 days interval
Date of sowing:	-
Date of harvesting:	-
Source of technology:	SPRI, Amrawati , 2015
Characteristics of technology:	NSKE and agniastra is a botanical (Combination) pesticide, it is suitable for the Management of shoot and fruit borer
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of <i>Beauveria bassiana</i> for the management of pod borer in chickpea
Year/Season:	Rabi/2023-24
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy Infestation of pod borer
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Limited use of plant protection measures

T2 –Recommended Practice-	T2: Spray of Neem oil (Azadiractine) 2.5 lit /ha 30-35 DAS
T3- Recommended Practice-	T3: Two spray of Beauveria bassiana @ 1.0 lit/ha 40-45 DAS and second 60-65 DAS.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, 2018
Characteristics of technology:	Beauveria bassiana, an entomopathogenic fungus is a <u>fungus</u> that can act as a <u>parasite</u> of <u>insects</u> and kills or seriously disables them
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13

Crop / Enterprise	Fisheries
Title of on farm trial	Assessment of efficacy of water probiotics on growth performance of carps
Problem diagnosed	Low fish yield and more susceptible to diseases due to non-use of probiotics
Farmers' Practices	Feeding with artificial supplementary feed (Mustard Oil Cake and rice bran at 1:1) only and no use of probiotics
Details of technologies selectedfor assessment	T ₁ Application of water probiotic (Water spell) @ 250g/ ac-m water area. Water probiotics maintain desired biochemical parameters & plankton density in water
	T ₂
Source of technology	CIFA 2009
Plot size	0.2 to 0.4 ha
No. of farmers	05 individuals/ SHG
Total cost	Probiotics - 13650/
Critical input	Pond Probiotics
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Cost of intervention. Yield (q/ha), B:C ratio, Growth rate, % of disease incidence, survival rate, pH,

OFT-14

Crop / Enterprise	Fisheries
Title of on farm trial	Assessment on performance of Zeolite as pond bottom sludges amelioration during winter in carp culture
Problem diagnosed	Low productivity due to lack of pond bottom sludges amelioration
Farmers' Practices	No application of zeolite. Rainfed -Small to Medium size pond
Details of technologies selectedfor assessment	T ₁ Zeolite as pond bottom sludges amelioration during winter in carp culture. Application of 20 Kg of Zeolite mixture with 1bag of river sand/acre in a single dose
	T ₂
Source of technology	CIFA 2005
Plot size	0.2 to 0.4 ha
No. of farmers	05 individuals/ SHG
Total cost	Rs. 14000
Critical input	Zeolite
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Survivability, Yield q/ha., Average weight of Grass carp, B:C ratio

OFT-15

Crop / Enterprise	Fisheries
Title of on farm trial	Assessment of Genetically Improved (GI) catla in composite carp culture

Problem diagnosed	Less yield from composite crap culture	
Farmers' Practices	Culture of traditional catla in composite carp culture	
Details of technologies selectedfor assessment	T1	Incorporation of GI-catla in composite carp culture with species ratio :- GI-Catla: Rohu: Mrigal:::3:4:3 @ 10000 nos/ha
	T2	
Source of technology	CIFA 2019	
Plot size	0.2 to 0.4 ha	
No. of farmers	05 individuals/ SHG	
Total cost	Rs 15750/-	
Critical input	Genetically Improved (GI) catla	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Cost of intervention. Yield (q/ha), B:C ratio, Growth rate, % of disease incidence, survival rate, pH,	

OFT-16

Crop / Enterprise	Fisheries	
Title of on farm trial	Assessment of Grow-out technology of Amur carp with IMC in earthen ponds	
Problem diagnosed	Low return from backyard ponds. Low productivity.	
Farmers' Practices	No stocking of amur carp in polyculture ponds	
Details of technologies selectedfor assessment	T1	Stocking of IMC fingerlings and Amur carp fingerling @ 4500 and 500/ha respectively; fishes will be fed with Musturd oil cake with rice bran (3:1) @ 2% of their body weight.
	T2	
Source of technology	CIFA 2009	
Plot size	0.2 to 0.4 ha	
No. of farmers	05 individuals/ SHG	
Total cost	5000/-	
Critical input	Amur carp	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Survival rate, growth rate and productivity	

Information about Extension OFT: 17

Title	Impact assessment of Farmers Field School in Integrated Cuscuta Management in Niger
Season & Year	Kharif 2023
Problem identified	Poor yield due to technical knowledge
Thematic Area	ICM- Integrated Crop Management
Farming situation	Rainfed
Name of Technology Intervention under study	Technology dissemination through FFS Farmers Field School
Farmers Practice	Niger production without using Integrated Cuscuta Management
No. of replication (Farmers)	25

Results / findings

Performance indicators/ parameters	Unit/ details
1. Change in knowledge	%

2. Level of technology adoption	Low/Medium/High
3. Percentage increase in yield	%
4. Minimization of loss due to cuscuta	%

Information about Extension OFT: 18

Title	Impact assessment of Farmers Field School in Integrated Crop Management in Chick-pea
Season & Year	Rabi 2023-24
Problem identified	Poor yield due to technical knowledge
Thematic Area	ICM- Integrated Crop Management
Farming situation	Rainfed
Name of Technology Intervention under study	Technology dissemination through FFS Farmers Field School
Farmers Practice	Chick-pea production without using Integrated Crop Management
No. of replication (Farmers)	25

Results / findings

Performance indicators/ parameters	Unit/ details
1. Change in knowledge	%
2. Level of technology adoption	Low/Medium/High
3. Percentage increase in yield	%
4. Minimization of loss due to insect and diseases	%

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	
No. of farmers/farm women involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	

Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Kodo	Integrated Crop Management	Improved variety JK 137+ Seed Treatment with Azotobacter+PSB	Seed+Biofertilizer	Kharif 2023	4.0	10	No of panicles/plant , Yield q/ha., B:C ratio
2	Kodo	Integrated Crop Management	Intercropping with Pigeonpea (6:1)for enhancing soil fertility	Seed+Biofertilizer	Kharif 2023	4.0	10	No. of panicles/plant, Yield (qt/ha), B. C. Ratio
3	Mustard	Varietal replacement	Use of Improved variety+ Seed treatment with Azotobacter 200gm/ 10 kg , Use of PSB 2.5 kg./acre, use of organic fertilizer (vermicompost	Seed+Biofertilizer+	Rabi and 2023-24	4.0	10	No. of Siliqua/plant, Yield (qt/ha), B. C. Ratio
4	Chickpea	Integrated Crop Management	Use of Improved variety + Coriander+ Seed treatment with Trichoderma Culture + Use of PSB 2.5 kg./acre+ use of organic fertilizer (vermicompost)	Seed+Biofertilizer	Rabi and 2023-24	4.0	10	No. of Pod/plant, Yield (qt/ha), B. C. Ratio
5	Little Millet	Integrated Pest Management	Management of Blister beetle through use of Light Trap, Two spray of Lambda Cyhalothrin 2.5% EC @ 1.0 lit./ha. First at 40-45 DAS and second during milking stage .	Light Trap+Chemical	Kharif 2023	2.0	05	No. of adults / plant, yield q/ha, B:C
6	Paddy	Integrated Pest Management	Management of stem borer through use of Light Trap, Two spray of Emamectin benzoate 5 SG @ 200 gm/ha. First at 40-45 DAS and second 55-60 DAS	Light Trap+Chemical	Kharif 2023	2.0	05	Dead heart %, yield q/ha, BC ratio
7	Mustard	Integrated Pest Management	Management of Aphids in Mustard Removal of affected twigs, First spray with Imidacloprid 17.8 SL @ 125 ml/ ha (30-35 DAP) and second with Thiamethoxam 25 WG 200 g/ha 45- 50	Chemical	Rabi 2023-24	2.0	05	No. of aphid /twig, Damage %, yield q/ha, BC ratio

			DAS					
8	Cauliflower	Integrated Pest Management	Management of Diamondback moth in cauliflower. First spray with Jawahar Beauveria bassiana @ 1.0 lit/ha 20-25 DAP and second with chlorantraniliprole 18.5 EC 150 ml/ha 40-45 DAP	Chemical	Rabi 2023-24	2.0	05	Damage %, yield q/ha, BC ratio
9	Onion	Varietal Evaluation	Improve variety of kharif Onion Bhimasuper with Recommended dose of fertilizer @100:50:50 NPK through organic and inorganic manures	Seed+NPK	Kharif 2023	1.0	05	Bulb weight (g), Bulb yield kg/m ² , Bulb Yield q/ha, Net Return, B:C ratio
10	Tomato	Varietal Evaluation	Use of Improved variety of Tomato Kashi Vishesh, Transplanting in raised bed with staking	Seed+NPK	Kharif 2023	1.0	05	Fruit weight (gm), fruit yield (kg/plant), No. of fruit/plant, yield (q/ha) and B:C ratio
11	Tomato	Integrated Nutrient Management	WSF (water soluble fertilizer) for productivity enhancement on Tomato	Water Soluble Fertilizer	Rabi 2023	1.0	05	Fruit weight (gm), No. of fruit/plant, yield (q/ha), Net return, and B:C ratio
12	Pea	Integrated crop management	Use of Improve variety of vegetable pea PSM-3 + seed treatment rhizobium @ 10g/kg seed + use of 1 kg of trichoderma formulation in 100 kg of FYM/ha	Seed and Biofertilizers	Rabi 2023-24	1.0	05	No. of Pods/Plant, No. of seeds/Pods, yield (q/ha), Net return and B:C ratio
13.	Fisheries	Species Diversification	Biological control of aquatic weeds by grass carp	Grass carp fingerlings	2023-24	2.0 to 3.0	05	Growth parameters of fish i.e. Growth rate, average body weight (ABW) during harvesting, FCR, B:C ratio
14	Fisheries	Resource Conservation	Fish cum Duck farming	Ducklings	2023-24	2.0 to 3.0	05	Growth parameters of fish, average body weight (ABW) during harvesting, Fish Yield, Duck meat, eggs, B:C ratio
15	Fisheries	Species Diversification	Pangasius Fish farming along with IMC	Pangasius (<i>Pangasianodon hypophthalmus</i>) Fingerling	2023-24	2.0 to 3.0	05	Growth parameters of fish, average body weight (ABW) during

								harvesting, Fish Yield, B:C ratio
16	Fisheries	Production and Management	Efficacy of liquid micronutrients in sustaining phytoplankton bloom during winter	Liquid Micronutrients	Rabi 2023-24	2.0 to 3.0	05	Plankton density (ml/50liter), Yield q/ha., B:C ratio, pond water colour, B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	December, January, March	140
2	Farmers Training	5	June, August, October, December	125
3	Media coverage	4	June, August, October, December	Mass
4	Training for extension functionaries	2	July, December	60

Details of FLD on Enterprises

Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
0	0	0	0	0	0	0	0	0

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
0	0	0	0	0	0	0	0

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Niger	Integrated Weed Managemnet	Package demonstration on Niger – Improved variety (JNC 28 JNS 30), use of Bio fertilizer, Pre-emergence application of Pendimethaline @ 2.5 lit /ha	Seed Bio fertilizer	Kharif 2023	20	50	No of Capsules /plant , % Infestation,
2	Pigeonpea	Varietal	HYV + Line	Seed	Kharif	20	50	No. of Pod/plant,

		Replcement	sowing + Seed treatment (FIR)+ Bio-Fertilizers (PSB & Trichoderma)+ Organic Insecticides (Neem oil)	Bio fertilizer	2023			Yield (qt/ha), B. C. Ratio
3	Mustard	Integrated Crop Management	HYV + Line sowing + Seed treatment + Bio-fertilizers (Trichoderma + PGR)	Seed Bio fertilizer	Rabi 2023-24	20	50	No. of Siliqua/plant, Yield (qt/ha), B. C. Ratio
4	Chickpea	Integrate d Crop Management	HYV + Line sowing + Seed treatment + Bio-fertilizers (Trichoderma + PGR)	Seed Bio fertilizer	Rabi 2023	20	50	No. of Pod/plant, Yield (qt/ha), B. C. Ratio
5	Linseed	Integrate d Crop Management	HYV + Line sowing + Seed treatment + Bio-fertilizers (Trichoderma + PGR)	Seed Bio fertilizer	Rabi 2023	20	50	No. of Pod/plant, Yield (qt/ha), B. C. Ratio

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	, December, January, March	250
2	Farmers Training	8	June August, October November, December	400
3	Media coverage	10	June August, October November December, January, March	mass
4	Training for extension functionaries	2	June,December	60

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female	Total	
management										
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	1	1	0	0	0	0	0	25	25	25
Value addition	1	1	0	0	0	0	0	25	25	25
Income generation activities for empowerment of rural Women	1	1	0	0	0	0	0	25	25	25
Location specific drudgery reduction technologies	1	1	0	0	0	0	0	25	25	25
Women and child care	0	0	0	0	0	0	0	0	0	0
Total	04	04	0	0	0	0	0	100	100	100
VI Agril. Engineering										
Total										
VII Plant Protection										
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VIII Fisheries										
Integrated fish farming	1	1	0	0	0	0	25	0	25	25
Fish cum Duck farming	1	1	0	0	0	0	25	0	25	25
Carp fry and	1	1	0	0	0	0	25	0	25	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		Total
fingerling rearing										
Freshwater Prawn culture	1	1	0	0	0	0	25	0	25	25
Pond preparation	1	1	0	0	0	0	25	0	25	25
Water quality Management in aquaculture	1	1	0	0	0	0	25	0	25	25
Fish diseases and its management	1	1	0	0	0	0	25	0	25	25
Fish Processing and Value addition	1	3	0	0	0	0	25	0	25	25
Fish cum Duck farming	1	1	0	0	0	0	25	0	25	25
On farm feed preparation	1	1	0	0	0	0	25	0	25	25
Total	10	12	0	0	0	0	250	0	250	250
IX Production of Inputs at site										
Vermi-compost production	1	1	0	0	0	15	10	25	25	25
Organic manures production	1	1	0	0	0	15	10	25	25	25
Total	2	2	0	0	0	30	20	50	50	50
X Capacity Building and Group Dynamics										
Leadership development	1	1	0	0	0	0	15	10	25	25
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	0	0	0	15	10	25	25
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
(B) RURAL YOUTH										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Seed production	01	03	0	0	0	0	15	05	20	20
Nursery management	01	03	0	0	0	0	15	05	20	20
Natural Farming	01	03	0	0	0	0	15	05	20	20

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		Total
Vermi Culture	01	03	0	0	0	0	15	05	20	20
Planting material production	01	03	0	0	0	0	15	05	20	20
Value addition	01	03	0	0	0	0	15	05	20	20
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Para extension workers	01	03	0	0	0	0	10	10	20	20
Ornamental Fish Culture	01	03	0	0	0	0	10	10	20	20
Fish Value addition	01	03	0	0	0	0	10	10	20	20
IDM	01	03	0	0	0	0	10	10	20	20
Total	10	30	0	0	0	0	130	70	200	200
(C) Extension Personnel										
Productivity enhancement in field crops	1	02	0	0	0	0	25	05	30	30
Integrated Pest Management	1	02	0	0	0	0	25	05	30	30
Bio control of pest & Diseases	1	02	0	0	0	0	25	05	30	30
Integrated Nutrient management	1	02	0	0	0	0	25	05	30	30
Protected cultivation technology	1	02	0	0	0	0	25	05	30	30
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	1	02	0	0	0	0	25	05	30	30
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	02	0	0	0	0	25	05	30	30
Gender mainstreaming through SHGs	1	02	0	0	0	0	25	05	30	30
Freshwater Prawn culture	1	1	0	0	0	0	25	05	30	30
Water quality Management in aquaculture	1	1	0	0	0	0	25	05	30	30
Any other (Pl. Specify)						0				
TOTAL	10	18	0	0	0	0	250	50	300	300

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies	1	1	0	-	0	15	10	25	25
Cropping Systems	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0
Integrated Farming	1	1	0	0	0	15	10	25	25
Water management	1	1	0	0	0	15	10	25	25
Seed production	1	1	0	0	0	15	10	25	25
Nursery management	0	0	0	0	0	0	0	0	0
Integrated Crop Management	1	1	0	0	0	15	10	25	25
Fodder production	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0
Total	05	05	0	0	0	75	50	125	125
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	02	0	0	0	30	20	50	50
Export potential vegetables	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	01	01	0	0	0	15	10	25	25
b) Fruits									
Cultivation of Fruit	01	01	0	0	0	20	05	25	25
Management of young plants/orchards	01	01	0	0	0	15	10	25	25
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0
d) Plantation crops									
e) Tuber crops	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0
Total	05	05	0	0	0	80	45	125	125
III Soil Health and Fertility Management									
Soil fertility management	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	02	02	0	0	0	40	10	50	50
Integrated Nutrient Management	01	01	0	0	0	15	10	25	25
Production and use of organic inputs	01	01	0	0	0	15	10	25	25
Management of Problematic soils	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0
Soil and Water	01	01	0	0	0	15	10	25	25

Testing									
Total	05	05	0	0	0	85	40	152	125
IV Livestock Production and Management									
Dairy Management									
Poultry Management	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	01	01	0	0	0	15	10	25	25
Storage loss minimization techniques	01	01	0	0	0	15	10	25	25
Value addition									
Income generation activities for empowerment of rural Women	01	01	0	0	0	15	10	25	25
Location specific drudgery reduction technologies	01	01	0	0	0	15	10	25	25
Rural Crafts	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0
Total	04	04	0	0	0	60	100	100	100
VI Agril. Engineering	0	0	0	0	0	0	0	0	0
VII Plant Protection	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0
Integrated Disease Management	0	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0
VIII Fisheries									
Integrated fish farming	01	01	0	0	0	15	10	25	25
Fish cum Duck farming	01	01	0	0	0	15	10	25	25
Composite fish culture	0	0	0	0	0	0	0	0	0
Pen culture of fish	0	0	0	0	0	0	0	0	0
Total	2	02	0	0	0	30	20	50	50

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duratio n in days	Number of participants						Gran d Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April	F&FW	Soil fertility management	01	0	0	0	0	0	0	25
April	F&FW	Soil & water testing	01	0	0	0	0	0	0	25
May	F&FW	Seed production	01	0	0	0	0	0	0	25
June	F&FW	Soil & water conservation	01	0	0	0	0	0	0	25
June	F&FW	Nursery management	01	0	0	0	0	0	0	25
July	F&FW	Crop Diversification	01	0	0	0	0	0	0	25
Horticulture										
Jan	F&FW	Post Harvest Management in Important Vegetables Crops	01	0	0	0	25	0	0	25
Feb	F&FW	Production Technology of Bottle gourd and Bitter gourd	01	0	0	0	25	0	0	25
Mar	F&FW	Production Technology of Cucurbitaceous Crops	01	0	0	0	25	0	0	25
Apr	F&FW	Care and management of Fruits Plants (Training, Pruning and Rejuvenation of Old Orchard)	01	0	0	0	25	0	0	25
May	F&FW	Production Technology of Turmeric and Ginger	01	0	0	0	25	0	0	25
June	F&FW	Production Technology of Tomato and other solanaceous Crops	01	0	0	0	25	0	0	25
July	F&FW	Vegetative propagation method in Fruits Plants	01	0	0	0	25	0	0	25
Aug	F&FW	Nutritional Kitchen Garden Management	01	0	0	0	25	0	0	25
Sep	F&FW	Production Technology of Cabbage and Cauliflower	01	0	0	0	25	0	0	25
Oct	F&FW	Nursery Management In vegetable Crops	01	0	0	0	25	0	0	25
Nov	F&FW	Production Technology of Onion and Garlic	01	0	0	0	25	0	0	25
Dec	F&FW	Importance of Drip/Micro irrigation	01	0	0	0	25	0	0	25
Total			12	0	0	0	300	0	300	300
Livestock production							25			

June	F&FW	Nursery pond management	01	0	0	0	25	0	0	25
July	F&FW	Fish Species selection and species diversification	01	0	0	0	25	0	0	25
September	F&FW	Water quality Management in aquaculture	01	0	0	0	25	0	0	25
October	F&FW	Fish diseases and its management	01	0	0	0	25	0	0	25
November	F&FW	On farm feed preparation	01	0	0	0	25	0	0	25
March	F&FW	Fish Processing and Value addition	03	0	0	0	25	0	0	25
Home Science										
January	F&FW	Balanced diet for sickle cell anemia	01	0	0	0	0	23	23	23
Agriculture Extension (Capacity Building and Group Dynamics)										
April	F&FW	Soil & water conservation techniques	01	0	0	0	15	10	25	25
May	F&FW	Rain water & roof water harvesting system	01	0	0	0	15	10	25	25
October	F&FW	Preparation & management of Rabi crops	01	0	0	0	15	10	25	25
January	F&FW	Vermi compost production technology	01	0	0	0	15	10	25	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	F&FW	Resource Conservation Technologies	1 days	0	0	0	0	0	0	25
September	F&FW	Weed Management	1 days	0	0	0	0	0	0	25
November	F&FW	Cropping Systems	1 days	0	0	0	0	0	0	25
October, December	F&FW	Integrated Crop Management	1 days	0	0	0	0	0	0	25
January	F&FW	Production of organic inputs	1 days	0	0	0	0	0	0	25
Livestock production										
April	F&FW	Freshwater Prawn culture	01	0	0	0	0	0	0	25
May	F&FW	Pond preparation	01	0	0	0	0	0	0	25
June	F&FW	Fish species selection and species diversification in Aquaculture	01	0	0	0	0	0	0	25
August	F&FW	Carp fry and fingerling rearing	01	0	0	0	0	0	0	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
January	F&FW	Fish cum Duck farming	01	0	0	0	0	0	0	25
February	F&FW	Integrated fish farming	01	0	0	0	0	0	0	25
Home Science										
June	F&FW	Importance of Drum stick pods and leafs	01	0	0	0	0	25	25	25
August	F&FW	Nutritional Kitchen Garden Management	01	0	0	0	0	25	25	25
February	F&FW	Backyard Poultry Farming	01	0	0	0	0	25	25	25
March	F&FW	Production technology of Vermi Compost	01	0	0	0	0	25	25	25
April	F&FW	Awareness of ICT in Agriculture	01	0	0	0	0	25	25	25
September	F&FW	Importance of Nutrition in adolescence girls , lactating and pregnant women,	01	0	0	0	0	25	25	25
July	F&FW	Importance of curry leaves for combating malnutrition	01	0	0	0	0	25	25	25
Nov	F&FW	Purification of Drinking water	01	0	0	0	0	25	25	25
Agriculture Extension (Capacity Building and Group Dynamics)										
June	F&FW	Preparation of Balanced Diet from local available Material	01	0	0	0	15	10	25	25
July	F&FW	Balance use of fertilizers	01	0	0	0	15	10	25	25
July	F&FW	Seed treatment from bio fertilizers of kharif crops	01	0	0	0	15	10	25	25
August	F&FW	Water conservation techniques	01	0	0	0	15	10	25	25
October	F&FW	Seed treatment from bio fertilizers of Rabi crops	01	0	0	0	15	10	25	25
December	F&FW	Preservation & processing of winter vegetables	01	0	0	0	15	10	25	25
January	F&FW	Precision farming	01	0	0	0	15	10	25	25
February	F&FW	Vermi compost	01	0	0	0	15	10	25	25

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
March	1	Value addition of minor millet	2	10	0	10	15	5	20	30
February	1	Natural Farming	2	10	0	10	15	5	20	30
Horticulture										
Apr	1	Production technology of Tomato and other vegetables in green house.	2	10	0	10	15	5	20	30
Oct	1	Nursery Management In vegetable Crops	2	10	0	10	15	5	20	30
Livestock production										
April	1	Polyculture of IMCs with Freshwater Prawn	01	10	0	10	15	5	20	30
June	1	Integrated Fish Culture	01	10	0	10	15	5	20	30
Home Science										
March	1	Production Technology of Mushroom	3	10	0	10	15	5	20	30
September	1	Balanced diet and importance of nutrition among woman and children	3	10	0	10	15	5	20	30
August	1	Practical orientation on ICT tools	3	10	0	10	15	5	20	30
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
IFS	IS	Productivity enhancement through IFS	02	5	5	10	10	10	20	30
ICT	IS	Capacity	02	5	5	10	10	10	20	30

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy B/S	JR 206	200
	Kodo B/S	JK 137	100
	Kutki	JK 4	100
OILSEEDS	Niger B/S	JNC 9	100
	Soybean B/S	JS 97-52	50
PULSES	Pigeon Pea	Baigani arhar	50
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	0	0	0
2	Rhizobium	0	0	0
3				
BIOFERTILIZERS				
1	Vermicompost			

2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	0	0	0	0
	0	0	0	0
SHEEP AND GOAT	0	0	0	0
	0	0	0	0
POULTRY	0	0	0	0
FISHERIES	0	0	0	0
Others (Specify)	0	0	0	0

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
2008	Quarterly	4000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	0	0	0

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Face to face contact, survey,PRA
2	Rural Youth	Face to face contact, survey,PRA
3	In-service personnel	Face to face contact, survey,
4	Methodology for identifying OFTs/FLDs	Matrix ranking ,Face to face contact, survey,PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Dhanuli	Samnapur	32 km
2	Bhalpuri	Samnapur	32 km

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2010-11

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1200	1200	20	-
Water Samples	100	100	10	-
Total	1400	1400	30	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture & Farmers Welfare	Convergence
Department of Horticulture	Convergence
Department of Veterinary	Convergence
Department of Fisheries	Convergence
Mahila evam Bal Vikas	Convergence
Tejaswini Project	Convergence

Details of linkage with ATMA / NFSM**a) Is ATMA implemented in your district**

Yes

Name of Programme	Nature of linkage
Interface	Technical support
Training	Technical support
Demonstration	Technical support

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
0	0

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
NICRA	Village-Padariya/Samnapur	100

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 30x21 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Danteshwari, Vishnubhog, Mohanbhog, Black rice, Chinnoure, Jeerashankar	-	3x2 sqm each variety
Wheat	Rabi	MP 3288, MP3382 ,JW 16, HD 1201, HD 1202, Sipani 555, Sharbati	-	2x2 sqm each variety
Chickpea	Rabi	JG 36, JG 63, JG 24, JG 322, JG 14, JG 12, JAKI 9218	-	2x2 sqm each variety
Linseed	Rabi	JLS 66, JLS 67, JLS 73	-	2x2 sqm each variety

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Crop cafeteria	Kharif , Rabi field crops and vegetables	3500	Display for Farmers and visitors
Vermicompost	Vermicompost production	30.0	For use at KVK crop cafeteria
Poultry	Kdaknath and Narmada Nidhi	9.0	Started
Fodder unit	Napier and Perennial Jowar	100.0	Dairy unit
Lac Unit	Flamengia semialata	15.0	Plantation in October
Meadow orchard	Guava L-49	100.0	Display for Farmers and visitors
Minidal Mill	TSP -Pulses	-	Processing of Dal
Natural Farming	Jeewamrat,beejamrit,agniastra, Ghanjewamrit	9.0	Started

KVK_HARDA_

Year of sanction: **October-2004**

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sandhya Mure	Krishi Vigyan Kendra, Kolipura Tappar, Harda	9424492520	kvkharda@rediffmail.ccom

1.2 Staff Position on (31th Dec.2022)

[illegible]

10	Farm Manager	Miss Pushpa Jharia	Program me Assistant	Plant Breeding & Genetics	42700-135100 (59100)	11/10/2011	12/10/2011	7909673712	pushpajharia@rediffmail.com	
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Computer Operator	Sh. Ganesh Soni	Jr. Stenographer	Arts	25300-80500 (29400)	21/03/2018	21/03/2018	8770637032	ganeshsonibarwani@gmail.com	
13	Driver	Sh. Narmada Sahu	Driver cum Mechanic	Arts	19500-62000 (32100)	08/07/2008	01/2021	9479403389	-	
14	Driver	Sh. Surendra Singh Nigwal	Driver cum Mechanic	-	19500-62000 (21900)	10/07/2018	2021	9754414713	-	
15	Supporting staff	-	-	-	-	-	-	-	-	-
16	Supporting Staff	-	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha): 14.63 ha.

S. No.	Item	Area (ha)
1	Under Buildings	0.63
2	Under Demonstration Units	1
3	Under Crops	12
4	Orchard/Agro-forestry	-
5	Others (specify) Crop Cafeteria, Nutritional Garden	1
Total		14.63

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m.)	Status of construction
1	Administrative Building	ICAR	2019	555	-	2007	555	Completed
2	Farmers Hostel	ICAR	Under Construction	305	-	Under Construction	305	Under Construction
3	Staff Quarters (6)	ICAR	Under Construction	400	-	Under Construction	400	Under Construction
4	Demonstration Units (5)	ICAR	2018	116.4	-	2018	116.4	Completed
5	Fencing	NA	-	NA	NA	NA	NA	NA
6	Rain Water harvesting system	NA	2019	-	-	-	-	NA
7	Threshing floor	NA	-	NA	NA	NA	NA	NA
8	Farm go-down	NA	-	NA	NA	NA	NA	NA

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2005	-	-	Condemnation Process has been completed
Motor Cycle 2	2006	-	-	Running Condition
Bolero (Jeep)	2019	-	-	Running Condition
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2007	-	Unserviceable
Xerox Machine	2016	-	Working
Generator	2007	-	Working
Video Camera	-	-	-
Computer, Laser Printer	2017	-	Working
UPS 600 VA	-	-	-
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	2006 & 2009	-	Working
Inverter Battery (2)	2006	-	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	Pre-Kharif, May-2023
2	Pre- Rabi, October-2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Harda	Central Narmada Valley	3	211	5,70,465	72.5%	252543	102436	1.76 ha

Land Use Pattern

Particulars	Area “000 ha”
Geographical Area(ha)	330.58
Total Cultivated Area(ha)	196.6
Total Irrigated Area(ha)	157.25
Gross cropped area(ha)	318.1
Kharif(ha)	183.9
Rabi (ha)	183.7
Summer(ha)	13.5
Agricultural waste land	-
Cropping Intensity	193

Irrigated Area with Different Sources:

S. No.	Description	Area (000 ha)
1	Canal	79.5
2	Well	30.7
3	Tube well	14.2
4	Others Rivers, Ponds etc.	16.9
Total		141.3

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Black cotton Soil	Heavy soil with high water holding capacity	146.8
2	Laom Soil	It has a balance of all plant’s nutrient	60.2
3	Sandy loam	Is very useful for famers and gardeners	125.2
4	Sandy Soil	These soils have quick water drainage	-
	Total		332.2

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (000mt)	Productivity (Q /ha)
1	Soybean	118.560	177.840	1500
2	Maize	19.700	74.860	3800
3	Wheat	100.350	501.750	5000
4	Gram	91.700	245.756	2680
5	Mung bean (Zaid)	1.150	1.380	1200

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	-	-	-
Feb, 22	-	-	-
Mar, 22	-	-	-
Apr, 22	-	-	-
May, 22	3.4	45	30
Jun, 22	-	37	27
July, 2022	688.8	30	23
Aug., 2022	431.4	29	23
Sept., 2022	148.6	29	23
Oct. 2022	81.4	31	23
Nov. 2022	-	31	19
Dec. 2022	-	-	-

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle	170334	-	-
Buffalo	240560	-	-
<i>Crossbred/ Indigenous</i>	-	-	-
Sheep	-	-	-
<i>Crossbred/ Indigenous</i>	-	-	-
Goats	50400	-	-
Pigs <i>Crossbred/ Indigenous</i>	1260	-	-
Rabbits	-	-	-
Poultry	-	-	-
Hens	70755	-	-
Turkey and others	-	-	-

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Harda	Harda Timarni Khirkiya	Balagaon Neelgarh Uwa Sontalai Kachbedi Amasel Gahal Mardanpur Mahendragaoon Baranga Handiya Sultanpur Abgaonkhurd	Soybean, Maize, Wheat, Chickpea, Summer Green Gram	Non availability of quality seed	Use of improved varieties with quality seed/planting materials
					No proper seed treatment in Kharif and rabi crops	Use of organic manure with balance fertilizer application
					Inadequate use bio-fertilizers	Proper sowing/planting method
					Lack of drainage of kharif crop	Proper water management practices
					Faulty irrigation method in Rabi crops specially in wheat	Adoption of IPM technologies in different crops
					Use of old and degraded seeds	Awareness for establishment of new orchard
					Soils deficient in N.P.S. and Zn	Popularization of improve vegetable production techniques
					Low organic carbon in soil	Improve breeds of milch animals and balance feeding
					Less availability of green fodder	More knowledge and awareness for proper storage of food grains
					Seed mixed with fertilizer in farmers practice	More income generation for rural women
					Use of high seed rate in wheat crop	Zero budget/natural farming
					Burning of wheat stubbles	

					Imbalance use of fertilizer
					Infestation of Semi looper, girdle beetle and tobacco caterpillar in soybean

Priority / Thrust areas

S. No.	Particulars
1.	Use of improved varieties with quality seed/planting materials
2.	Integrated Crop Management
3.	Popularization of Improved Vegetable Techniques.
4.	Awareness for establishment of new orchard.
5.	Use of INM and balance dose of fertilizers with micro nutrients.
6.	Use of Organic Manure.
7.	To generate self-employment and Income Sources
8.	Drudgery Reduction and efficiency enhancement of farm women through mechanization
9.	Nutrition and Health care
10.	Use of Integrated Pest Management
11.	Use of Integrated Disease Management

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
25	274	19	260

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
91	1820	102	4415

Seed Production (Qtl.)	Planting material (Nos.)
Soybean/Chick Pea	600000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Crop Production	Pigeon-Pea	Old varieties with long duration	Assessment of HY short duration Pigeon-pea Variety Pusa 16	Demonstration on bio - fortified variety of Durum Wheat JW - 1358 for nutritional security	Integrated Disease Management	Integrated Disease Management	Field Day	-
2	IWM	Wheat	Low yield of Wheat due to poor weed management	Assessment of Clodinafop propagyl 15%+ metsulfuron Methyl for Weed management in Wheat	Demonstration on weeding tools “grubber weeder” in vegetable crops	Bio-control of pests and diseases	Integrated Pest Management	Kisan Mela	-
3	Crop Production	Mustard	Crop Diversification	Assessment of High Yielding Variety of Mustard (RH- 749)	Demonstration on effectiveness of Moringa leaf powder for anaemic adolescent girls (13 - 15 years)	Integrated Pest Management	Soil fertility management	Kisan Ghosthi	-
4	Resource Conservation	Mung Bean	Loss of organic matter and soil fertility	Assessment of Zero tillage Cultivation Practices for Mung bean cultivation	Demonstration on nutritional kitchen garden for nutritional security of farm families	Soil fertility management	Production and use of organic inputs	Exhibition	-
5	Crop Diversification	Kodo Millet	Need of Crop Diversification	Assessment of High Yielding Variety of Kodo Millet JK-137	Demonstration on STV based INM in hybrid Maize (line sown) under irrigated condition	Soil and Water Conservation Integrated Nutrient Management	Value addition Income generation activities for empowerment of rural	Film Show Method Demonstrations	-
6	Integrated Nutrient Management	Soybean	Low yield of Soybean due to Imbalance Fertilizer dose	Assessment of STV based Integrated Nutrient management in Soybean (Line Sown) under Irrigated Condition in Vertisol	Demonstration on IDM of areal blight disease in Soybean	Production and use of organic inputs	Women and Child care	Group meetings	-
7	Integrated Nutrient Management	Green Gram	Low yield of summer Green gram due to Imbalance Fertilizer dose	Assessment of STV based Integrated Nutrient management in summer Green	Demonstration on IPM of steamily in Soybean	Micro nutrient deficiency in crops	Capacity Building and Group Dynamics	Lectures delivered as resource	-

				gram (Line Sown) under Irrigated Condition in Vertisol				person s	
8	Integrated Nutrient Management	Green Pea	Low yield and poor quality of green pod due to Imbalance use of Nutrients	Assessment of STV based Integrated Nutrient Management in Green Pea (Kashi Nandini, Line sown) under Irrigated Condition of Vertisol	Demonstration on STV based INM on yield of Chick pea (JG - 14) under irrigated situation in vertisol	Household food security by kitchen gardenin g and nutrition gardenin g	Weed Mana gemen t	News paper covera ge	-
9	Natural Farming	Chick Pea	Low yield of Chick-pea due to less availability of Plat Nutrition by Microbial activity	Assessment of Foliar application of Jeevamrit in Chickpea (Line Sown) under Irrigated Condition in Vertisol	Demonstration on STV based INM in Wheat (GW - 322, line sown) under irrigated condition in vertisol	Design and develop ment of low/mini mum cost diet	Crop Diversi fication	Radio talks	-
10	Integrated Disease Management	Green Gram	Low yield of Green gram due to powdery Mildew disease	Assessment on Integrated Disease Management of powdery Mildew disease in Green gram	Demonstration on STV based INM on yield of Garlic in irrigated situation in vertisol	Designin g and develop ment for high nutrient efficienc y diet	-	TV talks	-
11	Integrated Disease Management	Chick Pea	Low yield of Chickpea due to collar rot disease	Assessment on Integrated Disease Management of Collar rot in Chickpea	Demonstration on IPM of pod borer in Chick pea	Minimiz ation of nutrient loss in processi ng	-	Popul ar article s	-
12	Integrated Disease Management	Mustard	Low yield of Chickpea due to Alternaria blight in Mustard	Assessment on Integrated Disease Management of Alternaria blight in Mustard	Demonstration on Agneyastra for the management of broad-spectrum pests in Chick pea	Gender mainstre aming through SHGs	-	Extens ion Literat ure	-
13	Integrated Pest Management	Wheat	Low yield of Chickpea due to Root Aphid in Wheat	Assessment on Integrated Pest Management of Root Aphid in Wheat	Demonstration on pre-emergence herbicide (Pendi methane) used in Pigeon Pea	Value addition Income generatio n activities for empower ment of rural	-	Advis ory Servic es	-
14	Bio-Pest Management	Pigeon Pea	Low yield of pigeon pea due to heavy infestation of pod borer	Assessment of IPM modules for the management of Pod borer in Pigeon pea	Demonstration on Weed management by application of Topramezone herbicide Maize	Women And child care	-	Scient ific visit to farmer s field	-
15	Bio-Pest Management	Brinjal	Low yield of Brinjal due to heavy infestation of shoot and fruit borer	Assessment of Integrated Pest Management of Shoot and Fruit Borer in Brinjal	Demonstration on HVY of Chick pea (RVG - 204)	Location specific drudgery reductio n technolo gies	-		-

16	Bio-Pest Management	Tomato	Low yield of Tomato due to incidence of Root Rot and Damping-Off disease	Assessment of ITK for management of Root Rot and Damping-Off disease in Tomato (<i>Lycopersicon esculentum</i>) by using leaf extract of <i>Cynodon dactylon</i>	Demonstration on new high yielding bold seeded Wheat variety JW - 3382	Weed Management	-	Farmers visit to KVK	-
17	Bio-Pest Management	Chick Pea	Heavy Yield losses in Chickpea due to severe infestation of Pod borer	Assessment of Mycopesticide <i>Beauveria basiana</i> and Neem oil for management of Pod borer in Chickpea	Demonstration on effectiveness of farmers' field school on Soybean production under KVK - ATMA convergence	Crop Diversification	-	Diagnostic visits	-
18	Information communication Technologies	Visual Based social media "WhatsApp"	Less use of innovative visual based media for agricultural information	Study of Effectiveness of Visual Based social media 'WhatsApp' for Dissemination of Yellow Mosaic Disease Management Technology in Soybean Under Soybean-Wheat Crop Sequence in Black Soil	Demonstration on public addressing system, an audio device for farmers' motivation towards in off-campus programmes	Seed Production Technology	-	Exposure visits	-
19	Protected Agriculture	Use of Polyhouses	Performance/functioning of Polyhouses seems not satisfactory	Study of performance/functioning of Polyhouses in Harda district	Demonstration on knowledge gained by farmers through extension literature	Mobilization of social capital	-	Ex-trainees Sammelan	-
20	Information Communication Technologies	Visual Based social media "WhatsApp"	Less use of innovative visual based media for agricultural information	Study of Effectiveness of Visual Based social media "WhatsApp" for Dissemination of Wilt Management Technology in Chickpea Under Soybean-Chickpea Crop Sequence	-	Entrepreneurial development of farmers/youths	-	Soil health Camp	-
21	Indigenous Technical Knowledge	Watermelon	Farmers not practicing plant protection based ITK in cucurbits (Watermelon)	Assessment of ITK (Spraying Cow Urine Mixed with Tobacco-soaked Water for management of Insect-pests in Cucurbits (Watermelon)	-	Capacity Building and Group Dynamics	-	Soil test campaigns	-
22	Nutritional Security (DFI)	Ragi	No use of Ragi in the diet of Rural Farm Families	Assessment of HYV of Ragi GPU-67 for	-	Bio-control of pests and	-	Self Help Group Conve	-

				Nutritional Security		diseases		ners meetin gs	
23	Nutritional Security (DFI)	Pro-Super Bag	Losses in pulses due to improper storage (30%)	Assessment of effectiveness of Pro-super bags for safe storage of pulses	-	Resource Conserv ation Technol ogies	-	Mahil a Mand als Conve ners meetin gs	-
24	Nutritional Security (DFI)	Vegetable Crops	Higher Use of Chemicals in Vegetable Crops	Assessment of ITK (Jeewamrut) to enhance the Production of Vegetables crops in Rural Areas	-	Water manage ment	-	Celebr ation of import ant days	-
25	Income Generation (DFI)	Backyard Poultry Farming	Low Income of Farm Women (70%)	Assessment of Backyard Poultry Farming in rural areas for Income Generation	-	Nutrient Use Efficiency	-	Awar eness Progr amme s	-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Crop Production	-	-	01	-	-	-	-	-	-	01
Integrated Weed Management	01	-	-	-	-	-	-	-	-	01
Crop Diversification	-	01	-	-	-	-	-	-	-	01
Resource Conservation	-	-	01	-	-	-	-	-	-	01
Crop Diversification	01	-	-	-	-	-	-	-	-	01
Integrated Nutrient Management	-	01	-	-	-	-	-	-	-	01
Integrated Nutrient Management	-	-	-	-	01	-	-	-	-	01
Integrated Nutrient Management	-	-	01	-	-	-	-	-	-	01
Natural Farming	-	-	01	-	-	-	-	-	-	01
Integrated Disease Management	-	-	01	-	-	-	-	-	-	01
Integrated Disease Management	-	-	01	-	-	-	-	-	-	01
Integrated Disease Management	-	01	-	-	-	-	-	-	-	01
Integrated Pest Management	01	-	-	-	-	-	-	-	-	01
Bio-Pest	-	-	01	-	-	-	-	-	-	01

Management										
Bio-Pest Management	-	-	-	-	01	-	-	-	-	01
Bio-Pest Management	-	-	-	-	01	-	-	-	-	01
Bio-Pest Management	-	-	01	-	-	-	-	-	-	01
Indigenous Technical Knowledge	-	-	-	-	-	01	-	-	-	01
Nutritional Security (DFI)	01	-	-	-	-	-	-	-	-	01
Nutritional Security (DFI)	-	-	-	-	01	-	-	-	-	01
TOTAL	04	03	08	-	04	01	-	-	-	20

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL	-	-	-	-	-	-	-	-

Detailed Information about OFT:

OFT-1

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of HY short duration Pigeon-pea Variety Pusa 16
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Old varieties with long duration
Thematic area:	Crop Production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Long duration variety Rajeshwari
T2 –Recommended Practice-	High yielding short duration Pigeon-pea variety
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR, IARI 2016
Characteristics of technology:	Short duration High Yielding Variety
Name of Crop/Enterprises:	Pigeon-pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pods/Plant	No.			
Yield	q/ha			

OFT -2

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Clodinofof propagyl 15%+ metsulfuron Methyl for Weed management in Wheat
Year/Season:	Rabi 2023
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low yield of Wheat due to poor weed management
Thematic area:	IWM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No Use of Herbicide
T2 –Recommended Practice-	Use of ready mixture of Clodinofof propagyl 15%+ metsulfuron Methyl 1% @ 160 gm/acre as Post emergence
T3- Recommended Practice-	Use of 2,4-D herbicide
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DWR 2016
Characteristics of technology:	Very Effective
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Weeds/m ²	No.			
Yield	q/ha			

OFT-3

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of High Yielding Variety of Mustard (RH- 749)
Year/Season:	Rabi, 2023
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low income due to continuous cultivation of same crop

Thematic area:	Crop Diversification
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Cultivation of same crop year after year
T2 –Recommended Practice-	High yielding Variety- RH 749
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CCSHAU, Hisar -2013
Characteristics of technology:	High Yielding Variety 27 q./ha, Duration 135-140 days, Oil Content 37 %
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pods/Plant	No.			
Yield	q./ha			

OFT-4

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Zero tillage Cultivation Practices for Mung bean cultivation
Year/Season:	Zaid-2023
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Loss of organic matter and soil fertility
Thematic area:	Crop Diversification
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Burning of Crop residues
T2 –Recommended Practice-	Direct sowing without crop residue burning
T3- Recommended Practice-	Use of Happy Seeder
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR 2016
Characteristics of technology:	Irrigation saving
Name of Crop/Enterprises:	Mung bean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pods/Plant	No.			
Nodules/Plant	No.			
Yield	q/ha			

OFT-5

Name of Discipline	Plant Breeding & Genetics
Title of on-farm trial:	Assessment of High Yielding Variety of Kodo Millet JK-137
Year/Season:	Kharif -2023
Farming situation:	Rainfed, Loamy Soil
Problem diagnosis:	Need of Crop Diversification
Thematic area:	Crop Diversification
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No cultivation of Kodo Millet under Minor Millets
T2 –Recommended Practice-	High yielding variety of Kodo Millet JK-137
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, 2015
Characteristics of technology:	High yielding, Disease resistant
Name of Crop/Enterprises:	Kodo Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Yield	q./ha			
B:C Ratio	No.			

OFT-6

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of STV based Integrated Nutrient management in Soybean (Line Sown) under Irrigated Condition in Vertisol
Year/Season:	Kharif -2023
Farming situation:	Irrigated, Black Soil

Problem diagnosis:	Low yield of Soybean due to Imbalance Fertilizer dose
Thematic area:	Integrated Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Imbalance Fertilizer dose
T2 –Recommended Practice-	20:60:40:40 kg/ha. NPKS+ 5 kg Zn /ha +5 t FYM+ Bio-fertilizer (Soil application 5 lit. /ha Rhizobium and PSB 5 lit. /ha)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV and IISS (2015)
Characteristics of technology:	Balance fertilizer in Soybean based on STV, Improved soil fertility and Crop production
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pods/Plant	No.			
Nodules/Plant	Nos.			
Yield	q/ha			

OFT- 7

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of STV based Integrated Nutrient management in summer Green gram (Line Sown) under Irrigated Condition in Vertisol
Year/Season:	Zaid -2023
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low yield of summer Green gram due to Imbalance Fertilizer dose
Thematic area:	Integrated Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Imbalance Fertilizer dose
T2 –Recommended Practice-	20:40:20:20 kg/ha. NPKS+ 5 kg Zn /ha +5 t FYM+ Bio-fertilizer (Soil application 5 lit. /ha Rhizobium and PSB 5 lit. /ha)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV and IISS (2016)

Characteristics of technology:	Balance fertilizer in summer Green gram based on STV Improved soil fertility and Crop production
Name of Crop/Enterprises:	Green gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pods/Plant	No.			
Nodules/Plant	Nos.			
Yield	q./ha			

OFT-8

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of STV based Integrated Nutrient Management in Green Pea (Kashi Nandini, Line sown) under Irrigated Condition of Vertisol
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low yield and poor quality of green pod due to Imbalance use of Nutrients
Thematic area:	Integrated Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Imbalance use of Nutrients
T2 –Recommended Practice-	20:60:20:20 kg/ha NPKS+ 8-10 T/ha FYM + Bio-fertilizers (Soil Application P S B @5 lit. /ha and Rhizobium @5 lit. /ha) +5 kg Zn /ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IISS (2012)
Characteristics of technology:	Balance fertilizer in Green pea based on STV improved soil fertility and green pod production
Name of Crop/Enterprises:	Green pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pods/Plant	No.			
Nodules/Plant	No.			
Yield	q./ha			

OFT-9

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Foliar application of Jeevamrit in Chickpea (Line Sown) under Irrigated Condition in Vertisol
Year/Season:	Rabi, 2023-24
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low yield of Chick-pea due to less availability of Plat Nutrition by Microbial activity
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of Jeevamrit
T2 –Recommended Practice-	Foliar application of Jeevamrit Solution (cow dung 10 kg + Cow Urine 10 lit. + 1 kg Soil taken from beneath the banyan tree+ Jaggery 1 kg +Besan 1 kg + Water 180 lit.) at 21, 45 and 65 DAS
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCOF, Ghaziyabad (2014)
Characteristics of technology:	Foliar application of Jeevamrit solution to supply all Plant Nutrient which enhances crop yield
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Pods/Plant	No.			
Nodules/Plant	Nos.			
Yield	q./ha			

OFT-10

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment on Integrated Disease Management of powdery Mildew disease in Green gram
Year/Season:	Summer, 2023
Farming situation:	Irrigated

Problem diagnosis:	Low yield of Green gram due to powdery Mildew disease
Thematic area:	Integrated Disease Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Integrated Disease Management
T2 –Recommended Practice-	Seed treatment (Carboxin +Thiram@3g kg ⁻¹ seed: Thiamethoxam 30FS @10ml kg ⁻¹ : <i>Pseudomos flurescence</i> @10ml kg ⁻¹) + Spray with Mancozeb 75 wp@ 2g/lit
T3- Recommended Practice-	-
Date of sowing:	25 March to 5 April
Date of harvesting:	first fortnight of June
Source of technology:	RCA, MPUAT, Udaipur, 2021
Characteristics of technology:	It helps to reduce the infection of Powdery Mildew in Green gram
Name of Crop/Enterprises:	Green gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Plant height	No.			
Pods/plant	Nos.			
Disease Incidence %	No.			
Yield	q./ha			

OFT-11

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment on Integrated Disease Management of Collar rot in Chickpea
Year/Season:	Rabi, 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Chickpea due to collar rot disease
Thematic area:	Integrated Disease Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Integrated Disease Management
T2 –Recommended Practice-	Deep Summer Ploughing + Seed treatment (Carboxin +Thiram@3g kg ⁻¹ seed: Thiamethoxam 30FS @10ml kg ⁻¹ : <i>Pseudomos flurescence</i> @10ml kg ⁻¹) + Soil application of <i>Trichoderma spp</i> @5 L with 100 kg FYM ha ⁻¹ + Foliar Spraying of <i>Pseudomos flurescence</i> @5 L ha ⁻¹ + Light Irrigation at beginning of infection of diseases
T3- Recommended Practice-	-

Date of sowing:	25 October to 05 November
Date of harvesting:	First fortnight of February
Source of technology:	BHU, Banaras, 2008 and JNKVV, Jabalpur 2015
Characteristics of technology:	It helps to reduce the infection of Collar rot in Chickpea
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Plant height	No.			
Pods/plant	No.			
Disease Incidence %	Nos.			
Yield	q./ha			

OFT-12

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment on Integrated Disease Management of Alternaria blight in Mustard
Year/Season:	Rabi, 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Chickpea due to Alternaria blight in Mustard
Thematic area:	Integrated Disease Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Integrated Disease Management
T2 –Recommended Practice-	Seed treatment (Carboxin +Thiram@3g kg ⁻¹) + Foliar Spraying of Mancozeb 75 WP@1kg ha ⁻¹
T3- Recommended Practice-	-
Date of sowing:	25 October to 05 November
Date of harvesting:	First fortnight of February
Source of technology:	DRMR, Bharatpur, 2013
Characteristics of technology:	It helps to management the Alternaria blight in Mustard
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Plant height	No.			

Disease Incidence%	No.			
Silique/Plant	Nos.			
Yield	q./ha			

OFT-13

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment on Integrated Pest Management of Root Aphid in Wheat
Year/Season:	Rabi, 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Chickpea due to Root Aphid in Wheat
Thematic area:	Integrated Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Integrated Pest Management
T2 –Recommended Practice-	Deep Summer Ploughing + Seed treatment (Carboxin +Thiram@3g kg ⁻¹ seed: Thiamethoxam 30FS @10ml kg ⁻¹ : <i>Azotobactor Spp</i> @10ml kg ⁻¹) + Foliar Spraying of <i>Immidachloprid 200 SL</i> @100ml ha ⁻¹ + Light Irrigation at beginning of infection of diseases
T3- Recommended Practice-	-
Date of sowing:	25 October to 05 November
Date of harvesting:	First fortnight of February
Source of technology:	JNKVV, Jabalpur, 2014
Characteristics of technology:	It helps to management the Alternaria blight in Mustard
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Plant height	No.			
Tillers/Plant	No.			
Aphid/plant	Nos.			
Yield	q./ha			

OFT-14

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM modules for the management of Pod borer in Pigeon pea
Year/Season:	Kharif, 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of pigeon pea due to heavy infestation of pod borer

Thematic area:	Bio-Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of <i>Beauveria basiana</i>
T2 –Recommended Practice-	Use of Pheromone trap 30 trap/ha + One spray of <i>Beauveria basiana</i> @1000 ml/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur, 2013
Characteristics of technology:	Environment friendly, Low cost and effective
Name of Crop/Enterprises:	Pigeon-pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Larvae/m ²	No.			
Yield	q./ha			

OFT-15

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated Pest Management of Shoot and Fruit Borer in Brinjal
Year/Season:	Kharif, 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Brinjal due to heavy infestation of shoot and fruit borer
Thematic area:	Bio-Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of <i>Beauveria basiana</i>
T2 –Recommended Practice-	Use of Pheromone trap 30 trap/ha + One spray of <i>Beauveria basiana</i> @1000 ml/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur, 2013
Characteristics of technology:	Environment friendly, Low cost and effective
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Larvae/m ²	No.			
Yield	q./ha			

OFT-16

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of ITK for management of Root Rot and Damping-Off disease in Tomato (<i>Lycopersicon esculentum</i>) by using leaf extract of <i>Cynodon dactylon</i>
Year/Season:	Rabi-2023-24
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low yield of Tomato due to incidence of Root Rot and Damping-Off disease
Thematic area:	Bio-Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Indigenous Technical Knowledge (ITK)
T2 –Recommended Practice-	Use of extract of <i>Cynodon dactylon</i> @ 10 liter /Acre
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Traditional Knowledge in Agriculture Book Vol. (1):15-16 . ICAR, New Delhi 2004
Characteristics of technology:	Environment friendly, Low cost and effective
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Disease Incidence %/m ²	No.			
Larvae/m ²	No.			
Yield	q/ha			

OFT-17

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Mycopensticide <i>Beauveria basiana</i> and Neem oil for management of Pod borer in Chickpea
Year/Season:	Rabi-2023-24
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Heavy Yield losses in Chickpea due to severe infestation of Pod borer

Thematic area:	Bio-Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old varieties and indiscriminate use of insecticides
T2 –Recommended Practice-	Use of Pheromone trap 10 trap/ha+ Bird perches @50 /ha+two spray of <i>Beauveria basiana</i> @1000 ml/ha+Neem oil @ 2 ml /liter at 45 and 75 DAS
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur, 2015
Characteristics of technology:	
Name of Crop/Enterprises:	Chick-pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	
Larvae/m ²	No.			
Yield	q./ha			

Information about Extension OFT:

OFT-18

Title of OFT	Study of Effectiveness of Visual Based social media ‘WhatsApp’ for Dissemination of Yellow Mosaic Disease Management Technology in Soybean Under Soybean-Wheat Crop Sequence in Black Soil
Season & Year	Kharif, 2023
Problem identified	Less use of innovative visual based media for agricultural information
Thematic Area	Information communication Technologies
Farming situation	Irrigated, Black soil
Name of Technology Intervention under study (T2)	Dissemination of agricultural technologies by using visual based social media “WhatsApp”.
Farmers Practice (T1)	Least use of visual based social media for agricultural information.
No. of replication (Farmers)	80

Results / Findings

Performance indicators/ parameters	Unit/ details
1. Content of Message 2. Time of Message sent 3.Type of Message 4.No of words/message 5.Language of the message 6.Crop stage when message sent 7. Visibility of the content 8. Applicability of the KMA Message 9. Need of the KMA Message 10. Impact of the KMA Message 11. Feedback	Nos.

OFT-19

Title of OFT	Study of performance/functioning of Polyhouses in Harda district
Season & Year	Kharif, Rabi, Zaid, 2023-24
Problem identified	Performance/functioning of Polyhouses seems not satisfactory
Thematic Area	Protected Agriculture
Farming situation	Irrigated, Black soil
Name of Technology Intervention	Use of Polyhouses for offseason cultivation
Farmers Practice (T1)	Unsatisfactory Polyhouse cultivation with less income
Recommended Practice (T2)	Use of Polyhouses for off season cultivation
No. of replication (Farmers)	04

Results / Findings

Performance indicators/ parameters	Unit/ details
Yield Kg/unit/year, market price received, addition income received in comparison to open field cultivation, C:B ratio/unit	Nos.

OFT-20

Title of OFT	Study of Effectiveness of Visual Based social media “WhatsApp” for Dissemination of Wilt Management Technology in Chickpea Under Soybean-Chickpea Crop Sequence
Season & Year	Rabi, 2023-24
Problem identified	Less use of innovative visual based media for agricultural information
Thematic Area	Information communication Technologies
Farming situation	Irrigated, Black soil
Name of Technology Intervention under study (T2)	Dissemination of agricultural technologies by using visual based social media “WhatsApp”.
Farmers Practice (T1)	Least use of visual based social media for agricultural information.
No. of replication (Farmers)	80

Results / Findings

Performance indicators/ parameters	Unit/ details
1. Content of Message 2.Time of Message sent 3.Type of Message 4.No of words/message 5.Language of the message 6.Crop stage when message sent 7. Visibility of the content 8. Applicability of the KMA Message 9. Need of the KMA Message 10. Impact of the KMA Message 11. Feedback	Nos.

OFT-21

Title of OFT	Assessment of ITK (Spraying Cow Urine Mixed with Tobacco-soaked Water for management of Insect-pests in Cucurbits (Watermelon)
Season & Year	Zaid, 2023-24
Problem identified	Farmers not practicing plant protection based ITK in cucurbits (Watermelon)
Thematic Area	Indigenous Technical Knowledge
Farming situation	Irrigated, Black soil

Name of Technology Intervention under study (T2)	Spraying Cow Urine Mixed with Tobacco-soaked water(1:100) @10 ml/L
Farmers Practice (T1)	Farmers are nor using plant protection based ITK in cucurbits (Watermelon)
No. of replication (Farmers)	05

Results / Findings

Performance indicators/ parameters	Unit/ details
Nos. of larvae/m ²	No.
Yield, B:C ratio	q./ha

Information about Home Science OFT:

OFT-22

Title of on-farm trial:	Assessment of HYV of Ragi GPU-67 for Nutritional Security
Year/Season:	Kharif-2023
Problem diagnosis:	No use of Ragi in the diet of Rural Farm Families
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security (DFI)
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Low intake of Calcium and Iron according to the RDA in daily diet
T2 –Recommended Practice-	HYV of Ragi GPU-67 contains Calcium and Iron
Source of technology:	PC Unit, UAS Bangalore-2012
Characteristics of technology:	Rich in Calcium (344mg/100gm) Early maturity, Resistant to Blast, Yield 22-25 q./ha, Maturity 95-100 days
Name of Crop/Enterprises:	Ragi (Finger Millets)
Farming situation:	Semi-Irrigated
Date of sowing:	2nd week of June-2023
Date of harvesting:	September-2023
Recommendations for Farmers	Good variety for calcium and Iron
Recommendations for Deptt. Personnel	Good variety for calcium and Iron
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details

Consumption of Ragi/Person/Day	No.
Enhancement of Iron/Person	No.
Enhancement of Calcium/Person	No.

OFT-23

Title of on-farm trial:	Assessment of effectiveness of Pro-super bags for safe storage of pulses
Year/Season:	Kharif-2023
Problem diagnosis:	Losses in pulses due to improper storage (30%)
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security (DFI)
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of gunny bags for storage of pulses
T2 –Recommended Practice-	Use of Pro-super bags
T-3 – Recommended Practices-	--
Source of technology:	ICAR-IRRI, 2012
Characteristics of technology:	Vacuum sealed for log time safe storage of pulses
Name of Crop/Enterprises:	Pro-Super Bags
Farming situation:	--
Date of sowing:	May- 2023
Date of harvesting:	July-2023
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3 (R P)
Infestation of Insects and Pests	%			
Duration of storage (days	No.			

OFT-24

Title of on-farm trial:	Assessment of ITK (Jeevamrut) to enhance the Production of Vegetables crops in Rural Areas
Year/Season:	Rabi,2023-24
Problem diagnosis:	Higher Use of Chemicals in Vegetable Crops
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security (DFI)
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Not using any organic matter to enhance the production
T2 –Recommended Practice-	Cow dung- 10kg, Cow urine- 10L, Jaggery- 2kg, Flour of gram (Tur, Moong, Cowpea, Urad) – 2kg, Live soil (Healthy soil)- 1 kg, Water- 200L @ 5-10% spray with water
Source of technology:	TNAU, Coimbatore -2018
Characteristics of technology:	Jeevamrut is a rich source of Nitrogen, Potassium and Phosphorus. It also contains all other micronutrients responsible for plant growth and development
Name of Crop/Enterprises:	Vegetable Crops
Farming situation:	Irrigated
Date of sowing:	October- 2023
Date of harvesting:	December -2023
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Yield, B:C Ratio	q./ha, Nos.

OFT-25

Title of on-farm trial:	Assessment of Backyard Poultry Farming in rural areas for Income Generation

Year/Season:	Rabi,2023-24
Problem diagnosis:	Low Income of Farm Women (70%)
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income Generation (DFI)
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of Local Breed
T2 –Recommended Practice-	Use of Improved Breed (Krishna-J), 20 Chicks/unit, Units-5
T-3 – Recommended Practices-	Use of Improved Breed (Narmada Nidhi), 20 Chicks/unit, Units-5
Source of technology:	JNKVV-2012
Characteristics of technology:	Good for meat, higher weight gain, high price value, more survival rate, Dual purpose use
Name of Crop/Enterprises:	Backyard Poultry Farming
Farming situation:	--
Date of sowing:	September- 2023
Date of harvesting:	December -2023
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3 (R P)
Weight/bird	No.			
Eggs laying/bird	No.			
Income Generation/unit	Rs.			
Mortality	%			
B:C Ratio	No.			

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Maize	INM	90:45:30 kg/ha. NPK + 5 kg Zn /ha +10 t FYM + Bio-fertilizer (soil application of 5 lit./ha Azt. and 5 lit./ha PSB /ha)	Urea, DAP, MOP, Zinc and Bio-fertilizer	Kharif-2023	02	05	Plant Height (cm), No. of grain / cob, Yield (q/ha) and B:C Ratio
2	Chick-Pea	INM	20:60:20 kg /ha. NPK + Bio-fertilizer (Soil Application P S B @5 lit. /ha and Rhizobium @5 lit. /ha) + 5 kg /ha. Zn	Urea, SSP, MOP, Zinc and Bio-fertilizer	Rabi, 2023-24	02	05	Plant height (cm), No. of pod /plant, Yield q/ha and B:C Ratio
3	Wheat	INM	90:45:30 kg/ha. NPK + 5 kg Zn /ha +10 t FYM + Bio-fertilizer (soil application of 5 lit./ha Azt. and 5 lit./ha PSB /ha).	Urea, DAP, MOP, Zinc and Bio-fertilizer	Rabi, 2023-24	02	05	No. of Effective Tiller /plant, Plant height(cm), Yield (q/ha) and BC Ratio
4	Garlic	INM	100:50:50 kg /ha NPK + 8-10 T /ha. FYM + 40 kg /ha Sulphur	Urea, SSP, MOP and Granular Sulphur	Rabi, 2023-24	02	05	Plant Height (cm), Yield (q/ha)and B:C Ratio
5	Soybean	IDM	Deep Summer Ploughing + Soil application of Trichoderma spp @5 L with 100 kg FYM ha-1 + Seed treatment (Carboxin +Thiram) @3g kg-1 seed+ Two foliar spraying of Trifloxystrobin+Tebuconazole @ 300g ha-1 at 35 and 60 Days after sowing	-	Kharif, 2023	02	05	Plant Height, Pods/Plant ,DI%, Yield q/ha
6	Soybean	IPM	Deep Summer Ploughing + Seed treatment (Carboxin +Thiram@3g kg-1 seed: Thiamethoxam 30FS @10ml kg-1 : <i>Rhizobium spp</i> @10ml kg-1) + Need based foliar spraying of (Betacyfluthrin 8.49%+ Imidachloprid 19.81w/w) @ 350ml ha-1 at at time 20-25 DAS and (Thiamethoxam 12.6% +Lambdacyhlothrin 9.5%) 247ZC @ 125ml ha-1 at 55 Days after sowing	-	Kharif, 2023	02	05	Plant Height, Pods/Plant ,PI%, Yield q/ha
7	Chickpea	IPM	Deep Summer Ploughing + Seed treatment (Carboxin +Thiram@3g kg-1 seed: Thiamethoxam 30FS @10ml kg-1 : <i>Rhizobium spp</i> @10ml kg-1) + Bird burchers @50 ha-1 + Need based foliar spraying of Emamectin	-	Rabi, 2023	02	05	Plant Height, Pods/Plant ,PI%, Yield q/ha

			Benzoate@ 80g ha-1 at time 35 DAS and 75 Days after sowing					
8	Chickpea	IPM	Application of Agneyastra @ 5 liter ha-1 at Pre and after flowering	-	Rabi, 2023	02	05	Plant Height, Pods/Plant ,PI%, Yield q/ha

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	09	-	180
2	Farmers Training	10	-	200
3	Media coverage	08	-	Mass
4	Training for extension functionaries	02	-	30

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Gruber Weeder	Vegetable Crops	Rabi, 2023-24	05	01	Gruber Weeder on rent	Output (Area/hr.) Heart rate beat/min, Est. Energy Expenditure kj/min., % reduction in drudgery, % increase in efficiency	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Greengram	Plant Protection	INM/ IPM/INM	Seeds, pesticides	Zaid 2023	20	50	PI%, DI% & Yield q ha ⁻¹
2	Soybean	Plant	INM/ IPM/INM	Biofertilizers/Pesticides	Kharif	20	50	PI%, DI% & Yield q ha ⁻¹

		Protection			2023			
3	Chickpea	Plant Protection	INM/ IPM/INM	Biofertilizers/Pesticides	Rabi 2023	20	50	PI%, DI% & Yield q ha ⁻¹

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	06	May, August and December	50-60
2	Farmers Training	06	May, August and December	50-60
3	Media coverage	03	May, August and December	Mass
4	Training for extension functionaries	-	-	-

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	01	01	-	-	-	-	-	-	20
Soil and Water Conservation	01	01	-	-	-	-	-	-	20
Integrated Nutrient Management	01	01	-	-	-	-	-	-	20
Production and use of organic inputs	01	01	-	-	-	-	-	-	20
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	01	01	-	-	-	-	-	-	20
Nutrient Use Efficiency	01	01	-	-	-	-	-	-	20
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	06	06	-	-	-	-	-	-	120
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	01	01	-	-	-	-	-	-	20
Design and development of low/minimum cost diet	01	01	-	-	-	-	-	-	20
Designing and development for high nutrient efficiency diet	01	01	-	-	-	-	-	-	20
Minimization of	01	01	-	-	-	-	-	-	20

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
issues									
Total	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
Grand Total	25	25	-	-	-	-	-	-	500
(B) RURAL YOUTH									
Mushroom Production	01	05	-	-	-	-	-	-	20
Bee-keeping	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-
Vermi-culture	01	05	-	-	-	-	-	-	20
Value addition	02	10	-	-	-	-	-	-	40
Sheep and goat rearing	01	05	-	-	-	-	-	-	20
Para extension workers	-	-	-	-	-	-	-	-	-
TOTAL	05	25	-	-	-	-	-	-	100
(C) Extension Personnel									
Productivity enhancement in field crops	01	01	-	-	-	-	-	-	20
Integrated Pest Management	02	02	-	-	-	-	-	-	40
Integrated Nutrient management	01	01	-	-	-	-	-	-	20
Protected cultivation technology	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	01	01	-	-	-	-	-	-	20
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	02	02	-	-	-	-	-	-	40
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Any other (Women and Child Care)	02	02	-	-	-	-	-	-	40
TOTAL	09	09	-	-	-	-	-	-	180

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	05	05	-	-	-	-	-	-	100
Resource Conservation Technologies	01	01	-	-	-	-	-	-	20
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	01	01	-	-	-	-	-	-	20
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	01	01	-	-	-	-	-	-	20
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	08	08	-	-	-	-	-	-	160
II Horticulture									
a) Vegetable Crops									
Nursery raising	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
b) Fruits									
Cultivation of Fruit	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-
Soil fertility management	02	02	-	-	-	-	-	-	40
Soil and Water Conservation	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	01	01	-	-	-	-	-	-	20
Production and use of organic inputs	01	01	-	-	-	-	-	-	20
Management of Problematic soils	01	01	-	-	-	-	-	-	20
Micro nutrient deficiency in crops	01	01	-	-	-	-	-	-	20
Nutrient Use Efficiency	01	01	-	-	-	-	-	-	20
Soil and Water Testing	07	07	-	-	-	-	-	-	140
IV Livestock Production and Management									

Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	01	01	-	-	-	-	-	-	20
Design and development of low/minimum cost diet	01	01	-	-	-	-	-	-	20
Designing and development for high nutrient efficiency diet	01	01	-	-	-	-	-	-	20
Minimization of nutrient loss in processing	01	01	-	-	-	-	-	-	20
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-
Women and child care	01	01	-	-	-	-	-	-	20
Total	05	05	-	-	-	-	-	-	100
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-	-
Integrated Pest Management	02	02							40
Integrated Disease Management	06	06							120
Bio-control of pests and diseases	02	02	-	-	-	-	-	-	40
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-
Total	10	10							200
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	09	1	-	-	-	-	-	-	180
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	01	1	-	-	-	-	-	-	20
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
Mobilization of	01	1	-	-	-	-	-	-	20

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
-	-	-	-	-	-	-	-	-	-	-
Seed Production										
Jan-Dec-23	F/FW	Seed Production Technology	07	-	-	-	-	-	-	140
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
July-23	F/FW	Minimization of nutrient loss in processing	02	-	-	-	-	-	-	40
August-23	F/FW	Location Specific drudgery reduction technologies	01	-	-	-	-	-	-	20
September-23	F/FW	Women and Child care	03	-	-	-	-	-	-	60
September-23	F/FW	Designing and development for high nutrient efficiency diet	02	-	-	-	-	-	-	40
June-23	F/FW	Design and development of low/minimum cost diet	02	-	-	-	-	-	-	40
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
June-23	F/FW	Importance of STV based Balance fertilizer in Soybean crop production	01		-	-	-	-	-	20
June-23	F/FW	Role of Bio fertilizer in Soybean & Urd Crop Production	01		-	-	-	-	-	20
July-23	F/FW	Importance of Jeevamrit and Ghanjeevamrit in Natural Farming	01	-	-	-	-	-	-	20
September-23	F/FW	Integrated Nutrient management in	01	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Protection										
May-23	F/FW	Seed coated with Beejamrit for protecting seeds	01	-	-	-	-	-	-	20
July-23	F/FW	Jeevamrit to enhance soil micro flora for soil borne diseases management	01	-	-	-	-	-	-	20
September-23	F/FW	Application of Agneyastra and Neemastra to manage broad spectrum pests	01	-	-	-	-	-	-	20
July-23	F/FW	IDM in Urd bean for diseases management	01	-	-	-	-	-	-	20
August-23	F/FW	Integrated Disease Management in Horticultural crops	01	-	-	-	-	-	-	20
September-23	F/FW	Role of <i>Trichoderma spp</i> in crop production	01	-	-	-	-	-	-	20
December-23	F/FW	Integrated Disease Management in Wheat	01	-	-	-	-	-	-	20
October-23	F/FW	Integrated Pest Management in Chickpea crop	01	-	-	-	-	-	-	20
December-23	F/FW	Integrated Disease Management in Mustard crops	01	-	-	-	-	-	-	20
November-23	F/FW	Integrated Disease Management Chickpea for soil born disease management	01	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
January 2023/5.1.23	F/FW	Multiple cropping pattern need to maximize income of farmers	01	-	-	-	-	-	-	20
January 2023/11.1.23	F/FW	Importance and opening of seed societies for quality seed supply and income generation	01	-	-	-	-	-	-	20
January 2023/12.1.23	F/FW	Group marketing approach to fetch high price of agricultural produce	01	-	-	-	-	-	-	20
Feb-23	F/FW	Importance of digital ICTs like apps and social media among farming community	01	-	-	-	-	-	-	20
March-23	F/FW	Result demonstration to motivate the farmers for new technology	01	-	-	-	-	-	-	20
April-23	F/FW	Importance of water pond and other water harvesting structures at village level in agriculture	01	-	-	-	-	-	-	20
May-23	F/FW	Different agricultural information sources for	01	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		farmers								
June-23	F/FW	Technical dimensions for sustainable agricultural and organic farming	01	-	-	-	-	-	-	20
July-23	F/FW	Crop diversification to minimize crop loss risks	01	-	-	-	-	-	-	20
August-23	F/FW	Role of polyhouse in off season supply of different crops for boosting the farmer’s income	01	-	-	-	-	-	-	20
Sep.-23	F/FW	Recent agricultural innovations for simplify the agricultural operations	01	-	-	-	-	-	-	20
October-23	F/FW	Importance of crop planning and suitable high value crops for good income generation.	01	-	-	-	-	-	-	20
November-23	F/FW	Importance of Indigenous Technical Knowledge and Indigenous Agricultural Knowledge for zero budget natural farming	01	-	-	-	-	-	-	20

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
-	-	-	-	-	-	-	-	-	-	-
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
September- 23	Rural Youth	Value addition of Millets	05	-	-	-	-	-	-	20
December - 23	Rural Youth	Preservation and Processing of locally available Fruits and Vegetables	05	-	-	-	-	-	-	20
Plant Protection										
November- 23	Rural Youth	Mushroom: A Source of Income	05	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
December 2023	Rural Youth	Microenterprises Establishment	05	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		for income generation for unemployed rural youth								
Soil Science										
November 2023	Rural Youth	Vermi-culture: A source of Farmers income	05	-	-	-	-	-	-	20

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July-23	RAEOs	Weed management in Soybean	1	-	-	-	-	-	-	20
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
October-23	ICDS Worker	Proper care and awareness in first 1000 days of inception	1	-	-	-	-	-	-	20
December-23	ICDS Worker	Proper techniques of developing nutritional kitchen garden in Aanganwari Kendras	01	-	-	-	-	-	-	20
Plant Protection										
August-23	RAEOs	Integrated pest management in Soybean	01	-	-	-	-	-	-	20
November-23	RAEOs	Integrated pest management in Chick - pea	01	-	-	-	-	-	-	20
September-23	RAEOs	Bio-Pest Management	01	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
May 2023	Extension personnel	Use of ICTs tools and social media Apps, face book and email and retrieval of websites for technical information and its communication among farmers	01	-	-	-	-	-	-	20
Soil Science										
June 2023	Extension Worker	Integration Nutrient Management in Crops	01	-	-	-	-	-	-	20

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (q.)
CEREALS	--	--	--
OILSEEDS	Soybean	--	Approx. 180
PULSES	Chick Pea	--	Approx. 200
VEGETABLES	--	--	--
FLOWER CROPS	--	--	--
OTHERS (Specify)	--	--	--

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango, Guava, Anola, Papaya	Improved Variety	100000
SPICES	-		-
VEGETABLES	Tomato	Utsav, Anupam	500000
	Chilli	Agni -101, Ustar	
	Brinjal	Pusa kranti, Pant Rituraj	
	Onion	AFLR, Pune Fursungi	
	Cauliflower	Himrani, Pusa Ageti	
	Cabbage	Pride of India, Green globe	
	Drum Stick	PKM-1	
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
BIOFERTILIZERS				
1	Vermicompost	-	-	-
2	NADEP	-	-	-

BIO PESTICIDES				
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January-December-2023	3	1500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	YouTube	--	15
2	Social Media (WhatsApp, Facebook, Twitter, Instagram etc.)	--	08
3	Newspaper Coverage	Local News Paper	12

Success stories/Case studies identified for development as a case: 5 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, Line dept. and Interface
2	Rural Youth	PRA and Interface
3	In-service personnel	AES and Line dept.
4	methodology for identifying OFTs/FLDs	PRA and Interface
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Balagaon	Harda	15 Km.
2	Neelgarh	Harda	20 Km.
3	Uwa	Harda	35 Km.
4	Sontalai	Timarni	40 Km.
5	Kachbedi	Timarni	42 Km.

6	Amasel	Khirkiya	50 Km.
7	Gahal	Khirkiya	25 Km.
8	Mardanpur	Khirkiya	30 Km.
9	Mahendragaoon	Khirkiya	40 Km.
10	Baranga	Khirkiya	44 Km.
11	Handiya	Harda	7 Km.
12	Sultanpur	Harda	35 Km.
13	Abgaonkhurd	Harda	20 Km.

1. No. of farm families selected per village : 55
2. No. of survey/PRA to be conducted: 6

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:... **Soil Testing Lab has not been established in KVK**

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Soil Testing Kit (Mrida Prikshan)	02	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	22	-
Water Samples	0	0	0	-
Total	1000	1000	22	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture Department	Technological Support, Extension Activities, Demonstrations, Awareness Programmes, Trainings
Horticulture Department	Technological Support, Extension Activities, Demonstrations, Awareness Programmes, Trainings
Women and Child Development Department	Technological Support, National Nutrition Month celebration, Extension Activities, Demonstrations, Awareness Programmes, Nutritional Trainings
Veterinary Department	Technological Support, Extension Activities, Demonstrations, Awareness Programmes, Trainings
Fishery Department	Technological Support, Extension Activities

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage
ATMA	Trainings, Scientist Farmers Interface, Kisan Mela, Demonstrations, CFLDs etc.

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
--	--

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes - Seed Hub

Season	Activity details	Targeted Beneficiaries/Area	Targeted Area/Coverage
Rabi 2023 - 24	Seed production of Chick - Pea variety (RVG - 204)	300 qt.	12 ha
Summer - 2024	Seed production of Green Gram variety (MH - 1142)	300 qt.	25 ha

Name of Flagship programmes - Natural farming

Month	Activity details	Targeted Beneficiaries/Area	Targeted Area/Coverage
January	Training	1/40	Harda, Timarni, Khirkiya Block
February	Kisan Mela	1/1000	Harda, Timarni, Khirkiya Block
January - December	Kisan Sangoshthi	3/300	Harda, Timarni, Khirkiya Block
January - December 2023	Awareness Programmes	30/2000	Harda, Timarni, Khirkiya Block
September - October	Demonstrations	8/8	Harda Block

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Maize	Kharif - 2023	Sugar - 75, Nath samrath - 1144, JM - 216, JM - 218, Ganga - 4	Improved HYV	4.5 each plot
Mung Bean	Kharif - 2023	TJM - 3, Ganga - 8, HUM - 12, HUM - 16, PDM - 139, MH - 421	Improved HYV	4.5 each plot
Pigeon - Pea	Kharif - 2023	Pusa - 16, TJT - 501, Rajeshvary	Improved HYV	4.5 each plot
Soybean	Kharif - 2023	JS - 335, JS - 93-05, JS - 97-52, JS - 95-60, RVS - 2001 - 4, NRC - 86, JS - 2034, JS - 2098	Improved HYV	4.5 each plot
Wheat	Rabi - 2023 - 24	HI - 8498, HI - 1544, HI - 1531, HI - 8663, HI - 8627, HI - 1500, HI - 1418, HD - 4672, HD - 2932, MP - 1215, MP - 1201	Improved HYV	4.5 each plot
Chick - Pea	Rabi - 2023 - 24	JG - 12, JG - 14, JG - 130, JG - 16, JG - 218, JAKI - 9218, RVG - 201, RVG - 203, JG - 63	Improved HYV	4.5 each plot
Vegetable Crops under Organic Nutritional Kitchen Garden under Crop Cafeteria				
Spinach	Rabi, 2023 - 24	All green, Pusa Jyoti	Hybrid Varieties	Circular Garden (7m. x 7m.)
Radish		F1 - NY - White, Shipra		
Fenugreek		Pusa early bunching, Pusa Kasuri		
Pea		VIR - 111, MS - 10		
Coriander		Cimpu S - 33, American long		
Carrot		Surabhi, Pusa, Kesar		
Tomato		Utsav, Anupam		
Cauliflower		Himrani, Pusa Ageti		
Brinjal		Pusa kranti, Pant Rituraj		
Cabbage		Pride of India, Green globe		
Green Chilli		Agni -101, Ustar		
Onion		AFLR, Pune Fursungi		
Garlic		G - 282, G - 1		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq. m.)	Output /Production
Vermi - Compost unit (03)	3' x 12' each	10.3	30 qt.
Nadep unit (02)	5' x 12' each	11.14	25 qt.
Dairy unit (01)	5	-	1500 lt.
Azolla unit (03)	16' x 16' each	71.3	-
Trichoderma unit (09)	16' x 16'	23.7	30 qt.

ANNUAL ACTION PLAN 2023

KVK JABALPUR

Year of sanction:- 2005

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr.Rashmi Shukla		9425152841	rchoubey_2007@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Senior Scientist and Head	Dr. Rashmi Shukla	Senior Scientist and Head	Home Science	37400-67000+ AGP 9000	09.03.2007		9425152841	rchoubey_2007@rediffmail.com	
2	Scientist	Dr. D. K. Singh	Scientist	Agril. Extension	15600-39100+ AGP 8000	24.01.2007	24.01.2007	6261546761	dineshkumar3280@gmail.com	
3	Scientist	Dr. A.K. Singh	Scientist	Soil Science	15600-39100+ AGP 8000	27.01.2007		9424638238	singhak123@rediffmail.com	
4	Scientist	Dr. Neelu Vishwakarma	Scientist	Home Science	15600-39100+ AGP 8000	24.01.2007		9425801341	neelu_vishwakarma@rediffmail.com	
5	Scientist	Dr. Siddharth Nayak	Scientist	Agronomy	15600-39100+ AGP 6000	10.10.2011		9424684939	c_lib@rediffmail.com	

1.3 Total land with KVK (in ha): 26.598

S. No.	Item	Area (ha)
1	Under Buildings	0.457
2	Under Demonstration Units	1.00
3	Under Crops	25.141
4	Orchard/Agro-forestry	--
5	Others (specify)	--
Total		

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2006					
2	Farmers Hostel	ICAR	2006					
3	Staff Quarters (6)	-	-					
4	Demonstration Units (2)							
	Demonstration Units (Mushroom)	Skill India	2021	120m ²	15568			
	Demonstration Units (zero energy cool chamber)	ICAR	2019	165 cmx115cm	16408			
5	Fencing	-	-					
6	Rain Water harvesting system	ICAR						
7	Threshing floor	-	-					
8	Farm godown	-	-					

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	-	-	-	-
Motor Cycle 2	2005	45452	53991	Good
Bolero(Jeep)	2019	773368	35548	Good
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector (2 no.)	2007	58488	Good
	2018	35850	
Xerox Machine (1 no.)	2012	80255	Good
Generator (1 no.)	2012	52399	Good
Video Camera (5 nos)	2006	24000	Good
	2013	19900	Good
	2017	15900	Good
	2020	19200	Good
	2021	19450	Good
Computer (4 nos.), Laser Printer (3 nos.)	2005	69435	Good
	2013	33900	Good
	2019	119436	Good
	2019	18145	Good

	2021	13806	Good
UPS 600 VA (2 nos)	2019	11980	Good
Stabilizer 2 KVA			
Stabilizer (4 nos)	2005	6999	Good
	2009	16047	Good
Inverter 600 VA (1 no.)	2012	8950	Good
Inverter Battery (2)	2012	25000	Good

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	Pre Kharif 2023
2	Pre Rabi 2023-24

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	519.80
Forest	77.70
Waste Land	36.70
Other than cultivated area	306.10
Cultivable waste and alkaline land	22.60
Pastures	39.70
Bushes	37.00
Current Fallow	16.20
Other Fallow	16.10
Agricultural Land	306.10
Area Sown	273.80
Kharif	116.80
Rabi	237.7
Zaid	25.4
Cropping Intensity	136 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	9.40
2	Well	107.60
3	Tube well	-
4	Ponds	-
5	Others	16.10

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep soils, black soil	Chemically, the black soils are rich in lime, iron, magnesia and alumina. They also contain potash. But they lack in phosphorous, nitrogen and organic matter. The colour of the soil ranges from deep black to grey	261.10
2	Medium deep soils, light loamy	Loam soils contain sand, silt and clay in such proportions that stickyness and non-adhesiveness are in balance - so the soils are mouldable but not sticky. Loams are the "friendliest" soils to cultivate. Clays can absorb and hold onto large amounts of water because of their sheet structure and large surface area.	89.60
3	Shallow soils, red yellow gravel	The red colour is due to the presence of iron in crystalline and metamorphic rocks. The soil appears yellow when it is in hydrated form. The fine-grained red and yellow soil is usually fertile while the coarse-grained soil is less fertile. This type of soil is generally deficient in nitrogen, phosphorus and humus. Rocky or gravelly soil: Gravel is very small, irregular pieces of rock and stone. It is more rough and rocky than sand, and smaller than stones. Soil that is rocky or gravelly will have a large proportion of rocks or gravel	169.20

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area ('000 ha)	Production ('000 tonne)	Productivity (kg/ha)
1	Rice	17.35	75906.25	4375
2.	Maize	4.2	13314.00	3170
3.	Minor Millet (Kondo & Kutki)	-	-	2050
4	Blackgram	0.97	669.30	690
5	Pigeonpea	0.94	1433.50	1525

6	Greengram	0.25	160.00	640
7	Wheat	19.38	90117.00	4650
8	Chickpea	4.00	8040.00	2010
9	Lentil	0.81	1648.35	2035
10	Vegetable Pea	0.90	1935.00	2150
11	Mustard	0.17	195.50	1150
12	Green Gram	0.89	636.35	715
13	Blackgram	0.16	128.00	800

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	16.10	22.00	8.40
Feb, 22	11.60	26.60	9.50
Mar, 22	0.00	34.0	14.8
Apr, 22	0.20	40.50	19.70
May, 22	17.20	40.10	24.60
Jun, 22	261.40	37.80	26.50
July, 2022	391.40	31.30	24.70
Aug., 2022	443.40	30.50	24.30
Sept., 2022	257.20	30.80	23.60
Oct. 2022	89.70	30.40	18.00
Nov. 2022	0.00	28.40	10.00
Dec. 2022	0.00	26.30	9.200

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Patan	Shahpura	Phular	Moong, Urd, Soybean, Pea, Wheat, Chickpea and Paddy	Unused fallow land * Attack of termite in wheat* Weed infestation in paddy, wheat & pea * Incidence of wilt & rot in gram* Yellow vein mosaic pulses & oilseeds* Nematode infestation in vegetables* Old variety & low quality seed used.	Seed Production and replacement Integrated pest & disease management Promotion of horticultural crops
2	Patan	Shahpura	Bheeta	Moong, Urd, Soybean, Pea, Wheat, Lentil, Chickpea	Low yield in Soybean due to use of heavy seed rate * Attack of white fly & pod borer in soybean. * Pod borer & wilt in gram & lentil * Use of locally available seed and old variety. * YMV in soybean * Traditional method of plantation of paddy & soybean	Seed Production and replacement Integrated pest & disease management Promotion of horticultural crops
3	Kundam	Kundam	Kurgaon	Ramtil, Chickpea, Linseed, Mustard, Kodo Kutki and Poultry	Infestation of termite in wheat * Improper use of land under plantation * Pod borer in gram * Wilt in lentil & gram * High seed rate of soybean and wheat. * Old variety used in oilseeds & pulses. * YMV in soybean * Old method of plantation of paddy & soybean, poor productivity of crops, old varieties of minor millets.	Seed Production and replacement Integrated pest & disease management Promotion of horticultural crops
4	Jabalpur	Jabalpur	Jamuniya	Rice, Mustard, Chickea, Lentil	Weed infestation in paddy * Incidence of wilt & rot in gram* Nematode infestation in vegetables* Old variety & low quality seed used.	Seed Production and replacement Integrated pest & disease management Promotion of horticultural crops
5	Jabalpur	Jabalpur	Ghughari	Rice, Mustard, Chickea, Lentil, Poultry	Weed infestation in paddy * Incidence of wilt & rot in gram* Nematode infestation in vegetables* Old variety & low quality seed used.	Seed Production and replacement Integrated pest & disease management Promotion of horticultural crops
6	Jabalpur	Jabalpur	Bargi	Wheat, Rice, Chickpea, Ramtil and Mushroom	Infestation of termite in wheat * Pod borer in gram * Wilt in lentil & gram * High seed rate of soybean and wheat. * Old variety used in oilseeds & pulses. * Old method of plantation of paddy & soybean	Seed Production and replacement Integrated pest & disease management Promotion of horticultural crops
7	Sihora	Sihora	Khagamau	Wheat, Rice, Chickpea, Urd and Moong	Fallow in Rabi, marginal land , poor productivity of crops, old varieties of minor millets	Seed Production and replacement Integrated pest & disease management Promotion of horticultural crops

Priority / Thrust areas

S. No.	Particulars
1.	Seed Production and replacement
2.	Crop diversification and intensification
3.	Integrated farming system
4.	Promotion of horticultural crops
5.	Post harvest technology and value addition
6.	Natural resources management and wasteland development
7.	Integrated pest & disease management
8.	Integrated nutrient management
9.	Organic farming
10.	Rural connecting and market development activities
11.	Farm Mechanization
12.	Women in Agriculture
13.	Integrated Crop Management
14.	Resource Conservation Technology for water management
15.	Livestock feed and disease management

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
33	715	31 (fld)	250

Training		Extension Activities	
140			
Number of Courses	Number of Participants	Number of activities	Number of participants
140	2720	105	mass

Seed Production (Qtl.)	Planting material (Nos.)
-	15000

B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Integrated farming system	Rice, Linseed, Poultry (Kadaknath)	Less income due to mono-cropping (rice-fallow) system and no use of IFS components	Assessment of IFS model for marginal farmers under rainfed situation in mixed red yellow soil					-
2	Resource Conservation Technology for water management	Wheat crop residues	Less income due to mono-cropping (rice-fallow) system and no use of IFS components	Assessment of bio waste decomposer for decomposition of wheat crop residues					-
3	Integrated pest & disease management	Rice	Poor growth and less yield due to leaf folder infestation in rice	Assessment of wild sugarcane (<i>Saccharum spontaneum</i>) in rice for controlling leaf folder					
4	Natural Farming	Wheat cv. JW 3382	Low organic carbon, soil health deterioration and high cultivation cost in current conventional farming	Assessment of Cow urine and Jeevamrutha on the yield and economics of wheat cv. JW 3382 under rice-wheat cropping system in clay loam soil					
5.	Seed	Rice	Low yield and less return	Assessment of					

	Production and replacement		due to use of old rice varieties IR 36/IR 64	scented rice variety Improved Jeerashankar and Improved Chinnor in rice-wheat cropping system					
6.	Seed Production and replacement	Rice	Low yield due to use of old rice varieties IR 36/IR 64	Assessment of rice variety JR 206 in rice-wheat cropping system					
7.	Seed Production and replacement	Chickpea	Low yield of chickpea due to use of old chickpea varieties- JG 315/JG 322	Assessment of chickpea variety JG 24 in raised bed sowing technique under rice-chickpea cropping system					
8.	Seed Production and replacement	Rice	Less crop yield due to use of old varieties and due to attack of insect pest and diseases	Assessments of Rice variety JRB-1 under Rice-Wheat cropping system					
9.	Seed Production and replacement	Kodo Millet	Low productivity of rice through direct seeding	Assessment of Kodo Millet variety JK-137 under Kodo-Linseed cropping system		Seeds treatment in kharif crops		Training	
10	Seed Production and replacement	Chickpea	Less crop yield due to use of old varieties	Assessment of Chickpea variety JG-36 under irrigated condition in Rice-Chickpea cropping system		Seeds treatment in rabi crops		Training	
11.	Seed Production and replacement	Kutki Millet	Less productivity of rice due to direct seeding	Assessment of Kutki variety JK-4 under Kutki-Linseed cropping system		Seed Production technology of Kutki millets		Training	
12	Seed Production and replacement	Cowpea	Use of locally available variety of cowpea	Assessment of HYV variety of cowpea Kashi Nidhi		Production technology of Cowpea		Training	
13.	Seed Production and replacement	Chilli	Use of locally available variety of Chilli	Assessment of HYV variety of Chilli Kashi Abha		Production technology of Chilli		Training	

14.	Seed Production and replacement	Coriander	Use of old and locally variety of coriander	Assessment of HYV of coriander Jawahar Dhania-10		Production technology of Coriander		Training	
15.	Seed Production and replacement	Garlic	Low yield Use of locally available variety of garlic	Assessment of HYV of Garlic G-282		Production technology of Garlic		Training	
16.	Income generation	Tomatoes	Low income due to post harvest losses of Tomato	Assessment of Income generation by processed product of Tomatoes		Value addition of Tomatoes by powder		Training	
17.	Nutritional Security	Gram+Wheat	Low protein diet in children (Rice +Veg.)	Assessment of malted sattu (Sprouted chickpea +Sprouted wheat) for malnourished Children		Preparation and benefits of malted food as supplement ary growing children		Training	
18.	Post harvest manageme nt	Green pea	Low income due to post harvest losses of green pea	Assessment of post harvest management through dehydration of green pea		Preparation and value addition of green pea for income generation		Training	
19.	Income Generation	Kutki	Less income due to getting less market prize of whole Kutki	Assessment of Income generation of processed Kutki Millets		Value addition of Kutki millets by primary processing		Training	
20.	Income generation	Medicated Soap	Low income of farm families	Assessment of income generation through making and selling medicated soap by women SHGs					
21.	Nutritional security	Poshak Nutri bar	Relatively low weight and anaemia	Assessment of Poshak Nutri bar to improve nutritional health of lactating mothers		Importance of blood forming nutrients and nutritious		Training	

						diet lactation period			
22	Nutritional security	Kodo Millet	Low protein diet in women	Assessment of Kodo Millet variety JK-137 for nutritional security of farm families.		Importance of millets its uses in daily diet by different methods		Training	
23	Income generation	Tomato pickle	Due to Low shelf life and inadequate storage facility of fresh tomato, producer get less profit	Assessment of value added tomato pickle for income generation of farm women		Making and processing of value added products from tomato		Training	
24	CBD	Summer, Kharif and Rabi crops	To study the Kisan Call centre Executive working	Assessment of Knowledge and adoption level of working executives of IFFCO- Kisan Call Centre regarding Summer, Kharif and Rabi crops					
25	CBD		Low Performance of Custom Hiring Centers due to non availability of farm implements	Assessment of performance of Custom Hiring Centers in Jabalpur district		To create awareness about smooth functioning of CHCs		Training	
26	ICT	Chickpea	The major problems to the farmers is delayed and lack of audio visual based technical information delivery regarding Pod borer in Chickpea	Assessment of effectiveness of ICT based messages used by farmers regarding protection from Pod borer in Chickpea		Information delivery through whatsapp messages regarding pod borer insect in gram		Training	
27	TOT		Poor knowledge about SHC and their importance	Assessment of adoption level towards Soil Health Card		To create awareness of FPO		Training	

				(SHC) in farming community		members about how to use Soil Health card			
28	ICT	Black Gram	The major problem to the farmers is delayed and lack of audio visual based technical information delivery regarding Insect management in Blackgram Crop	Assessment of ICT Intervention used by farmers regarding Insect management in Blackgram		Information delivery regarding whatsapp messages regarding Blackgram crop		Training	
29	KVK- ATMA Convergence	Paddy	Farmers are not Participating in farmer's field school	Assessment of effectiveness of farmers field school (FFS) on Paddy Production					
30	Group approach		Lack of awareness about income and employment generation of FPO members	Assessment of Pea growers FPO members regarding income and employment generation		Leader ship development of pea based FPO members		Training	
31.	Group approach	Millets	Lack of awareness about income and employment generation of FPO members through Minor millets production	Assessment of FPO members regarding income and employment generation through Minor & Major Millets production		Create awareness of farmers about minor millets		Training	
32	ICT	Urd, Moong & Chickpea, Wheat	The major problems faced by the farmers is lack of two way communication process (Queries) and timely technical information delivery	Assessment of Knowledge and Adoption level of Kisan Sarthi portal users					
33.	ICT	60 Respondents	The major problems of water chestnut growers is delayed and lack of technical information	Study on ICT interventions used by water chestnut growers regarding					

			delivery regarding disease and pest management of Water chest nut crop	disease and pest management of water chestnut crop					
34	Integrated Nutrient Management	Pigeonpea	-		Demonstration of INM on seed and protein yield of transplanted pigeonpea under rainfed uplands in silty clay loam soil	INM in major kharif crops		Training, field day	
35	Integrated Nutrient Management	Wheat			Demonstration of INM on yield and protein content of protein rich wheat variety JW 3288 under rice -wheat cropping system with limited irrigation in clay loam soil	Nutrient deficiency symptoms in rabi crops and its integrated management		Training, field day	
36	Integrated Nutrient Management	Chickpea			Demonstration on integrated nutrient management and raised bed sowing in chickpea variety JG 14 under rice - chickpea cropping sequence in clay loam soil			Training, field day	
37	Integrated Nutrient Management	Wheat			Demonstration on INM in bi-fortified wheat variety HI 8759 under rice-wheat cropping system in clay loam soil			Training, field day	
38	Integrated Crop Management	Rice			Demonstration on improved scented rice variety Pusa 1612 in rice – wheat cropping			Training, field day	

					system				
39	Integrated Weed Management	Blackgram			Demonstration on use of post-emergence herbicide in blackgram			Training, field day	
40	Crop diversification	Pigeonpea			Demonstration of pigeonpea based intercropping system (Pigeonpea + Blackgram) under rainfed farming situation in pigeonpea-chickpea cropping sequence			Training, field day	
41	Integrated Crop Management	Mustard			Demonstration on time of irrigation and nipping management (pre bud stage) in mustard under rice/blackgram-mustard cropping system	INM in mustard and lentil production technology		Training, field day	
42	Crop Production	Mustard	Low Yield of the crop and poor grain quality		Demonstration of Mustard variety RH 0725	Deterioration of crop varieties causes and maintenance during seed production programme		Training	
43	Crop Production	Linseeds	Low Yield of the crop and poor grain quality		Demonstration of Linseeds variety JLS 66			Training	
44	Crop Production	Wheat	Low Yield of the crop and poor grain quality		Demonstration of late sown Wheat variety JW 3336			Training	

45	Integrated crop managemen t	Okra	Low yield and poor fruit quality due to inadequate use of fertilizers and no use of manures		Demonstration on INM on fruit quality and yield of okra variety Kashi Kranti	Production technology of okra		Training	
46	Integrated Nutrient Managemen t	Tomato	Low yield due to use of unsuitable / inappropriate varieties, inadequate use of nutrients and no use of organic manures		Demonstration on INM on yield and quality of high yielding variety of tomato Kashi Aman	Production technology of Tomato		Training	
47	Varietal evaluation	Marigold	Poor income due to unavailability of additional cash crop		Demonstration on marigold variety for income generation during Rabi season	Production technology of Marigold		Training	
48	Integrated Crop Managemen t	Coriander	Low seed yield due to imbalance use of fertilizers		Demonstration on impact of INM in coriander			Training	
49	Nutritional Security	Seasonal Vegetables			Demonstration of Nutritional Kitchen garden at backyard	Nutritional and health benefits of nutrional kitchen kitchen gardening		Training and awareness programme	
50	Nutritional Security	Wheat			Performance of bi-fortified protein rich wheat variety HI 8663 from products for school going children (5-7 year)			Training, Awareness programme	
51	Income Generation	Oyster Mushroom			Performance of Oyster mushroom (<i>Pleurotus ostreatus</i>) in household level			Training , Exhibitions	
52	Income generation	Oyster Mushroom			Performance of value added			Training, Exhibitions	

					products from oyster mushroom				
53	Income Generation	Value added products from Anola			Demonstration of performance of value added products (as Immunity booster) from Anola			Training	
54	Nutrition Security	Bio-fortified wheat variety WB-02			Demonstration of products from bio-fortified wheat variety WB-02 for school going children (6-8 year) to improve their nutritional status			Training	
55	Post Harvest Management	Pro super grain bags			Demonstration of pro super bags /Save bags for safe storage of grain			Training	
56.	ICT		Lack of timely availability of need based information		Study the Performance of NAM Farmers app users in Jabalpur			Capacity building training, Awareness programme, Field visit, messages send through ICT tools etc.	
57	ICT	Blackgram			Dissemination of messages through ICT Tools for farmers regarding Insect pest in summer Blackgram				
58	ICT	Chickpea			Dissemination of messages through ICT Tools for farmers regarding Diseases management in			Capacity building training, Awareness programme,Dignostic visit, Field visit, ICT tools	

					Chickpea				
59	Information Communication Technology	Mustard	Lack of awareness about visual based technical information dissemination through social media Mustard crops.		Impact of visual based technical information dissemination through social media in Mustard Crop			Training	
60	CBD		To study the constraints faced & working of the Kisan Call Centre Executives (FTA)		Study the working of Farm Tele Advisors working for Kisan Call Centre's (M.P.) of IFFCO-KCC located Jabalpur			Training	
61	Information Communication Technology	Green Gram	Lack of awareness about visual based technical information dissemination through social media Green Gram crops.		Impact of visual based technical information dissemination through social media (Whatsapp) in Green Gram Crop			Training	
62	Group Approach	Urd and Chickpea			Impact of Knowledge and adoption of Lease rent farmers regarding Crop production practices			Capacity building training, Awareness programme, Dignostic visit, Field visit, whatsapp messages etc	
63	Group Approach	Pea, Chickpea & Wheat			Impact of Farmers Producer Organization (FPO) regarding commodity based income generation activities			Capacity building training, Diagnostic visit, Awareness programme, Field visit, whats app messages, Mobile calls	
64.	Group Approach	Maize			Fall army worm management in			Capacity building training,	

					Maize: A Convergence Model			Awareness programme, Diagnostic visit, Field visit, ICT tools	
65	Group Approach	Paddy			False smut management in Paddy : A Convergence Model			Capacity building training, Awareness programme, Diagnostic visit, Field visit, ICT tools	

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
RCT	1									1
IPM				1						1
NF	1									1
SP&R	6									6
SR&R			2							2
SP&R					3					3
IG					1					1
TOTAL	8		2	1	4					15

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

Crop / Enterprise	Rice, Linseed, Poultry (Kadakhath) - throughout the year (2023)
Title of on farm trial	Assessment of IFS model for marginal farmers under rainfed situation in mixed red yellow soil
Problem diagnosed	Less income due to mono-cropping (rice-fallow) system and no use of IFS components
Farmers' Practices	Sowing of medium duration rice varieties in <i>kharif</i> and fallow in <i>rabi</i> season
Details of technologies selected for assessment	T ₁ Sowing of medium duration rice varieties in <i>kharif</i> and fallow in <i>rabi</i> season
	T ₂ Rice (JR81) – Linseed (JLS 67) in <i>utera</i>
	T ₃ Rice (JR81) – Linseed (JLS 67) in <i>utera</i> and 25 layers poultry (Kadakhath) in backyard
Source of technology	JNKVV (2018)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.22000/-
Critical input	Seed, poultry (Kadakhath)
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield (q/ha), Net income (Rs/ha/year), Egg/meat production, Net income (Rs/year), B:C ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Wheat crop residues (Kharif 2023)
Title of on farm trial	Assessment of bio waste decomposer for decomposition of wheat crop residues
Problem diagnosed	No use of bio-waste decomposer for residue decomposition, pollution while burning crop residue and soil health deterioration
Farmers' Practices	No use of bio-waste decomposer for wheat crop residue decomposition
Details of technologies selected for assessment	T ₁ No use of bio-waste decomposer for wheat crop residue decomposition
	T ₂ Crop residue straw making by Straw Reaper
	T ₃ Decomposition of crop residue through <i>Bacterial & Fungal base bio-</i>

	waste decomposer @ 500 ml for one tonne raw material
Source of technology	JNKVV (2017)
Plot size	-
No. of farmers	5
Total cost	Rs.5000/-
Critical input	Bacterial & Fungal base bio waste decomposer
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Duration of decomposition (days), OC (%), Nutrient (NPK) content (%), nutrient cost of decomposed compost, additional cost in straw making, Net Return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Rice (Kharif 2023)
Title of on farm trial	Assessment of wild sugarcane (<i>Saccharum spontaneum</i>) in rice for controlling leaf folder (IIIrd Year)
Problem diagnosed	Poor growth and less yield due to leaf folder infestation in rice
Farmers' Practices	Faulty or no control measures for leaf folder
Details of technologies selected for assessment	T ₁ Faulty or no control measures for leaf folder T ₂ Planting of wild sugarcane (<i>Saccharum spontaneum</i>) at 7 and 14 DAT T ₃ Spray of imidacloprid 17.8 SL 0.05 kg a.i./ha
Source of technology	CRRI Cuttack (2005)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.3500/-
Critical input	Insecticide (imidacloprid)
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of tillers/hill, No. of leaf folder larvae/m, Seed yield (q/ha), Net Return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Wheat cv. JW 3382 (Rabi 2023-24)
Title of on farm trial	Assessment of Cow urine and Jeevamrutha on the yield and economics of wheat cv. JW 3382 under rice-wheat cropping system in clay loam soil
Problem diagnosed	Low organic carbon, soil health deterioration and high cultivation cost in current conventional farming
Farmers' Practices	Use of NPK @ 69:58:0 kg/ha [125 kg DAP (18:46:0), 100 kg urea /ha] in irrigated wheat
Details of technologies selected for assessment	T ₁ Use of NPK @ 69:58:0 kg/ha [125 kg DAP (18:46:0), 100 kg urea /ha] in irrigated wheat T ₂ RDF through Urea, DAP, and MOP @ 100:60:40 Kg NPK/ha T ₃ Seed treatment with <i>Beejamrutha</i> , application of <i>Ghanajeevamrutha</i> @ 1000 kg/ha in two equal splits during sowing and at 30 DAS, mulching with crop residues @ 5 t/ha after interculture and soil drenching of cow urine (50%) + <i>Jeevamrutha</i> (100%) - 5 times @ 500 l/ha at every 21 days interval from 21 to 105 days crop stage
Source of technology	UASD (2022)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.22000/-
Critical input	Seed, Plastic drum
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Soil pH, EC (dS/m), SOM (%), OC (%), Microbial biomass (pre-sowing & post harvest), No. of tillers/plant, Yield (q/ha), Net Return (Rs/ha), cost saving in T3, B:C ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Rice (Kharif 2023)
Title of on farm trial	Assessment of scented rice variety Improved Jeerashankar and Improved Chinnor in rice-wheat cropping system
Problem diagnosed	Low yield and less return due to use of old rice varieties IR 36/IR 64
Farmers' Practices	Use of old rice varieties IR 36/IR 64
Details of technologies selected for assessment	T ₁ Use of old rice varieties IR 36/IR 64
	T ₂ Improved Jeerashankar
	T ₃ Improved Chinnor
Source of technology	JNKVV (2018)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.8000/-
Critical input	Seed
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Tillers/plant (no.), Panicle/plant (no.), Seed yield (q/ha), Net return (Rs/ha), B:C Ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Rice (Kharif 2023)
Title of on farm trial	Assessment of rice variety JR 206 in rice-wheat cropping system
Problem diagnosed	Low yield due to use of old rice varieties IR 36/IR 64
Farmers' Practices	Use of old rice varieties IR 36/IR 64
Details of technologies selected for assessment	T ₁ Use of old rice varieties IR 36/IR 64
	T ₂ Rice variety JR 206
	T ₃
Source of technology	JNKVV (2019)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.8000/-
Critical input	Seed
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Tillers/plant (no.), Panicle/plant (no.), Seed yield (q/ha), Net return (Rs/ha), B:C Ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Chickpea (Rabi 2023-24)
Title of on farm trial	Assessment of chickpea variety JG 24 in raised bed sowing technique under rice-chickpea cropping system
Problem diagnosed	Low yield of chickpea due to use of old chickpea varieties- JG 315/JG 322
Farmers' Practices	Flat bed sowing of old chickpea varieties JG 315/JG 322
Details of technologies selected for assessment	T ₁ Flat bed sowing of old chickpea varieties JG 315/JG 322
	T ₂ Raised bed sowing of chickpea variety JG 24
	T ₃
Source of technology	JNKVV (2019)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.18000/-
Critical input	Seed
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Branches/plant (no.), Pods/plant (no.), Seed yield (q/ha), Net return (Rs/ha), B:C Ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Rice
Title of on farm trial	Assessments of Rice variety JRB-1 under Rice-Wheat cropping system
Problem diagnosed	Less crop yield due to use of old varieties and due to attack of insect pest and diseases
Farmers' Practices	Use of Old variety (MTU 1010)
Details of technologies selected for assessment	T₁ Use of Old variety (MTU 1010) T₂ Rice cv. JRB 1 (Matures in 120-125 days, high yielding 56 q/ha, Bold seeded with multiple resistance to diseases and insect-pests. Tolerant to lodging coupled with high nitrogen use efficiency (150kg ha⁻¹ RDN) despite this, low yield reduction in poor nitrogen supply. Suitable for poha making)
Source of technology	JNKVV (2015)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.15000/-
Critical input	Seed
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Spikelets/panicle, No. of tillers/plant, yield (q/ha), NR (Rs./ha), B:C Ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Kodo Millet
Title of on farm trial	Assessment of Kodo Millet variety JK-137 under Kodo-Linseed cropping system
Problem diagnosed	Low productivity of rice through direct seeding
Farmers' Practices	Use of Old variety (MTU 1010)
Details of technologies selected for assessment	T₁ Use of Old variety (MTU 1010) T₂ Kodo cv. JK 137 Matures in 102-107 days, H.Y (29 q/ha), resistance to drought and tolerant to diseases.
Source of technology	JNKVV (2015)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.8000/-
Critical input	Seed
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	No.of productive tillers/plant, NR(Rs/ha), B:C ratio and seed yield per plant

Details of On Farm Trial (OFT)

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Chickpea variety JG-36 under irrigated condition in Rice-Chickpea cropping system
Problem diagnosed	Less crop yield due to use of old varieties
Farmers' Practices	Use of Old variety (JG-130)
Details of technologies selected for assessment	T₁ Use of Old variety (JG-130) T₂ Chickpea cv. JG 36 (Yield 18-20 q/ha, maturity 110-120 days, Semi spreading plant with dark brown seed. Tolerant to wilt)
Source of technology	JNKVV (2016)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.16000/-

Critical input	Seed
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	No.of seeds /pod, No. of pods/plant, yield (q/ha), NR (Rs./ha), B:C Ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Kutki Millet
Title of on farm trial	Assessment of Kutki variety JK-4 under Kutki-Linseed cropping system
Problem diagnosed	Less productivity of rice due to direct seeding
Farmers' Practices	Use of Old variety (MTU 1010)
Details of technologies selected for assessment	T ₁ Use of Old variety (MTU 1010) T ₂ Kutki cv. JK-4 (Matures in 75-80 days, yield 13-15q/ha suitable for sole as well as intermixed cropping, responsive to NPK, resistance to drought, lodging and key pest shoot fly and moderately resistant to head smut.)
Source of technology	JNKVV (2017)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.8000/-
Critical input	Seed
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	No. of productive tillers/plant, NR (Rs/ha), B:C ratio and seed yield per plant.

Details of On Farm Trial (OFT)

Crop / Enterprise	Cowpea
Title of on farm trial	Assessment of HYV variety of cowpea Kashi Nidhi
Problem diagnosed	Use of locally available variety of cowpea
Farmers' Practices	Use of locally available variety of cowpea
Details of technologies selected for assessment	T ₁ Use of locally available variety of cowpea T ₂ Use of cowpea variety Kashi Nidhi
Source of technology	IIVR, 2012
Plot size	800sqm
No. of farmers	05
Total cost	9000/-
Critical input	Seed
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	yield (q/ha), NR (Rs./ha), B:C Ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Chilli
Title of on farm trial	Assessment of HYV variety of Chilli Kashi Abha (1st year)
Problem diagnosed	Use of locally available variety of Chilli
Farmers' Practices	Use of locally available variety of Chilli
Details of technologies selected for assessment	T ₁ Use of locally available variety of Chilli T ₂ Use of variety of Chilli Kashi Abha
Source of technology	IIVR, 2019
Plot size	800 sqm
No. of farmers	05

Total cost	7000/-
Critical input	Seed
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	fruit weight (g), Yield (q/ha), NR (Rs./ha), B:C ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Coriander
Title of on farm trial	Assessment of HYV of coriander Jawahar Dhania-10
Problem diagnosed	Use of old and locally variety of coriander
Farmers' Practices	Use of old and locally variety of coriander
Details of technologies selected for assessment	T ₁ Use of old and locally variety of coriander T ₂ Coriander variety Jawahar Dhania-10
Source of technology	JNKVV 2020
Plot size	800 sqm
No. of farmers	05
Total cost	9000/-
Critical input	Seed
Performance indicators: (xl) Technical- yield (q/ ha) (xli) Economic (xlii) Social – Employment generation	Yield (q/ha), NR (Rs./ha), B:C Ratio

Details of On Farm Trial (OFT)

Crop / Enterprise	Garlic
Title of on farm trial	Assessment of HYV of Garlic G-282
Problem diagnosed	Low yield Use of locally available variety of garlic
Farmers' Practices	Use of locally available variety of garlic
Details of technologies selected for assessment	T ₁ Use of locally available variety of garlic T ₂ Use of garlic variety G-282
Source of technology	NHRDF
Plot size	800 sqm
No. of farmers	05
Total cost	18000/-
Critical input	Seed
Performance indicators: (xlili) Technical- yield (q/ ha) (xliv) Economic (xlv) Social – Employment generation	Yield (q/ha), NR (Rs./ha), B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Breeding and Genetics
Title of on-farm trial:	Assessments of Rice variety JRB-1 under Rice-Wheat cropping system
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Less crop yield due to use of old varieties and due to attack of insect pest and diseases
Thematic area:	Varietal Evaluation
No of trials:	05

No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 Use of Old variety (MTU 1010)
T2 –Recommended Practice-	T2: Rice cv. JRB 1 (Matures in 120-125 days, high yielding 56 q/ha, Bold seeded with multiple resistance to diseases and insect-pests. Tolerant to lodging coupled with high nitrogen use efficiency (150kg ha-1 RDN) despite this, low yield reduction in poor nitrogen supply. Suitable for poha making)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2015)
Characteristics of technology:	Rice cv. JRB 1 (Matures in 120-125 days, high yielding 56 q/ha, Bold seeded with multiple resistance to diseases and insect-pests. Tolerant to lodging coupled with high nitrogen use efficiency (150kg ha-1 RDN) despite this, low yield reduction in poor nitrogen supply. Suitable for poha making)
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Plant Breeding and Genetics
Title of on-farm trial:	Assessment of Kodo Millet variety JK-137 under Kodo-Linseed cropping system
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low productivity of rice through direct seeding
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Old variety (MTU 1010)
T2 –Recommended Practice-	T2: Kodo cv. JK 137 Matures in 102-107 days, H.Y (29 q/ha), resistance to drought and tolerant to diseases.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2015)
Characteristics of technology:	Kodo cv. JK 137 Matures in 102-107 days, H.Y (29 q/ha), resistance to drought and tolerant to diseases.
Name of Crop/Enterprises:	Kodo Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Plant Breeding and Genetics
Title of on-farm trial:	Assessment of Chickpea variety JG-36 under irrigated condition in Rice-Chickpea cropping system.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Less crop yield due to use of old varieties
Thematic area:	Varietal Evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 : Use of Old variety (JG-130)
T2 –Recommended Practice-	T2: Chickpea cv. JG 36 (Yield 18-20 q/ha, maturity 110-120 days, Semi spreading plant with dark brown seed. Tolerant to wilt)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2016)
Characteristics of technology:	T2: Chickpea cv. JG 36 (Yield 18-20 q/ha, maturity 110-120 days, Semi spreading plant with dark brown seed. Tolerant to wilt)
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Plant Breeding and Genetics
Title of on-farm trial:	Assessment of Kutki variety JK-4 under Kutki-Linseed cropping system
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Less productivity of rice due to direct seeding
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Use of Old variety (MTU 1010)
T2 –Recommended Practice-	T2: Kutki cv. JK-4 (Matures in 75-80 days, yield 13-15q/ha suitable for sole as well as intermixed cropping, responsive to NPK, resistance to drought, lodging and key pest shoot fly and moderately resistant to head smut.)

T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2017)
Characteristics of technology:	(Matures in 75-80 days, yield 13-15q/ha suitable for sole as well as intermixed cropping, responsive to NPK, resistance to drought, lodging and key pest shoot fly and moderately resistant to head smut.)
Name of Crop/Enterprises:	Kutki Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of IFS model for marginal farmers under rainfed situation in mixed red yellow soil
Year/Season:	Throughout the year (2023)
Farming situation:	Rainfed
Problem diagnosis:	Less income due to mono-cropping (rice-fallow) system and no use of IFS components
Thematic area:	Mixed Farming - IFS
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing of medium duration rice varieties in <i>kharif</i> and fallow in <i>rabi</i> season
T2 –Recommended Practice-	T2: Rice (JR81) – Linseed (JLS 67) in <i>utera</i>
T3- Recommended Practice-	T3: Rice (JR81) – Linseed (JLS 67) in <i>utera</i> and 25 layers poultry (Kadakhnath) in backyard
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2018)
Characteristics of technology:	T2: Rice (JR81) – Linseed (JLS 67) in <i>utera</i> T3: Rice (JR81) – Linseed (JLS 67) in <i>utera</i> and 25 layers poultry (Kadakhnath) in backyard
Name of Crop/Enterprises:	Rice, Linseed, Poultry (Kadakhnath)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of bio waste decomposer for decomposition of wheat crop residues

Year/Season:	Kharif 2023
Farming situation:	All situations
Problem diagnosis:	No use of bio-waste decomposer for residue decomposition, pollution while burning crop residue and soil health deterioration
Thematic area:	Resource conservation Technology
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of bio-waste decomposer for wheat crop residue decomposition
T2 –Recommended Practice-	T2: Crop residue straw making by Straw Reaper
T3- Recommended Practice-	T3: Decomposition of crop residue through <i>Bacterial & Fungal base bio-waste</i> decomposer @ 500 ml for one tonne raw material
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2017)
Characteristics of technology:	Decomposition of crop residue through <i>Bacterial & Fungal base bio-waste</i> decomposer @ 500 ml for one tonne raw material
Name of Crop/Enterprises:	Wheat crop residues
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	-

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of wild sugarcane (<i>Saccharum spontaneum</i>) in rice for controlling leaf folder
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Poor growth and less yield due to leaf folder infestation in rice
Thematic area:	Integrated Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Faulty or no control measures for leaf folder
T2 –Recommended Practice-	T2: Planting of wild sugarcane (<i>Saccharum spontaneum</i>) at 7 and 14 DAT
T3- Recommended Practice-	T3: Spray of imidacloprid 17.8 SL 0.05 kg a.i./ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CRRRI Cuttack (2005)
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	-

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Cow urine and Jeevamrutha on the yield and economics of wheat cv. JW 3382 under rice-wheat cropping system in clay loam soil
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low organic carbon, soil health deterioration and high cultivation cost in current conventional farming
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of NPK @ 69:58:0 kg/ha [125 kg DAP (18:46:0), 100 kg urea /ha] in irrigated wheat
T2 –Recommended Practice-	T2: RDF through Urea, DAP, and MOP @ 100:60:40 Kg NPK/ha
T3- Recommended Practice-	T3: Seed treatment with <i>Beejamrutha</i> , application of <i>Ghanajeevamrutha</i> @ 1000 kg/ha in two equal splits during sowing and at 30 DAS, mulching with crop residues @ 5 t/ha after interculture and soil drenching of cow urine (50%) + <i>Jeevamrutha</i> (100%) - 5 times @ 500 l/ha at every 21 days interval from 21 to 105 days crop stage
Date of sowing:	-
Date of harvesting:	-
Source of technology:	UASD (2022)
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of scented rice variety Improved Jeerashankar and Improved Chinnor in rice-wheat cropping system
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield and less return due to use of old rice varieties IR 36/IR 64
Thematic area:	Varietal Evaluation

No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old rice varieties IR 36/IR 64
T2 –Recommended Practice-	T2: Improved Jeerashankar
T3- Recommended Practice-	T3: Improved Chinnor
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of rice variety JR 206 in rice-wheat cropping system
Year/Season:	(Kharif 2023)
Farming situation:	
Problem diagnosis:	Low yield due to use of old rice varieties IR 36/IR 64
Thematic area:	Varietal Evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old rice varieties IR 36/IR 64
T2 –Recommended Practice-	T2: Rice variety JR 206
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2019)
Characteristics of technology:	Suitable for rainfed and irrigated ecologies, average yield 55.0-60.0 q/ha, long bold grains, maturity 120-122 days, resistant to bunt and blast
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of chickpea variety JG 24 in raised bed sowing technique under rice-chickpea cropping system
Year/Season:	Rabi 2023-24

Farming situation:	Irrigated
Problem diagnosis:	Low yield of chickpea due to use of old chickpea varieties- JG 315/JG 322
Thematic area:	Varietal Evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Flat bed sowing of old chickpea varieties JG 315/JG 322
T2 –Recommended Practice-	T2: Raised bed sowing of chickpea variety JG 24
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2019)
Characteristics of technology:	Raised bed sowing of chickpea variety JG 24
Name of Crop/Enterprises:	chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	-

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessments of Rice variety JRB-1 under Rice-Wheat cropping system (2nd year)
Year/Season:	
Farming situation:	Rainfed
Problem diagnosis:	Less crop yield due to use of old varieties and due to attack of insect pest and diseases
Thematic area:	Varietal Evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	Rice cv. JRB 1 (Matures in 120-125 days, high yielding 56 q/ha, Bold seeded with multiple resistance to diseases and insect-pests. Tolerant to lodging coupled with high nitrogen use efficiency (150kg ha-1 RDN) despite this, low yield reduction in poor nitrogen supply. Suitable for poha making)
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, 2015
Characteristics of technology:	Rice cv. JRB 1 (Matures in 120-125 days, high yielding 56 q/ha, Bold seeded with multiple resistance to diseases and insect-pests. Tolerant to lodging coupled with high nitrogen use efficiency

	(150kg ha ⁻¹ RDN) despite this, low yield reduction in poor nitrogen supply. Suitable for poha making)
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of HYV variety of cowpea Kashi Nidhi
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Use of locally available variety of cowpea
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of locally available variety of cowpea
T2 –Recommended Practice-	Use of cowpea variety Kashi Nidhi
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR, 2012
Characteristics of technology:	Plants are dwarf, erect and bushy, tolerant to Golden mosaic virus and Pseudocercospora, Yield 140- 150q/ha
Name of Crop/Enterprises:	Cowpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of HYV variety of Chilli Kashi Abha
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Use of locally available variety of Chilli
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of locally available variety of Chilli
T2 –Recommended Practice-	Use of variety of Chilli Kashi Abha
T3- Recommended Practice-	

Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR, 2019
Characteristics of technology:	Fruits are short and highly pungent, tolerant to thrips , mites and anthracnose, Yield 15t/ha
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of HYV of coriander Jawahar Dhania-10
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Use of old and locally variety of coriander
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of locally available variety of coriander
T2 –Recommended Practice-	Coriander variety Jawahar Dhania-10
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV 2020
Characteristics of technology:	Semi- spreading in growth habit, dense and dark green foliage , resistant to powdery mildew and stem gall, yield 14-15q/ha
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of HYV of Garlic G-282 (2nd year)
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield Use of locally available variety of garlic
Thematic area:	Varietal evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old variety of garlic
T2 –Recommended Practice-	Use of garlic variety G-282

T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NHRDF
Characteristics of technology:	Creamy white in colour, matures in 120-130 days, yield potential 170-200 q/ha
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Name of Discipline	Agriculture Extension
Title	Assessment of Whatsapp messages used by farmers regarding Fall army worm in Maize
Season & Year	<i>Kharif 2023</i>
Problem identified	The major problems to the farmers is delayed and lack of audio visual based technical information delivery regarding fall army worm in maize
Thematic Area	ICT
Objective	➤ To study the profile of the whatsapp user maize growers ➤ To study the contents of shared whatsapp messages regarding fall army worm in maize. ➤ To study the constraints faced by whatsapp user regarding fall army worm in maize
Farming situation	Irrigated
Name of Technology under study	Share the agricultural practices on fall army worm of maize production through whatsapp message like audio, video, text message & photographs etc
Farmers Practice	Individual user
No. of replication (Farmers)	80 Respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of Whatsapp user ➤ Management practices of Maize crops ➤ Factors affecting the smooth functioning of whatsapp group ➤ Knowledge & Adoption level of whatsapp user regarding fall army worm in maize crops ➤ Attitude of whatsapp users regarding fall army worm in maize ➤ Decision making ability of whatsapp users regarding fall army worm in maize ➤ Constraints faced by whatsapp users regarding sent messages of fall army worm in maize crop ➤ Through pre tested questionnaire , interview schedule	Freq. & Percentage - Freq. & Percentage Low, Medium & High Favourable, Highly favourable & Unfavourable Low, Medium & High Freq. Percentage & Rank

Information about Extension OFT:

Name of Discipline	Agriculture Extension
Title	Assessment of Whatsapp messages used by farmers regarding False smut of Paddy
Season & Year	<i>Kharif 2023</i>
Problem identified	The major problems to the farmers is delayed and lack of audio visual based technical information delivery regarding false smut of paddy crops
Thematic Area	ICT
Objective	➤ To study the profile of the whats app user paddy groweres ➤ To study the sent/ shared whatsapp messages regarding false smut of paddy crop ➤ To study the constraints faced by whatsapp user regarding false smut of paddy crops
Farming situation	Irrigated
Name of Technology under study	Share the agricultural practices on false smut of paddy through whats app message through message, audio, video, photo etc
Farmers Practice	Individual user
No. of replication (Farmers)	80 Respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of Whatsapp user ➤ Management practices of false smut of paddy crops ➤ Factors affecting the smooth functioning of whats app group ➤ Knowledge & Adoption level of whatsapp user regarding false smut of paddy ➤ Attitude of whatsapp users regarding false smut of paddy crop ➤ Decision making ability of whatsapp users regarding false smut of paddy crops ➤ Constraints of whats app messages regarding regarding false smut of paddy	Freq. & Percentage - Freq. & Percentage Low, Medium & High Favourable, Highly favourable &Un favourable Low, Medium & High Frequency, Percentage & Rank

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of Social media messages used by farmers regarding Oilseed crops
Season & Year	<i>Rabi 2023-24</i>
Problem identified	The major problems faced by the farmers are delayed and lack of technical information delivery and low productivity in oilseed crops.
Thematic Area	ICT
Objective	➤ To study the socio economic profile of the Social media user Oilseed growers ➤ To study the knowledge & adoption of Social media users regarding Oilseed crop ➤ To study the constraints faced by Social media user regarding Oilseed crops
Farming situation	Irrigated/Rainfed
Name of Technology	Share the agricultural information on Oilseed crops

under study	
Farmers Practice	Non user of Social media
No. of replication (Farmers)	90 Respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of Social media user ➤ Management practices of Mustard & Linseed crops ➤ Knowledge & Adoption level of Social media user regarding Oilseed ➤ Attitude of Social media users regarding Oilseed crops ➤ Decision making ability of Social media users regarding Oilseed production ➤ Constraints of Social media messages regarding Oilseeds	Freq. & Percentage Freq. & Percentage Low, Medium & High Favourable, Highly favourable & Unfavourable Low, Medium & High Frequency, Percentage & Rank

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of Pea growers Farmers Producer Organization (FPO) regarding income and employment generation
Season & Year	<i>Rabi 2023-24</i>
Problem identified	Lack of awareness about income and employment generation of FPO members.
Thematic Area	Group approach
Objective	➤ To study the profile of the FPO and FPO members ➤ To study about the assessment of Pea based income generation activities of FPO ➤ To study the major constraints & Issues of FPOs
Farming situation	Irrigated
Name of Technology under study	Assessment on Pea growers Farmers Producer Organization (FPO) regarding income and employment generation
Farmers Practice	Unorganized farming
No. of replication (Farmers)	90 respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of FPO ➤ Income and employment generation ➤ Knowledge & Adoption level of FPO members ➤ Decision making ability of FPO members ➤ Leadership ability of FPO members ➤ Major constraints & Issues of FPOs ➤ Feed back	Freq. & Percentage Rs/Annum & Low, Medium & High Low, Medium & High Low, Medium & High Low, Medium & High Freq., Percentage & Ranks

Information about Extension OFT:

Name of Discipline	Agriculture Extension
Title	Assessment of effectiveness of farmers field school (FFS) on Paddy Production.
Season & Year	<i>Kharif 2023</i>
Problem identified	Farmers are not Participating in farmer's field school.

Thematic Area	KVK- ATMA Convergence
Farming situation	Irrigated
Name of Technology Intervention under study	Farmers learn in local situation, face to face conversation; practical based direct problem solving learning takes place.
☒ Farmers Practice	Farmers are not Participating in farmers' field school
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
1.Extend of adoption 2.Knowledge level 3.Change in Skill 4.Change in attitude 5.Feed back of FFS Farmers	Low, Medium, High Low, Medium, High Low, Medium, High Freq. & Percentage

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of WhatsApp messages used by farmers regarding Insect pest in Kharif Black gram
Season & Year	<i>Kharif 2023</i>
Problem identified	The major problems to the farmers is delayed and lack of audio visual based technical information delivery regarding Insect pest in Black gram
Thematic Area	ICT (CBD)
Farming situation	-
Name of Technology Intervention under study	Timely Share the agricultural practices on Insect pest in Blackgram Crop through whats'app message like audio, video, text message & photographs etc timely as per situation
☒ Farmers Practice	No use of Whats App for Pest control in Black gram.
No. of replication (Farmers)	50+50 (Control)

Results / findings

Performance indicators/ parameters	Unit/ details
Content of the Message Time of the Message sent Visibility of the content No. of total message sent Need of the message Feedback message of farmers	-

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of effectiveness of ICT based messages used by farmers regarding protection from Pod borer in Chickpea
Season & Year	Rabi 2023-24
Problem identified	The major problem to the farmers is delayed and lack of audio visual based technical information delivery regarding Pod borer in Chickpea.
Thematic Area	ICT (CBD)
Farming situation	Irrigated
Name of Technology Intervention under study	Share the agricultural practices on Pod borer in chickpea production through ICT based message like audio, video, text message & photographs etc. and Capacity building
▣ Farmers Practice	Un authentic Information sources regarding Pod borer in Chickpea
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
➤ No. of Whats'app user / Messages Sent ➤ Management practices of Gram crop by respondents ➤ Knowledge & Adoption level of whatsapp user Pod borer in Gram ➤ Attitude of whatsapp users regarding Pod borer in Gram ➤ Decision making ability of whatsapp users regarding Pod borer in Gram ➤ Constraints faced by whats'app users regarding sent messages Pod borer in Gram	-

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of adoption level towards Soil Health Card (SHC) in farmers Fertilizer Application
Season & Year	Rabi 2023-24
Problem identified	Poor knowledge about SHC and their importance
Thematic Area	TOT
Farming situation	Irrigated
Name of Technology Intervention under study	Use of SHC based recommendation
▣ Farmers Practice	Farmers use blanket & un appropriate use of SHC recommendation
No. of replication (Farmers)	50

Results/ findings

Performance indicators/ parameters	Unit/ details

• Adoption level • Knowledge level • Constraints • Feedback	-

Information about Extension OFT:

Name of Discipline	Agriculture Extension
Title	Assessment of Whatsapp messages used by farmers regarding Fall army worm in Maize
Season & Year	<i>Kharif 2023</i>
Problem identified	The major problems to the farmers is delayed and lack of audio visual based technical information delivery regarding fall army worm in maize
Thematic Area	ICT
Objective	➤ To study the profile of the whatsapp user maize growers ➤ To study the contents of shared whatsapp messages regarding fall army worm in maize. ➤ To study the constraints faced by whatsapp user regarding fall army worm in maize
Farming situation	Irrigated
Name of Technology under study	Share the agricultural practices on fall army worm of maize production through whatsapp message like audio, video, text message & photographs etc
Farmers Practice	Individual user
No. of replication (Farmers)	80 Respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of Whatsapp user ➤ Management practices of Maize crops ➤ Factors affecting the smooth functioning of whatsapp group ➤ Knowledge & Adoption level of whatsapp user regarding fall army worm in maize crops ➤ Attitude of whatsapp users regarding fall army worm in maize ➤ Decision making ability of whatsapp users regarding fall army worm in maize ➤ Constraints faced by whatsapp users regarding sent messages of fall army worm in maize crop ➤ Through pre tested questionnaire , interview schedule	Freq. & Percentage - Freq. & Percentage Low, Medium & High Favourable, Highly favourable & Un favourable Low, Medium & High Freq. Percentage & Rank

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of Whatsapp messages used by farmers regarding False smut of Paddy
Season & Year	<i>Kharif 2023</i>
Problem identified	The major problems to the farmers is delayed and lack of audio visual based technical information delivery regarding false smut of paddy crops

Thematic Area	ICT
Objective	➤ To study the profile of the whats app user paddy growers ➤ To study the sent/ shared whatsapp messages regarding false smut of paddy crop ➤ To study the constraints faced by whatsapp user regarding false smut of paddy crops
Farming situation	Irrigated
Name of Technology under study	Share the agricultural practices on false smut of paddy through whats app message through message, audio, video, photo etc
Farmers Practice	Individual user
No. of replication (Farmers)	80 Respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of Whatsapp user ➤ Management practices of false smut of paddy crops ➤ Factors affecting the smooth functioning of whats app group ➤ Knowledge & Adoption level of whatsapp user regarding false smut of paddy ➤ Attitude of whatsapp users regarding false smut of paddy crop ➤ Decision making ability of whatsapp users regarding false smut of paddy crops ➤ Constraints of whats app messages regarding regarding false smut of paddy	Freq. & Percentage - Freq. & Percentage Low, Medium & High Favourable, Highly favourable & Un favourable Low, Medium & High Frequency, Percentage & Rank

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of Social media messages used by farmers regarding Oilseed crops
Season & Year	Rabi 2023-24
Problem identified	The major problems faced by the farmers are delayed and lack of technical information delivery and low productivity in oilseed crops.
Thematic Area	ICT
Objective	➤ To study the socio economic profile of the Social media user Oilseed growers ➤ To study the knowledge & adoption of Social media users regarding Oilseed crop ➤ To study the constraints faced by Social media user regarding Oilseed crops
Farming situation	Irrigated/Rainfed
Name of Technology under study	Share the agricultural information on Oilseed crops
Farmers Practice	Non user of Social media
No. of replication (Farmers)	90 Respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of Social media user	Freq. & Percentage

➤ Management practices of Mustard & Linseed crops ➤ Knowledge & Adoption level of Social media user regarding Oilseed ➤ Attitude of Social media users regarding Oilseed crops ➤ Decision making ability of Social media users regarding Oilseed production ➤ Constraints of Social media messages regarding Oilseeds	Freq. & Percentage Low, Medium & High Favourable, Highly favourable & Unfavourable Low, Medium & High Frequency, Percentage & Rank

Information about Extension OFT

Name of Discipline	Agriculture Extension
Title	Assessment of Pea growers Farmers Producer Organization (FPO) regarding income and employment generation
Season & Year	2022
Problem identified	Lack of awareness about income and employment generation of FPO members.
Thematic Area	Group approach
Objective	➤ To study the profile of the FPO and FPO members ➤ To study about the assessment of Pea based income generation activities of FPO ➤ To study the major constraints & Issues of FPOs
Farming situation	Irrigated
Name of Technology under study	Assessment on Pea growers Farmers Producer Organization (FPO) regarding income and employment generation
Farmers Practice	Unorganized farming
No. of replication (Farmers)	90 respondents

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of FPO ➤ Income and employment generation ➤ Knowledge & Adoption level of FPO members ➤ Decision making ability of FPO members ➤ Leadership ability of FPO members ➤ Major constraints & Issues of FPOs ➤ Feed back	Freq. & Percentage Rs/Annum & Low, Medium & High Low, Medium & High Low, Medium & High Low, Medium & High Freq., Percentage & Ranks

Information about Home Science OFT:

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Income generation by processed product of Tomatoes
Year/Season:	Rabi 2023-24
Problem diagnosis:	Low income due to post harvest losses of Tomato
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Fresh selling of Tomato

T2 –Recommended Practice-	T2 Tomato Powder T3 Tomato puree
Source of technology:	Post Harvest Technology Centre, TNAU, Coimbatore. 2015
Characteristics of technology:	T2 Tomato Powder (Fully ripe and firm tomatoes were washed well in running tap water. Then it was cut into small pieces, Treated to KMS solution (0.02%) and dried in the cabinet drier at 80oC for 10 hours. The dehydrated pieces were then ground into powder.) T3 Tomato puree: Fully ripe tomatoes, pre cooking(10 min at 100°C Sieving, pasteurizing, Concentration ,Packaging ,Storage)
Name of Crop/Enterprises:	Tomato
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	--
Feedback	

Information about Home Science OFT

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of malted sattu (Sprouted chickpea +Sprouted wheat) for malnourished Children
Year/Season:	Rabi 2023-24
Problem diagnosis:	Low protein diet in children (Rice +Veg.)
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Rice +Veg. in diet
T2 –Recommended Practice-	T2 Plain sattu T3 Malted sattu
Source of technology:	CFTRI,Mysore-2012
Characteristics of technology:	Sprouted chickpea-15 gm+ sprouted wheat-15 gm + Jaggery 10 gm@40 gm/day/child for 3 month(fulfilling 29% requirement of RDA)
Name of Crop/Enterprises:	Gram+Wheat
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT

Name of Discipline	Home Science

Title of on-farm trial:	Assessment of post harvest management through dehydration of green pea
Year/Season:	Rabi 2023
Problem diagnosis:	Low income due to post harvest losses of green pea.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Post harvest management
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Fresh selling of green pea.
T2 –Recommended Practice-	T2 Dehydration by Solar Drying of green pea T3 Dehydration by Cabinet Drying of green pea
Source of technology:	CGKV, Raipur 2012
Characteristics of technology:	Green peas have 70-75 % wet basis moisture with pretreatment by blanch and 0. 49%KMS concentration drying in the solar-dryer at a temperature of 45 °C for 2 days.
Name of Crop/Enterprises:	Green pea
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Income generation of processed <i>Kutki</i> Millets
Year/Season:	Rabi 2023
Problem diagnosis:	Less income due to getting less market prize of whole <i>Kutki</i>
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income Generation
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Selling of Un processed <i>Kutki</i> (Raw)
T2 –Recommended Practice-	Processed <i>Kutki</i> Millets
Source of technology:	CIAE, Coimbatore 2013
Characteristics of technology:	Cleaning, dehulling, dehushing, polishing of <i>Kutki</i> Processing of high quality and recovery of 40-45 % and packaging
Name of Crop/Enterprises:	<i>Kutki</i>
Farming situation:	Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-

Information about Home Science OFT:

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of income generation through making and selling medicated soap by women SHGs
Year/Season:	Kharif 2023
Problem diagnosis:	No income generation activity undertaken by SHGs members
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No income generation activity by SHGs members
T2 –Recommended Practice-	Making and selling of medicated soap
Source of technology:	NTFP, IGKV, Raipur 2020
Characteristics of technology:	Making and selling of medicated soap acknowledge the financial assistance to self help group. Commercial soap contains paraben and sulphates, therefore medicated soaps prepared by natural ingredients i.e. Neem , Alovera and Turmeric which has commercial and medicinal value also.
Name of Crop/Enterprises:	Medicated Soap
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Poshak Nutri bar to improve nutritional health of lactating mothers.
Year/Season:	Kharif 2023
Problem diagnosis:	Relatively low weight and anemia
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Low protein and iron diet during lactation period.
T2 –Recommended Practice-	Poshak Nutri bar
Source of technology:	Department of Home Science DDUGU,Gorakhpur,U.P.

Characteristics of technology:	Poshak Nutri bar prepared with sprouted wheat,Besan(chana) and jaggery which is high in protein , calories,iron and vitamins.
Name of Crop/Enterprises:	Poshak Nutri bar
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Kodo Millet variety JK-137 for nutritional security of farm families.
Year/Season:	Rabi 2023
Problem diagnosis:	Low protein diet in women
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use kodo millet in their diet .
T2 –Recommended Practice-	Kodo Upama with vegetables
Source of technology:	JNKVV 2015
Characteristics of technology:	Kodo millet variety JK-137 is high in protein (11%) and iron(32%).It is also rich in niacin, folic acid, calcium, potassium and zinc.
Name of Crop/Enterprises:	Nutrient intake ,Anthropometric measurements,Hb%
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of value added tomato pickle for income generation of farm women
Year/Season:	Rabi 2023-24
Problem diagnosis:	Due to Low shelf life and inadequate storage facility of fresh tomato, producer gets less profit.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment:	
T1 – Farmers Practice-	No value addition of tomatoes
T2 –Recommended Practice-	tomato pickle
Source of technology:	CFTRI, Hyderabad 2011
Characteristics of technology:	Value added tomato pickle has commercial importance because of its aroma and pungency.
Name of Crop/Enterprises:	Self life , B.C.ratio
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer s/ demonstration	Parameters identified for performance evaluation
1	Mustard	Crop Production	Mustard cv. RH 0725 (Matures in 136-143 days, tall, Bold seeded, and good germination and oil content is 39-40%).	Seed	Rabi 2023-24	2.00 ha	05	No. of siliqua/plant, yield q/ha, NR (Rs/ha), B:C Ratio
2	Linseed	Crop Production	Linseed cv. JLS 66 (It matures in 107-114 days, short in height with white flowers and seed are light brown in colour. Moderately resistant to powdery mildew, alternaria blight, rust and major insect pests. Oil content 40.5% and yield potential is 22 q ha-1)	Seed	Rabi 2023-24	2.00 ha	05	No.of capsules /plant, yield q/ha, NR (Rs/ha), B:C Ratio
3	Wheat	Crop Production	Wheat cv. JW 3336 (It matures in 118 days, bold grain, good appearance and high protein content. It has resistant to rust and suitable for irrigated condition of Madhya Pradesh. Yield potential is 53 q/ha).	Seed	Rabi 2023-24	2.00 ha	05	No.of tillers /plant, yield q/ha, NR (Rs/ha), B:C Ratio
1	Okra	Integrated crop management	Kashi Kranti with INM (Application of 100% RDF @ 120:100:80 kg NPK/ha+ Biofertilizer-Azotobactor-5 kg/ha, PSB-5kg/ha, KSB-2.5 kg/ha + vermicompost @ 2.5 t/ha)	Seed	Kharif 2023	1	5	Fruit weight (g), Fruit yield (q/ha) and NR (Rs/ha), B:C Ratio
2	Tomato	Integrated Crop Management	Demonstration: Tomato variety Kashi Aman, 75% RDF (NPK @ 90:45:40 kg/ha + 25% FYM (30 t/ha) + Azospirillum @ 5 kg/ha, raised bed planting, mulching and stacking	Seed	kharif 2023	1	10	Fruit weight (g), Fruit yield (q/ha) and NR (Rs/ha), B:C Ratio
3	Marigold	Varietal evaluation	Marigold variety Pusa Bahar	Seed	Rabi 2023-24	0.5	10	Yield (q/ha) and NR (Rs/ha), B:C Ratio
4	Coriande	Integrated	Vermicompost-2.5 t/ha + use of 100%	herbicide	Rabi	1	10	Yield (q/ha) and NR (Rs/ha),

	r	Crop Management	RDF (NPK @ 60:60:30 kg/ha based on STV), application of pre-emergence herbicide fluchlorolin 45 EC @ 1.5 kg a.i./ha (before sowing)		2023-24			B:C Ratio
5.	Pigeon pea	Integrated Nutrient Management	Transplanting of 30 days old nursery at 90 cm plant to plant spacing & 150 cm row to row spacing, nipping at 30 DAT + Application of vermicompost @ 5t/ha + NPKS @ 20:50:20:20 kg/ha based on STV	Polythene bags, seed	Kharif 2023	2	5	Pods/ plant (no.), seeds/pod (no.), Nodules/plant (no.), Protein content (%), Protein yield (kg/ha), Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
6.	Wheat	Integrated Nutrient Management	Use of FYM (5 t/ha) + Biofertilizers (Azotobactor & PSB @ 5 kg/ha) + 75% NPK of 40:20:10 kg/ha + Zn @ 5 kg/ha	Seed, Biofertilizers	Rabi 2023-24	2	5	Tillers/plant (no.), Protein content (%), Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
7.	Chickpea	Integrated Nutrient Management	Use of Ammonium molybdate @ 1g/kg for seed coating, Rhizobium & PSB @ 10 g/kg as seed inoculation and soil application of PSB @ 5 kg/ha + application of 75% NPK of 20:60:20 kg/ha , sowing by raised bed planter	Seed, Ammonium Molybdate, Biofertilizers	Rabi 2023-24	2	5	Nodules/plant, No. of pods/plant, No. of seeds/pod, Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
8.	Wheat	Integrated Nutrient Management	Application of FYM (6 t/ha) + biofertilizers (Azotobactor & PSB @ 5 kg/ha) + 75% NPK of 100:60:40 kg/ha + Zn @ 5 kg/ha in bi-fortified durum wheat variety HI 8759; Use of sulphasulfuron 75% WP (25 g a.i./ha) + metsulfuron methyl 5% WP (6 g a.i./ha) at 25-30 DAS	Seed, Biofertilizers	Rabi 2023-24	2	5	Plant height (cm), No. of tillers/ plant, protein content (%), Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
9.	Rice	Integrated Crop Management	Use of improved scented rice variety Pusa 1612 and application of Pretilachlor (6%)+Pyrazosulfuron ethyl (0.15%) GR @ 615 g/ha at 3 DAT	Seed, Weedicide	Kharif 2023	2	5	Plant height (cm), No. of tillers /hill, Weed density (No./m ²), No. of panicles / plant, No. of seeds/panicle, Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
10	Rice	Integrated Weed Management	Application of post-emergence herbicide Imazethapyr (35%) + imazamox (35%) @ 75 g a.i./ha at 3-4 leaf stage in blackgram	Weedicide	Kharif 2023	2	5	Weed population and biomass/m ² , WCE (%), No. of pods/plant, Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
11.	Pigeonpea, Blackgram	Crop diversification	Pigeonpea (Rajeshwari) + Blackgram (Pratap Urad 1/MU 2) (2:6)	Seed	Kharif 2023	2	5	Pigeonpea equivalent yield of intercrop (q/ha), Increase in yield (q/ha), Net Return (Rs/ha), B:C Ratio

12.	Mustard	Integrated Crop Management	Application of two irrigation (one each at pre-flowering 35-40 days and pod filling 65-75 days) and nipping at pre bud stage (30 DAS)	Seed	Rabi 2023-24	2	5	Branches/plant (no.), Siliqua/plant (no.), Seeds per siliqua (no.), Seed Yield (q/ha), Net Return (Rs/ha), B:C Ratio
13.	Mustard Crop	Information Communication Technology	Visual based technical information dissemination through social media (Whats app).	-	Rabi 2023-24	-	50	Socio economic Profile of Whatsapp users, Knowledge level of Whatsapp user, Adoption level of whatsapp user, Attitude of farmers towards whatsapp uses
14	Green Gram Crop	Information Communication Technology	Visual based technical information dissemination through social media (Whatsapp) of in Green Gram Crop.	-	Year Kharif 2023	-	50	Socio economic Profile of Whats app users Knowledge level of Whats app user Adoption level of whatsapp user Attitude of farmers towards whatsapp uses Decision making of crop grower whatsapp users
15	Wheat	Information Communication Technology (CBD)	To study the profile of Kisan Call Centre Executives To capacity building Kisan Call Centre Executives (FTA) To study the constraints faced by the Kisan Call Centre Executives (FTA)		Rabi 2023-24		48	1. Content of the Message 2. Time of the Message sent 3. Visibility of the content 4. No. of total message sent 5. Need of the message
16		ICT	Study the Performance of NAM Farmers app users in Jabalpur		2023		50	Profile of NAM users Knowledge level of NAM user farmers Adoption Level of NAM user farmers Constraints Faced by NAM user farmers

17		ICT	Dissemination of messages through ICT Tools for farmers regarding Insect pest in summer Blackgram		Summer & 2023		50	Content Messages, Crop yield, knowledge & Adoption level, No. of Audio/Visual based messages, Decision making ability, Constraints, feed back

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	Feb, March, Sep, Oct, Dec 2023	350
2	Farmers Training	40	Jan-Dec, 2023	800
3	Media coverage	25	Jan-Dec, 2023	mass
4	Training for extension functionaries	03	Jan-Dec, 2023	60

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)/qtl	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration of Nutritional Kitchen garden at backyard	Seasonal Vegetables	Around the year	20	0.025	Vegetables seed Kit	Production kg/ unit, Availability/capita, Nutrient Intake / capita, Anthro. measurements	
Performance of bi-fortified protein rich wheat variety HI 8663 from products	wheat variety HI 8663	Rabi 2023	10		Wheat variety HI 8663	Per capita consumption gm/day, Nutrient Intake/day, Anthro. measurements	
Performance of Oyster mushroom (<i>Pleurotus ostreatus</i>) in household level	Oyster Mushroom	Kharif 2023	10	10 bags	Spawn	Yield kg/bag, Net profit, B:C ratio	

Demonstration on processing of Turmeric powder at domestic level	Turmeric	Kharif 2023	10	1qtl.	Turmeric Rizhome var. Surome	Yield (powder yield) kg/qt, Quality analysis (color & appearance) B:C ratio	
4. wheat variety WB-02	wheat variety WB-02	10	10	wheat variety WB-02	Anthropometric measurements , BMI	wheat variety WB-02	Lok 1
5. Pro super grain bags	Pro super grain bags	10	10	Pro super grain bags	Storage losses %, Shelf life (days), B:C ratio	Pro super grain bags	T1-Use of Normal gunny bags for storage of grains
6. Value added products of Anola	Anola candy , Murabba, Supari	10	10	Value added products of Anola (Murabba, Candy and Supari)	Shelf life (days), B:C ratio, Net income	Anola Candy and Anola Supari (ginger, asafoetida, beet root based) and Murabba uses a nutritional supplement of Vitamin. C, fibre, minerals . Rich in antioxidant and flavanols which supports for improve immunity and memory.	No value addition of Anola

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demonstration	Parameters identified
1	Black gram	Crop Production	Cluster demonstration on Black gram (full package)	Seed	Kharif 2023	10	25	No. of branches/plant No. of pods/plant No. of seeds/pod
2	Pigeon pea	Crop Production	Cluster demonstration on Pigeon pea (full package)	Seed	Kharif 2023	10	25	No. of branches/plant No. of pods/plant
3.	Chickpea	Crop Production	Cluster demonstration on Chickpea	Seed	Rabi 2023-24	20	50	No. of seeds per pod, No. of pods/plant

			(full package)					Seed yield per plant
4.	Field Pea	Crop Production	Cluster demonstration on Field pea (full package)	Seed	Rabi 2023-24	20	50	No. of pods/plant No. of seeds/pod Pod length (cm)
5.	Black Gram	Crop Production	Cluster demonstration on Black gram (full package)	Seed	Summer 2024	10	25	No. of branches/plant No. of pods/plant No. of seeds/pod
6.	Green Gram	Crop Production	Cluster demonstration on Green Gram (full package)	Seed	Summer 2024	20	50	No. of branches/plant No. of pods/plant No. of seeds/pod
7.	Niger	Crop Production	Cluster demonstration on Niger (full package)	Seed	Kharif 2023	20	50	Seed Yield/plant
8.	Mustard	Crop Production	Cluster demonstration on Mustard (full package)	Seed	Rabi 2023-24	20	50	No. of seeds/siliqueae No. of siliqueae/plant No. of seeds/siliqueae
9.	Linseed	Crop Production	Cluster demonstration on Linseed (full package)	Seed	Rabi 2023-24	20	50	No. of capsules/plant No. of seeds/capsule

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	Jan-Dec 2023	300
2	Farmers Training	32	Jan-Dec 2023	640
3	Media coverage	20	Jan-Dec 2023	Mass
4	Training for extension functionaries	18	Jan-Dec 2023	360

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female		Total	Male	Female	
Soil and Water Conservation									
Integrated Nutrient Management	05	05	-	-	-	-	-	100	
Production and use of organic inputs									
Management of Problematic soils	01	01	-	-	-	-	-	20	
Micro nutrient deficiency in crops									
Nutrient Use Efficiency	01	01	-	-	-	-	-	20	
Soil and Water Testing									
Total	07	07	-	-	-	-	-	140	
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	02	02	-	-	-	-	-	40	
Design and development of low/minimum cost diet	02	02	-	-	-	-	-	40	
Designing and development for high nutrient efficiency diet	02	02	-	-	-	-	-	40	
Minimization of nutrient loss in processing	01	01	-	-	-	-	-	20	
Gender	01	01	-	-	-	-	-	20	

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[illegible]

[illegible]

B) OFF Campus

[illegible]

Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
Production and Management technology	03	03	-	-	-	-	-	-	60
b) Fruits									
Cultivation of Fruit	01	01	-	-	-	-	-	-	20
Management of young plants/orchards									
Export potential of ornamental plants									
	01	01	-	-	-	-	-	-	20
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops									
f) Spices	01	01	-	-	-	-	-	-	20
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	05	05	-	-	-	-	-	-	100
Soil and Water Conservation									
Integrated Nutrient Management	06	06	-	-	-	-	-	-	120
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops	01	01	-	-	-	-	-	-	20
Nutrient Use Efficiency									
Soil and Water Testing	01	01	-	-	-	-	-	-	20

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Dura tion in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	F & FW	Weed management in kharif crops	1	-	-	-	-	-	-	20
August	F & FW	SRI technology of paddy	1	-	-	-	-	-	-	20
Nov	F & FW	Pigeon pea production technology	1	-	-	-	-	-	-	20
June	F & FW	Hybrid Maize production Technology	1	-	-	-	-	-	-	20
July	F & FW	Hybrid Rice production Technology	1	-	-	-	-	-	-	20
Crop Improvement										
July and Nov	F & FW	Seed Treatment in rabi and kharif crops	1	-	-	-	-	-	-	20
Jan	F & FW	Awareness Programme For Women Empowerment In Agriculture	1	-	-	-	-	-	-	20
March	F & FW	Deterioration Of Crop Varieties – Causes And Maintenance During Seed Production programme	1	-	-	-	-	-	-	20
April	F & FW	Seed Demand Forecasting And Planning	1	-	-	-	-	-	-	20
August	F & FW	Seed Production In Sorghum crop	1	-	-	-	-	-	-	20
September	F & FW	Intellectual Property Rights (IPRs)	1	-	-	-	-	-	-	20
December	F & FW	Varietal Identification in rabi cereals	1	-	-	-	-	-	-	20
May	F & FW	Importance of Seed Certification in quality seed production	1	-	-	-	-	-	-	20
Horticulture										
June	F & FW	Production technology of cowpea	1	-	-	-	-	-	-	20
June	F & FW	Production technology of	1	-	-	-	-	-	-	20

		okra								
February	F & FW	Importance of drip irrigation in horticultural crops	1	-	-	-	-	-	-	20
March	F & FW	Intercropping in horticultural crops	1	-	-	-	-	-	-	20
April	F & FW	Training and pruning in fruit crops	1	-	-	-	-	-	-	20
October	F & FW	Production technology of garlic	1	-	-	-	-	-	-	20
Livestock production										
Home Science	F&FW	Nutritional and health benefits of nutritional kitchen gardening	01	-	-	-	-	-	-	20
	F&FW	Preparation and benefits of Malted food as supplementary growing children.	01	-	-	-	-	-	-	20
	F&FW	Protein, minerals, fiber rich food by incorporation of millets	01	-	-	-	-	-	-	20
	F&FW	Preparation of Iron rich food for adolescent girls and pregnant women.	01	-	-	-	-	-	-	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
January	F&FW	Income generation of FPO members through Processing and packaging	01	-	-	-	-	-	-	20
February	F&FW	How to change the attitude of farmers regarding FPO	01	-	-	-	-	-	-	20
March	F&FW	Entrepreneurship development of leasant farmers	01	-	-	-	-	-	-	20
April	F&FW	Create awareness about social media regarding crop production practices	01	-	-	-	-	-	-	20
May	F&FW	Awareness of farmers about	01	-	-	-	-	-	-	20

		various agriculture based mobile apps								
June	F&FW	To create awareness of farmers ,through Income generation of SHG Groups	01	-	-	-	-	-	-	20
July	F&FW	How to change the attitude of farmers regarding Soil testing	01	-	-	-	-	-	-	20
August	F&FW	Create awareness of farmers about Minor Millets	01	-	-	-	-	-	-	20
Setember	F&FW	Create awareness of farmers about	01	-	-	-	-	-	-	20
October	F&FW	Create awareness about social media regarding crop production practices	01	-	-	-	-	-	-	20
November	F&FW	Awareness of farmers about various agriculture based mobile apps	01	-	-	-	-	-	-	20
January	F&FW	Low cost input technology of Summers crops	01	-	-	-	-	-	-	20
October	F&FW	Create awareness about Soil Sampling	01	-	-	-	-	-	-	20
Soil Science										
December	F&FW	Nutrient deficiency symptoms in rabi crops and its integrated management	01	-	-	-	-	-	-	20
March and August	F&FW	INM in summer moong and production technology	01	-	-	-	-	-	-	20
January	F&FW	INM in mustard and lentil and	01	-	-	-	-	-	-	20

		production technology								
December	F&FW	INM in fieldpea and production technology	01	-	-	-	-	-	-	20
March and July	F&FW	INM in major kharif pulses and blackgram production technique	01	-	-	-	-	-	-	20
September	F&FW	Techniques for increasing NUE	01	-	-	-	-	-	-	20

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total	
				Others			Number of SC/ST				
				Male	Female	Total	Male	Female	Total		
Crop Production											
November	F&FW	Quality Seed Production In Cereals- Wheat And Perl Millets	01	-	-	-	-	-	-	20	
June and October	F&FW	Quality Seed Production In Pulses – Blackgram, Green Gram And Chickpea	01	-	-	-	-	-	-	20	
July and October	F&FW	Quality Seed Production In Oilseed – Mustard And Groundnut	01	-	-	-	-	-	-	20	
Horticulture											
June	F & FW	Production technology of chilli	01	-	-	-	-	-	-	01	
July	F & FW	Production technology of Tomato	01	-	-	-	-	-	-	01	
January	F & FW	Production technology of cucurbits	01	-	-	-	-	-	-	01	
March	F & FW	Establishment of high density planting orchard	01	-	-	-	-	-	-	01	
October	F & FW	Production technology of marigold	01	-	-	-	-	-	-	01	
October	F & FW	Production technology of coriander	01	-	-	-	-	-	-	01	
Livestock production											
Home Science											
January	F&FW	Nutritional and health benefits of	01	-	-	-	-	-	-	20	

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		nutritional kitchen gardening								
February	F&FW	Preparation and benefits of Malted food as supplementary growing children.	01	-	-	-	-	-	-	20
March	F&FW	Protein, minerals, fiber rich food by incorporation of millets	01	-	-	-	-	-	-	20
April	F&FW	Preparation of Iron rich food for adolescent girls and pregnant women.	01	-	-	-	-	-	-	20
May	F&FW	Monthly Budgeting and management of SHGs Amounts for using in income generating activities. 20	01	-	-	-	-	-	-	20
June	F&FW	Storage technique of different food materials at domestic level.	01	-	-	-	-	-	-	20
July	F&FW	Value addition of Kutki millets by primary processing	01	-	-	-	-	-	-	20
August	F&FW	Value addition of tomatoes by Powder	01	-	-	-	-	-	-	20
September	F&FW	Value addition and processing of turmeric as powder	01	-	-	-	-	-	-	20
October	F&FW	Preparation and value addition of green pea for income generation	01	-	-	-	-	-	-	20
November	F&FW	Maintaining of Hygiene and cleanness of kitchen area	01	-	-	-	-	-	-	20
January	F&FW	Input Management of Nutritional Terrace gardening in Small backyard	01	-	-	-	-	-	-	20
February	F&FW	Importance of	1	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		millets, Its uses in daily diet by different methods.								
March	F&FW	Nutritional benefits and processing of millets.	1	-	-	-	-	-	-	20
April	F&FW	Importance of blood forming nutrients and nutritious diet in lactation periods	1	-	-	-	-	-	-	20
May	F&FW	Making and processing of value added products from tomato	1	-	-	-	-	-	-	20
June	F&FW	Income generation through cow dung products.	1	-	-	-	-	-	-	20
July	F&FW	Different methods of Storage of pulses and grains.	1	-	-	-	-	-	-	20
August	F&FW	Design and development of low/minimum cost diet	1	-	-	-	-	-	-	20
Setember	F&FW	Income generation activity for empowerment of rural women	1	-	-	-	-	-	-	20
October	F&FW	Need of millets utilization for empowering and improving the nutritional security the farm women.	1	-	-	-	-	-	-	20
November	F&FW	Ensuring food and nutrutuinal security among communities through women collective..	1	-	-	-	-	-	-	20
January	F&FW	Nutritional security through bio fortifies crops	1	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
January	F&FW	Leadership development of Pea based FPO members	1	-	-	-	-	-	-	20
Febuary	F&FW	Leadership development of	1	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		leasant farmers								
March	F&FW	To create awareness about smooth functioning of custom hiring centres	1	-	-	-	-	-	-	20
April	F&FW	To create awareness of FPO members about how to use of soil health card	1	-	-	-	-	-	-	20
May	F&FW	Create awareness about Formation and Management of SHGs	1	-	-	-	-	-	-	20
June	F&FW	Create awareness about Production and processing of Oilseed crop for income and employment generation	1	-	-	-	-	-	-	20
July	F&FW	Entrepreneurship development of water chestnut groweres	1	-	-	-	-	-	-	20
August	F&FW	Income generation activities of Leasent farmers through through crop Production	1	-	-	-	-	-	-	20
September	F&FW	Information delivery through whatsapp messages regarding Fall army worm in Maize crop	1	-	-	-	-	-	-	20
October	F&FW	Information delivery through whatsapp messages regarding False smut in Paddy crops	1	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
November	F&FW	Leadership development of SHG Groups formation.	1	-	-	-	-	-	-	20
January	F&FW	Leadership development of Whatshapp group of Farmers	1	-	-	-	-	-	-	20
Febuary	F&FW	To create awareness about Whatshapp Group of Farmers	1	-	-	-	-	-	-	20
March	F&FW	Importance of Poly House in agriculture	1	-	-	-	-	-	-	20
April	F&FW	Create awareness about Formation and Management of SHGs	1	-	-	-	-	-	-	20
May	F&FW	Create awareness of farmers about Social Media	1	-	-	-	-	-	-	20
June	F&FW	Entrepreneurship development of Farmers	1	-	-	-	-	-	-	20
July	F&FW	Income generation activities of SHG Farmers	1	-	-	-	-	-	-	20
August	F&FW	Information delivery through whatsapp messages regarding pod borer insect in Gram	1	-	-	-	-	-	-	20
Setember	F&FW	Information delivery through whatsapp messages regarding Black Gram crops	1	-	-	-	-	-	-	20
October	F&FW	To create awareness about smooth functioning of	1	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		custom hiring centres								
November	F&FW	Create awareness about Formation and Management of SHGs	1	-	-	-	-	-	-	20
January	F&FW	Introduction about Online plate form	1	-	-	-	-	-	-	20
February	F&FW	How to use Online platform for training	1	-	-	-	-	-	-	20
March	F&FW	Create awareness about water saving in Kharif & Rabi crops	1	-	-	-	-	-	-	20
April	F&FW	Create awareness about how to use agri. equipments in Summer, Kharif & Rabi	1	-	-	-	-	-	-	20
May	F&FW	Dissemination of Agricultural technology regarding Insect pest of Blackgram	1	-	-	-	-	-	-	20
June	F&FW	Dissemination of Agricultural technology regarding Insect pest of Mungbean	1	-	-	-	-	-	-	20
July	F&FW	Soil fertility management with respect to kharif pulses and cereals and pigeonpea production technology	1	-	-	-	-	-	-	20
August	F&FW	Agri-waste management	1	-	-	-	-	-	-	20
September	F&FW	Production and use of NADEP and vermicompost	1	-	-	-	-	-	-	20
October	F&FW	Use of biofertilizers in rabi crops and role in soil health management	1	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
November	F&FW	Use of biofertilizers in rabi pulses and oilseeds	1	-	-	-	-	-	-	20
May and June	F&FW	Soil fertility and INM with respect to kharif cereals & pulses	1	-	-	-	-	-	-	20
July	F&FW	INM in major kharif crops	1	-	-	-	-	-	-	20
October	F&FW	INM in linseed and production technology	1	-	-	-	-	-	-	20
January	F&FW	INM in mustard, linseed and IPM	1	-	-	-	-	-	-	20
Febuary	F&FW	Micronutrient deficiency symptoms in rabi crops and its management	1	-	-	-	-	-	-	20

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duratio n in days	Number of participants						Gran d Total
				Others			Number of SC/ST			
				Male	Femal e	Tota l	Mal e	Femal e	Tota l	
Crop Production										
June	F&FW	Production Technology of direct seeding rice cultivation	01	-	-	-	-	-	-	20
October	F&FW	Production Technology of Rabi pulses	01	-	-	-	-	-	-	20
Crop Improvement										
August	Extension Functionaries	Seed Act and Rules	01	-	-	-	-	-	-	20
Horticulture										
July	Extension Functionaries	Production technology of vegetable crops	01							20
Livestock production										
Home Science	AWW	Nutritional support during anemia in pregnancy	02							20
July										
August	AWW	Role of diet to overcome the nutrient deficiencies in adolescent girls	01							20
September	AWW	Utilization of Millets in daily diet to improve health for women and children	01							20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
January	Extension Functionaries	Capacity Building of CEOs & Directors of FPOs for entrepreneurship development	01	-	-	-	-	-	-	20
February	Extension Functionaries	To create awareness about Social media and Mobile apps	01	-	-	-	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duratio n in days	Number of participants						Gran d Total
				Others			Number of SC/ST			
				Male	Femal e	Tota l	Mal e	Femal e	Tota l	
		regarding agricultural production and management								
March	Extension Functionarie s	Use of ICT tools for extension officers	01	-	-	-	-	-	-	20
April	Extension Functionarie s	Importance of ICT TOOLS, and Social media regarding agricultural production and management								
May	Extension Functionarie s	How to use agriculture websites for upgrading knowledge	01	-	-	-	-	-	-	20
June	Extension Functionarie s	How to use agricultural Apps.	01	-	-	-	-	-	-	20
July	Extension Functionarie s	Extn. Methods for Adoption of Drip, Mulch & Fertigation	01	-	-	-	-	-	-	20
August	Extension Functionarie s	Importance of Farm mechanization & Selection of Machines	01	-	-	-	-	-	-	20
September	Extension Functionarie s	Crop planning for Kharif crops	01	-	-	-	-	-	-	20
Soil Science										
July and January	Extension Functionarie s	In-service Training on Production Technology of Zaid & Kharif crop	01	-	-	-	-	-	-	20
August	Extension Functionarie s	Production of kharif pulses, IPM and IDM	01	-	-	-	-	-	-	20
November	Extension Functionarie s	Resource management for better crop production and soil health	01	-	-	-	-	-	-	20
November	Extension Functionarie s	INM in rabi crops	01	-	-	-	-	-	-	20

iii) Sponsored Training Programmes

S. N o.	Title	Themati c area	Durati on n	Client PF/ RY/ EF	No. of cou rses	No. of participants							Sp o nso r ing age n cy
						Male		Female		Total			
						Oth er	SC/S T	Oth er	SC/S T	Oth er	SC/S T	Tot al	
1	Millets: nutritional benefits,proces sing and value addition	Nutritio nal security	01	F&FW	01	-	-	-	-	-	-	-	20
2	Income generation through SHGs.	Income generati on	01	F&FW	01	-	-	-	-	-	-	-	20
3.	Pea Processing and value addition	Value addition	01	F&FW	01	-	-	-	-	-	-	-	20
4.	Secondary processing of kutki millets	Value addition	01	F&FW	01	-	-	-	-	-	-	-	20

EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
Jabalpur	Agri mobile clinic	4		-	-	-	-		-	-		-	-	
Jabalpur	Animal Health Camp	-												
Jabalpur	Awareness programme	15		-	-	-	-		-	-		-	-	
Jabalpur	Celebration of important days	8		-	-	-	-		-	-		-	-	
Jabalpur	Diagnostic visits	10		-	-	-	-		-	-		-	-	
Jabalpur	Exhibition	6		-	-	-	-		-	-		-	-	
Jabalpur	Exposure visits	6		-	-	-	-		-	-		-	-	
Jabalpur	Ex-trainees Sammelan	2		-	-	-	-		-	-		-	-	
Jabalpur	Farm advisory Services	30		-	-	-	-		-	-		-	-	
Jabalpur	Farmers visit to KVK	80		-	-	-	-		-	-		-	-	
Jabalpur	Field Day	6		-	-	-	-		-	-		-	-	
Jabalpur	Group meetings	4		-	-	-	-		-	-		-	-	
Jabalpur	Kisan Ghosthi/Sammelan	8		-	-	-	-		-	-		-	-	
Jabalpur	Kisan Mela	1		-	-	-	-		-	-		-	-	
Jabalpur	Krishi Mahotsav	-		-	-	-	-		-	-	-	-	-	-
Jabalpur	Lectures delivered as resource persons	30		-	-	-	-		-	-	-	-	-	-
Jabalpur	Mahila Mandals conveners meetings	1		-	-	-	-		-	-	-	-	-	-
Jabalpur	Method Demonstrations	4		-	-	-	-		-	-	-	-	-	-
Jabalpur	Pradhanmantri phasal beema yojana	2		-	-	-	-	-	-	-	-	-	-	-
Jabalpur	Scientific visit to farmers field	30		-	-	-	-		-	-	-	-	-	-
Jabalpur	Self Help Group conveners meetings	2		-	-	-	-		-	-	-	-	-	-
Jabalpur	Soil health Camp	2		-	-	-	-		-	-	-	-	-	-
Jabalpur	Soil test campaigns	2		-	-	-	-		-	-	-	-	-	-
Jabalpur	Technology Week	1		-	-	-	-		-	-	-	-	-	-
Jabalpur	Radio talks	8		-	-	-	-		-	-	-	-	-	-
Jabalpur	Extension literature	15		-	-	-	-		-	-	-	-	-	-
Jabalpur	TV talks	5		-	-	-	-		-	-	-	-	-	-
Jabalpur	Newspaper coverage	45		-	-	-	-		-	-	-	-	-	-
Jabalpur	Film Show	10		-	-	-	-		-	-	-	-	-	-
Jabalpur	Other (social media)	300		-	-	-	-		-	-	-	-	-	-

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-		
OILSEEDS	-		
PULSES	-		
VEGETABLES	-		
FLOWER CROPS	-		
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	Allahabad Safeda	-
	Mango	Amrapali and Dashari	-
	Moringa	PKM-1	-
	Lemon	Seedless	-
VEGETABLES	Cabbage	BC-79	-
	Chilli	Armour	-
	Tomato	Heemshikhar	-
	Brinjal	Indigo	-
	Cauliflower	Girija	-
ORNAMENTAL CROPS	Marigold	Pusa Narangi	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			4000
2	NADEP			
3	Azolla			100
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January	January to March 2023	250
April	April to June 2023	250
July	July to September 2023	250
October	October to December 2023	250

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2	-		
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA
3	In-service personnel	PRA
4	methodology for identifying OFTs/FLDs	PRA
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK Km)
1	Kurgaon	Kundam	50
2	Rengajhora	Jabalpur	54
3	Kohaka	Kundam	51
4	Tikariya	Kundam	47
5	Banderkola	Jabalpur	32

6	Rampuri Kala	Kundam	49
	Dooda	Kundam	48
7	Jamkhar	Shahpura	55
8	Dabra kala	Kundam	45
9	Sohawal	Kundam	45
10	Chhatarpur	Panagar	18
11	Sihoda	Shahpura	35
12	Mohtara	Sihora	45
13	Tiwarikheda	Panagar	18
14	Kohla	Shahpura	55
15	Berkheda	Kundam	49
16	Hinotiakala	Shahpura	46
17	Budhua	Sihora	40
18	Khaga, Mau	Sihora	42
19	Dabu	Sihora	45

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	22	
Water Samples	-	-	-	-
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Backward Linkage
Agricultural Deptt.	Backward Linkage
NDVSU	Backward Linkage
Fisheries Deptt.	Backward Linkage
NRLM	Backward Linkage
WCD	Backward Linkage
CIAE, BHOPAL	Forward Linkage
IIMR, Hyderabad	Forward Linkage
Agril.Extension	Forward Linkage
DWR, ICAR,Jabalpur	Forward Linkage
Manage Hyderabad	Forward Linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK JABALPUR

Flagship Programme	Month	Activity details	Targeted Beneficiaries/Area/Coverage
Natural Farming	Jan-Dec	Awareness programme on Natural farming	600/Whole District/Whole District
	Jan-Dec	Exposure visits at KVK NF-Demonstration unit	90/2 ha/
	July-October	Production technology of rice and kodo under Natural farming	50/ /
	Nov-April	Production technology of vegetable pea, wheat and linseed under Natural farming	75/ /
	Feb-April	Production technique of summer greengram under Natural farming	25/
CFLD Pulses Rabi 2023-24	Nov-April	CFLD Pulses Rabi 2023-24	100/40ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
CFLD Pulses summer 2023-24	February-April	CFLD Pulses summer 2023-24	75/30 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
CFLD Pulses Kharif 2023	June-September	CFLD Pulses Kharif 2023	50/20 ha / Kundam, Shahpura, Patan, Sihora, Jabalpur
CFLD Oilseed Rabi 2023-24	Nov-March	CFLD Oilseed Rabi 2023-24	50/20ha/ Kundam, Sihora, Jabalpur
CFLD Oilseed Kharif 2023	June-October	CFLD Oilseed Kharif 2023	100/40 ha/ Kundam, Jabalpur
Swachh Bharat Abhiyan	Oct-Dec	Swachh Bharat Abhiyan	300/ whole district

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan-Dec	Natural farming	2500/ 4 ha/ whole district
Oct	CFLD Pulses Rabi 2023-24	100/ 50 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
February	CFLD Pulses summer 2023-24	75/ 30 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
June	CFLD Pulses Kharif 2023	100/ 50 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
Oct	CFLD Oilseed Rabi 2023-24	100/ 40 ha/ Kundam, Sihora, Jabalpur
June	CFLD Oilseed Kharif 2023	50/ 20 ha/ Kundam, Jabalpur
Jan-Dec	Jalshakti Abhiyan	250/ whole district
Oct & Dec	Swachh Bharat Abhiyan	300/ whole district
Jan-Dec	Nutri Smart Village	200/ block wise villages under the programme

Planning for Crop Cafeteria

Total Area of Crop cafeteria: **500** Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	<i>Kharif</i> 2023	JR 81	55.0-60.0 Suitable for irrigated conditions, long slender grains, maturity: 120-125 days.	50 Sq m
Rice		JR 206	Suitable for rainfed and irrigated ecologies, average yield 55.0-60.0 q/ha, long bold grains, maturity 120-122 days, resistant to bunt and blast.	50 Sq m
Rice		JR 21	Duration 110-120days, Yield 30-35 q/ha , suitable for irrigated conditions . Is a secented rice variety.	50 Sq m
Rice		JR 10	Duration 115-120 days,yield 50-55 q/hac. Suitable for all rice growing areas.	50 Sq m
Rice		Improved Chinoor	30.0-32.0 Suitable for irrigated conditions, medium slender aromatic rice, maturity: 150-155 days.	50 Sq m
Rice		Jeera Shanker	Premium Aromatic Rice (Jeera shankar) Rice is a varieties of rice. This are a Non- Basmati aromatic short to medium grain rice. These are traditional Indian cultivar with intermediate amylose and gelatinization temperature. These are most common in Madhya Pradesh and Chhattisgarh.	50 Sq m
Rice		Improved Jeera Shanker	Duration 14-1420days, yield 30-32 q/hactare, Suitable for irrigated timely sown. Is a secented rice variety.	50 Sq m
Rice		JRB-1	Matures in 120-125 days, high yielding (56q ha-1), Bold seeded with multiple resistance to diseases and insect-pests. Tolerant to lodging coupled with high nitrogen use efficiency (150kg ha-1 RDN) despite this, low yield reduction in poor nitrogen supply. Suitable for poha making.	50 Sq m
Rice		JRH-19	Short duration matures in 95-100 days, high yielding (65-70 q ha-1), consumes less water and tolerant to diseases	50 Sq m
Rice		MTU 1010	(also known as Cotton Dora Sannalu) is one of the very popular mega-rice varieties of India, which is extensively cultivated in many rice- growing states during both wet and dry seasons (http://www.rkmp.co.in/content/mtu-1010) due to its high yield, short duration, and desirable long slender grain type	50 Sq m
Rice		IR 64	IR64 is considered a typical high-tillering indica type cultivar, in contrast to the “new plant type” NPT varieties that have lower tillering but large tiller and panicle size . IR64 has relatively durable resistance to BPH, and it is known to carry the major gene Bph1.	50 Sq m
Wheat	Rabi 2023-24	JW 3336	It matures in 118 days, bold grain, good appearance and high protein content. It has resistant to rust and suitable for irrigated condition of Madhya Pradesh. Yield potential is 53 q/ha.	50 Sq m
Wheat		JW 3382	Matures in 119days, high yielding (59.75 q ha -1), bold seeded, multiple resistanc and heat tolerant. Rich in Iron, zinc and protein and suitable for chapatti making.	50 Sq m
Wheat		GW 451	possessed bold grains with 45.8 g weight of 1000-grains. It showed high degree of resistance to both brown and black rusts. It has better chapatti quality. It has 11.8% protein, 80.9 kg/hl test weight, 82.5 grain hardness index and 8.9% dry gluten.	50 Sq m
Wheat		JW 1255	Matures in 119 days, high yielding (41-45q ha -1), lustrous bold seeded with multiple resistance. Rich in Iron, zinc and suitable for pasta making and export.	50 Sq m
Chickpea		JG 24	multi-disease resistant while will have production capacity of 22 to 25 quintal hectare. As the variety produces a long plant, which is good for mechanical harvesting thus have minimum	50 Sq m

			losses of grain.	
Chickpea		JG 36	Semi spreading plant with dark brown seed. Tolerant to wilt. Yield 18-20 q/ha, duration 110-120 days .Suitable for rainfed and irrigated condition both.	50 Sq m
Wheat		HI-8759	Recommended for commercial cultivation under high fertility irrigated timely sown conditions of Central zone of India. HI 8759 has yield potential of >75.5 q/ha with an average yield of 56.9 q/ha; and shows superiority over checks by giving 3.8 % to 12.0 % higher yield over durum wheat. It showed better resistance to loose smut and foot rot than all the checks, and comparable resistance to flag smut and Karnal bunt (8.1%). It can serve as a “dual purpose” variety suitable both for making chapati and for pasta preparations due to its moderate SDS-sedimentation value (~ 35 ml).	50 Sq m
Wheat		DBW 47	Very high yellow pigment content of 7.57ppm as compared to check variety HI8627 (5.63) and thus it is the best genotype for all the pasta quality traits. Since pasta industry has high demand for high yellow pigment wheats, DDW 47 can be an asset for providing remunerative price to the farmers.	50 Sq m
Wheat		HI-1544	Yield: 55-60 q/ha, duration: 115-120. Sows in all states of India. resistance to with high hectoliter weight and sedimentation value, ensuring good chapati making quality. Its medium bold lustrous grain will fetch premium price in the market, thereby making wheat cultivation in Central zone more profitable.	50 Sq m

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost	Vermicompost production	5000	vermicompost
Azolla unit	Azolla production for demonstration purpose	10'X5'X1.5'	
Poly house	Growing of vegetables under polyhouse for demonstration purpose	300m2	
Net House	Seedling and sapling	300m2	
Mushroom	Oyster mushroom production for demonstration purpose	120m2	
Zero energy cool chamber	Zero energy cool chamber an on farm rural oriented storage structure that temperature low in 10oC to 15oc using of without electricity for storage of fruit and vegetable in farm field	165cm X115cm	
Portable tunnel	Used for nursery raising purpose	2mx6mx2.25m	
Poultry unit	Kadaknath and Narmada Nidhi		
Processing unit	Multigrain flour, millets biscuits		
Nutritional kitchen garden	Seasonal vegetables grow for small family model for demonstration purpose	100sqm	
Medicinal unit	14 medicinal plants like Alovera, Tulsi, ashwagandha, sada suhaga, van ajwain, meethi neem, bramhi, sarp gandha, har jod, kalmegh, stevia, maamfal showcasing in crop cafeteria	52 pots	

Terrace garden	Growing of vegetables in growbags and earthen pots for demonstration purpose	35 pots	
Natural farming unit	Demonstration unit, Beejamrit, Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Dhasparni ark	2 ha, 4drums (50 ltr each) 8 drums (Jeevamrit-200 ltr each)	
Cow Dung Diya and Hawan Tikiya making unit	Demonstration Unit consisting of hawan tikiya and diya making machine unit	-	-

ANNUAL ACTION PLAN 2023

KVK KATNI

Year of sanction: 2005

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sanjay Vaishampayan	Pipraudh Agricultural Farm, Raipura Road, Pipraudh, Katni	9827314030	vsanjaykvk@gmail.com

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 45.17

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2	Under Demonstration Units	2.0
3	Under Crops	15.0
4	Orchard/Agro-forestry	5.0
5	Others (specify)	21.0(Seed Production)
Total		45.17

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	23.02.2021	-	-	-	-	-
2	Farmers Hostel	Nil	-	-	-	-	-	-
3	Staff Quarters (6)	Nil	-	-	-	-	-	-
4	Demonstration Units (2)	Nil	-	-	-	-	-	-
5	Fencing	Nil	-	-	-	-	-	-
6	Rain Water harvesting system	Nil	-	-	-	-	-	-
7	Threshing floor	Nil	-	-	-	-	-	-
8	Farm godown	Nil	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	-	-	-	-
Motor Cycle 2	23.03.2007	43571	92792	Working
Bolero(Jeep)	31.03.2021	778447	4377	Good
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Xerox Machine	18.03.2008	58510	Not working
Video Camera	22.03.2007	14315	Not working
Computer Laser Printer	18.04.2008	40050	Poor condition
Inverter 600VA(2)	26.03.2009	7175	Poor condition
Inverter Battery (2)	26.03.2009	19200	Poor condition

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	July 2023
2	December 2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Katni	Kaymore platu & satpura hills	06	409	1064167	52.17	35%	1.79 lakh	1.41ha

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Kaymore platu & satpura hills	Rice- Wheat, Rice- Chickpea, Linseed

SWOT Analysis of each Agro-Ecological Situations of district AES-1 Kaymore platu & satpura hills

Strength	Weakness	Opportunities	Threats
☐ Annual rainfall 1000-1400 mm	☐ scattered rainfall and prolong dry spell	☐ Agri horti crops	☐ Poor fertility and low WHC

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	493.1
Forest	100.0
Waste Land	55.8
Other than cultivated area	12.8
Cultivable waste and alkaline land	39.5
Pastures	38.6
Bushes	0.1
Current Fallow	27.5
Other Fallow	26.1
Agricultural Land	246.3
Area Sown	245.90
Kharif	214.2
Rabi	225.9
Zaid	
Cropping Intensity	128%

Irrigated Area with Different Sources:

S. No.	Description	Area “000 ha”
1	Canal	12.8
2	Well	30.1
3	Tube well	1.2
4	Ponds	0.7
5	Others	15.10

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep soils		187.6 (37.9)
2	Medium deep soils		181.0 (36.6)
3	Shallow soils		125.6 (25.4)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (000ha)	Production (000 tonne)	Productivity (kg/ha)
Kharif 2021				
1	Rice	186.20	701.0	3765
2	Maize	2.8	4.6	1648
3	Sorghum	0.01	0.01	1355
4	Kodo & Kutki	0.6	0.6	1010
5	Black Gram	6.1	4.8	780
6	Green Gram	1.6	1.3	810
7	Pigeonpea	3.7	4.9	1320
8	Sesame	13.2	9.2	695
9	Soybean	0.03	0.04	1285
Rabi 2021-22				
1	Wheat	185.7	788.1	4245
2	Barley	0.1	0.2	2250
3	Chickpea	26.2	51.1	1950
4	Pea	1.5	2.8	1840
5	Lentil	1.5	2.8	1855
6	Mustard	8.9	7.7	870
7	Linseed	0.3	0.3	1100

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	20	22.6	8.6
Feb, 22	2	27.5	9.7
Mar, 22	0.0	36.1	16.4
Apr, 22	0.0	42.3	23.0
May, 22	69.0	41.9	26.1
Jun, 22	95.5	38.8	26.3
July, 2022	285.5	33.4	25.1
Aug., 2022	308.5	32.0	24.5
Sept., 2022	169.0	32.8	23.9

Oct. 2022	49.50	32.2	18.4
Nov. 2022	0.0	29.5	11.6
Dec. 2022	0.0	26.9	9.7

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population (000)	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	416	 MT.	 kg
Buffalo	83.4	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	8.3	 MT wool	 kg
Goats	85.7	 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	6.0	---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Dhimarkheda	Dhimarkheda	Mahgawan	Field crops & Vegetables, Livestock	Use of old variety, low yield, disease & Insect infestation, poor health and production of cattles	- Seed replacement through introduction of improved variety - Integrated nutrient management (INM) - Integrated pest management (IPM) - Cropping system and crop diversification - Rainwater harvesting and irrigation management - Farm mechanization and drudgery reduction - Introduction of improved implements - Integrated livestock management/ IFS - Technical support to FPOs (Existing & to be formed) - Development of rural entrepreneurship for income and employment generation (Primary and secondary processing)
2	Bahoriband	Bahoriband	Dhuri			
3	Rithi	Rithi	Vasudha			
4	Badwara	Badwara	Majhgawan			
5	Vijayraghavgarh	Vijayraghavgarh	Bhainswahi			
	Katni	Katni	Shahpur (Niwar)			

Priority / Thrust areas

S. No.	Particulars
1.	Seed replacement through introduction of improved variety
2.	Integrated nutrient management (INM)
3	Integrated pest management (IPM)
4	Cropping system and crop diversification
5	Rainwater harvesting and irrigation management
6	Farm mechanization and drudgery reduction
7	Introduction of improved implements
8	Integrated livestock management/ IFS
9	Technical support to FPOs (Existing & to be formed)
10	Development of rural entrepreneurship for income and employment generation (Primary and secondary processing)

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
19	137	13	170

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
88	2200	89	4200

Seed Production (Qtl.)	Planting material (Nos.)
	5000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Seed replacement through introduction of improved variety	Rice/ JR 206	Continues use of same variety IR 64, Low Yield	Assessment of Improved variety of rice JR 206		Improved Production Technology	Improved Production Technology	Field day, Group Meeting	Seed
2	Seed replacement through introduction of improved variety & IYoM	Kodo/ JK 137	Continues use of same variety, Low Yield	Assessment of Improved variety of Kodo JK 137		Improved Production Technology	Improved Production Technology	Field day, Group Meeting	Seed
3	Seed replacement through introduction of improved variety	Wheat / JW 3465	Low yield due to sowing of unsuitable variety	Assessment of Improved biofortified wheat variety JW 3465		Improved Production Technology	Improved Production Technology	Field day, Group Meeting	Seed
4	Seed replacement through introduction of improved variety	Chickpea/ JG 24	Low yield due to sowing of unsuitable variety	Assessment of Improved variety of chickpea JG 24		Improved Production Technology	Improved Production Technology	Field day, Group Meeting	Seed
5	Introduction of improved implements	Maize/ Raised Bed Planter	Water logging in maize field	Assessment of raised bed planter in maize crop		Use & Handling of farm implements	Use & Handling of farm implements	Group Meeting	-
6	Introduction of improved implements	Pigeonpea/ Tractor Drawn Bed Planter	Low yield due to inadequate water management	Assessment of tractor drawn bed planter for sowing of pigeonpea		Use & Handling of farm implements	Use & Handling of farm implements	Group Meeting	-
7	Introduction of improved implements	Mustard/ Zero Till Seed Cum Fertilizer Drill	Delay in sowing due to unavailability of optimum field condition for preparation	Assessment of zero till seed cum fertilizer drill for line sowing of mustard		Use & Handling of farm implements	Use & Handling of farm implements	Group Meeting	-
8	Introduction of	Chickpea/	Low yield of	Assessment of		Use &	Use &	Group	-

	improved implements	Raised Bed Planter	chickpea due to poor plant population, heavy wilt incidence in compact soil and poor nitrogen fixation	raised bed planter for sowing of chickpea		Handling of farm implements	Handling of farm implements	Meeting	
9	Integrated livestock management	Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i>	Poor growth in goat kids	Assessment of Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i> on growth performance in weaned kid		Feed management	Feed management	Group Meeting	Fodder seed, Turmeric powder and <i>Saccharomyces cerevisiae</i>
10	Integrated livestock management	Buffalo supplemented with bypass fatty acids and <i>Tinospora cordifolia</i>	Low production	Assessment of performance of buffalo supplemented with bypass fatty acids and <i>Tinospora cordifolia</i>		Feed management	Feed management	Group Meeting	By pass fatty acids and <i>Tinospora cordifolia</i>
11	Integrated livestock management	Supplementation of concentrate containing 18% Crude Protein @ 2 kg per day for 10 week before and after calving	Low milk production	Assessment of prepartum protein supplementation on performance of non descript cow		Feed management	Feed management	Group Meeting	Concentrate mixture containing 18% CP
12	Integrated livestock management & ITK	Gurhul flower (China Rose) juice to control diarrhea in goat	High treatment cost in allopathic	Assessment of Gurhul flower (china rose) (<i>Hibiscus rosa-sinensis</i>) juice to control diarrhea in goat		Feed management	Feed management	Group Meeting	Gurhul flower
13	Integrated livestock management & ITK	Shisham leaves (<i>Dalbergia sissoo</i>) paste on control of diarrhea in	High treatment cost in allopathic	Assessment of Shisham leaves (<i>Dalbergia sissoo</i>) paste on control of diarrhea in buffalo		Feed management	Feed management	Group Meeting	Shisham leaves

		buffalo							
14	IPM & INM	Information dissemination through social media (Whats app)	Delayed and lack of visual based technical information dissemination	Assessment of effectiveness of visual based technical information dissemination through social media (Whats app)		Awareness on social medial	Awareness on social medial	Group Meeting	Information dissemination through social media (Whats app)
15	Technical support to FPOs (Existing & to be formed)	Technical information Farmers Producer Organization (FPOs)	Low income, Lack of skill, Poor decision making of FPO members	Study on performance of Farmers Producer Organization (FPOs) in Katni district		Awareness on social medial	Awareness on social medial	Group Meeting	-
16	Cropping system and crop diversification	Ginger cultivation under shade of Mango Orchard	Lack of knowledge about shade loving crops	Assessment of ginger (Suprabha) cultivation under shade of mango orchard		Integrated farming system	Integrated farming system	Group Meeting	Ginger seed
17	Nutritional security	Biofortified rice variety CR Dhan 310	High magnitude of malnutrition among farm families	Assessment of suitability of Biofortified rice variety CR Dhan 310 to improve the malnutrition status of the farm family		Awareness on nutritional security	Awareness on nutritional security	Group Meeting	Seed
18	Natural Farming	Bio Waste Decomposer for Decomposition	No use of bio decomposer, pollution while burning crop residue and soil health deterioration	Assessment of bio waste decomposer for decomposition of crop residues		Natural Farming	Natural Farming	Group meeting	Bio Waste Decomposer
19	Cropping system and crop diversification & IYoM	Millet (Ragi VL 376 & Barley DWRB 137)	High magnitude of malnutrition among farm families	Assessment of suitability of millet (Ragi and Barley) to improve the malnutrition status of the farm family		Improved Production Technology	Improved Production Technology	Group Meeting	Seed

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Assessment	03	-	01	-	-	-	-	-	-	04
Farm Mechanization	01	01	02	-	-	-	-	-	-	04
IFS	-	-	-	-	01	-	-	-	-	01
Natural Farming	01	-	-	-	-	-	-	-	-	01
Nutritional Security	02	-	-	-	-	-	-	-	-	02
TOTAL	07	01	03	-	12	-	-	-	-	12

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
LPM	02	-	-	01	-	-	-	03
ITK	01	-	-	01	-	-	-	02
TOTAL	03	-	-	02	-	-	-	05

Detailed Information about OFT:

OFT 1

Name of Discipline :-	Plant Breeding
Title of on-farm trial:	Assessment of Improved variety of rice JR 206.
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Continues use of same variety IR 64, Low Yield
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	IR 64 (mixed seed)
T2 –Recommended Practice-	JR 206
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2019
Characteristics of technology:	Suitable for rainfed and irrigated ecologies, average yield 55-60 q/ha, long bold grains, maturity 120-122 days, resistant to blast
Name of Crop/Enterprises:	Rice / JR 206
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: IR 64 (mixed seed)	No. of tillers/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T2: JR 206	No. of tillers/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Breeding
Title of on-farm trial:	Assessment of Improved variety of Kodo JK 137
Year/Season:	Kharif/2023
Farming situation:	Rainfed
Problem diagnosis:	Continues use of same variety, Low Yield
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Unidentified variety
T2 –Recommended Practice-	JK 137
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2015
Characteristics of technology:	Drought Tolerant, Yield 26-29 q/ha, Maturity 100-105 days
Name of Crop/Enterprises:	Kodo / JK 137
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: Unidentified variety	No. of tillers/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T2: JK 137	No. of tillers/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Breeding
Title of on-farm trial:	Assessment of Improved biofortified wheat variety JW 3465
Year/Season:	Rabi 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to sowing of unsuitable variety
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Lok 1 (mixed seed)
T2 –Recommended Practice-	JW 3465
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, Jabalpur 2021
Characteristics of technology:	Rich in Protien, Semi Dwarf, early maturing, non lodging, Yield 60-65 q/ha
Name of Crop/Enterprises:	Wheat / JW 3465
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: Lok 1 (mixed seed)	No. of tillers/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T2: JW 3465	No. of tillers/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Breeding
Title of on-farm trial:	Assessment of Improved variety of chickpea JG 24
Year/Season:	Rabi 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to sowing of unsuitable variety
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JG 315 mixed seed
T2 –Recommended Practice-	JG 24
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2020
Characteristics of technology:	Suitable for mechanical harvesting, Multi disease resistant, Maturity 110-120 days, Yield 22-25 q/ha
Name of Crop/Enterprises:	Chickpea / JG 24
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: JG 315 mixed seed	No. of pods/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T2: JG 24	No. of pods/ plant	Number				
	Net return	(Rs/ha)				
	Plant height	Cm				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	Assessment of raised bed planter in maize crop
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Water logging in maize field
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing by ordinary seed drill
T2 –Recommended Practice-	Sowing by raised bed planter
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2002
Characteristics of technology:	Raised bed planter maintain the proper drainage and plant population
Name of Crop/Enterprises:	Maize/ Raised Bed Planter
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: Sowing by ordinary seed drill	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T2: Sowing by raised bed planter	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 6

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	Assessment of tractor drawn bed planter for sowing of pigeonpea
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to inadequate water management
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Flat bed sowing of pigeonpea
T2 –Recommended Practice-	Sowing through bed planter
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, 2008
Characteristics of technology:	Sowing through bed planter maintain proper drainage
Name of Crop/Enterprises:	Pigeonpea/ Tractor Drawn Bed Planter
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: Flat bed sowing of pigeonpea	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T2: Sowing through bed planter	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 7

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	Assessment of zero till seed cum fertilizer drill for line sowing of mustard
Year/Season:	Rabi 2023
Farming situation:	Rainfed
Problem diagnosis:	Delay in sowing due to unavailability of optimum field condition for preparation
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use TD seed cum fertilizer drill after land preparation
T2 –Recommended Practice-	Sowing by zero till seed cum fertilizer drill
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2008
Characteristics of technology:	Sowing by zero till seed cum fertilizer drill reduce the time & Cost
Name of Crop/Enterprises:	Mustard/ Zero Till Seed Cum Fertilizer Drill
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: Use TD seed cum fertilizer drill	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T2: Sowing by zero till seed cum fertilizer drill	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 8

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	Assessment of raised bed planter for sowing of chickpea
Year/Season:	Rabi 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of chickpea due to poor plant population, heavy wilt incidence in compact soil and poor nitrogen fixation
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing by simple seed drill
T2 –Recommended Practice-	Sowing by raised bed planter
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	ICRISAT & CIAE, 2010
Characteristics of technology:	Sowing by raised bed planter maintain plant population, water economy and reduces wilt incidence
Name of Crop/Enterprises:	Chickpea/ Raised Bed Planter
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: Sowing by simple seed drill	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T2: Sowing by raised bed planter	Field capacity	ha/hr				
	Field efficiency	%				
	Yield	q/ha				
T3(Recommended Practice)						

OFT 9

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i> on growth performance in weaned kid
Year/Season:	2023-24
Farming situation:	Free Range
Problem diagnosis:	Poor growth in goat kids
Thematic area:	LPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No practice of Turmeric powder supplementation with <i>Saccharomyces cerevisia</i> in goat
T2 –Recommended Practice-	Feeding concentrate mixture with Turmeric powder @ 1.5% + 0.5 gm <i>Saccharomyces cerevisiae</i> per day for 90 days
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Bansode et al. National conference on Coordinated nutrition, health and extension for sustainable livestock production at NDVSU, Jabalpur : 21-22 September, 2022 :P -14
Characteristics of technology:	
Name of Crop/Enterprises:	Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i>
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: No practice of Turmeric powder supplementation with <i>Saccharomyces cerevisia</i> in goat	Body weight	Kg/A				
	Health condition					
T2: Feeding concentrate mixture with Turmeric powder @ 1.5% + 0.5 gm <i>Saccharomyces cerevisiae</i> per day for 90 days	Body weight	Kg/A				
	Health condition					
T3(Recommended Practice)						

OFT 10

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of performance of buffalo supplemented with bypass fatty acids and <i>Tinospora cordifolia</i>
Year/Season:	2023-24
Farming situation:	Stall fed
Problem diagnosis:	Low production
Thematic area:	LPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	: No use of bypass fatty acids with <i>Tinospora cordifolia</i>
T2 –Recommended Practice-	Supplementation of bypass fatty acids @ 150 gm and 150 gm <i>Tinospora cordifolia</i> per day for 90 days
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Rajneesh et al. National conference on Coordinated nutrition, health and extension

	for sustainable livestock production at NDVSU, Jabalpur : 21-22 September, 2022 :P-24
Characteristics of technology:	
Name of Crop/Enterprises:	Buffalo supplemented with bypass fatty acids and <i>Tinospora cordifolia</i>
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: : No use of bypass fatty acids with <i>Tinospora cordifolia</i>	Body weight	Kg/A				
	Health condition					
T2: Supplementation of bypass fatty acids @ 150 gm and 150 gm <i>Tinospora cordifolia</i> per day for 90 days	Body weight	Kg/A				
	Health condition					
T3(Recommended Practice)						

OFT 11

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of prepartum protein supplementation on performance of non descript cow
Year/Season:	2023-24
Farming situation:	Semi Stall fed
Problem diagnosis:	Low milk production
Thematic area:	LPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No supplementation of protein to pregnant cow
T2 –Recommended Practice-	Supplementation of concentrate containing 18%

	Crude Protien @ 2 kg per day for 10 week before and after calving
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Mishra et al. National conference on Coordinated nutrition, health and extension for sustainable livestock production at NDVSU, Jabalpur : 21-22 September, 2022 :P -46
Characteristics of technology:	
Name of Crop/Enterprises:	Supplementation of concentrate containing 18% Crude Protien @ 2 kg per day for 10 week before and after calving
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: : No supplementation of protein to pregnant cow	Body weight	Kg/A				
	Health condition					
T2: Supplementation of concentrate containing 18% Crude Protien @ 2 kg per day for 10 week before and after calving	Body weight	Kg/A				
	Health condition					
T3(Recommended Practice)						

OFT 12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of Gurhul flower (china rose) (<i>Hibiscus rosa-sinensis</i>) juice to control diarrhea in goat
Year/Season:	2023-24
Farming situation:	Semi-intensive

Problem diagnosis:	High treatment cost in allopathic
Thematic area:	ITK
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Allopathic treatment
T2 –Recommended Practice-	Juice of 2-3 Gurhul flowers orally twice a day for three day
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR Document- Traditional Knowledge in Agriculture Code 1585 page no 30
Characteristics of technology:	
Name of Crop/Enterprises:	Gurhul flower (China Rose) (<i>Hibiscus rosa-sinensis</i>) juice to control diarrhea in goat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: : Allopathic treatment	Body weight	Kg/A				
	Health condition					
T2: Juice of 2-3 Gurhul flowers orally twice a day for three day	Body weight	Kg/A				
	Health condition					
T3(Recommended Practice)						

OFT 13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of Shisham leaves (<i>Dalbergia sissoo</i>) paste on control of diarrhea in buffalo.
Year/Season:	2023-24

Farming situation:	Semi-intensive
Problem diagnosis:	High treatment cost in allopathic
Thematic area:	ITK
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Allopathic treatment
T2 –Recommended Practice-	Paste of 150-500 gm Shisham leaves in one liter water drench orally in 2-3 times a day for 2-3 day
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR Document- Traditional Knowledge in Agriculture Code 1287 page no 29
Characteristics of technology:	
Name of Crop/Enterprises:	Shisham leaves (<i>Dalbergia sissoo</i>) paste on control of diarrhea in buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: Allopathic treatment	Body weight	Kg/A				
	Health condition					
T2: Paste of 150-500 gm Shisham leaves in one liter water drench orally in 2-3 times a day for 2-3 day	Body weight	Kg/A				
	Health condition					
T3(Recommended Practice)						

OFT 14

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agroforestry
Title of on-farm trial:	Assessment of ginger (Suprabha) cultivation under shade of mango orchard
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Lack of knowledge about shade loving crops
Thematic area:	IFS
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	None
T2 –Recommended Practice-	Ginger cultivation under shade of Mango Orchard
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CAFRI , Jhansi 2008
Characteristics of technology:	Utilization of interspaces under mango orchard, extra income through shade loving crops
Name of Crop/Enterprises:	Ginger cultivation under shade of Mango Orchard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1: None	Yield	q/ha				
T2: Ginger cultivation under shade of Mango Orchard	Yield	q/ha				
T3(Recommended Practice)						

Information about Extension OFT:

OFT 1

Title	Assessment of effectiveness of visual based technical information dissemination through social media (Whats app)
Season & Year	2023-24
Problem identified	Delayed and lack of visual based technical information dissemination
Thematic Area	Agriculture Extension/ ICT
Farming situation	Rainfed & Irrigated
Name of Technology Intervention under study	Dissemination of technical information through Social media
Farmers Practice	Dissemination of technical information without Social media
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Level of Knowledge	Low medium High
Level of Adoption	Low medium High
Increase in Income	Low medium High

OFT 2

Title	Study on performance of Farmers Producer Organization (FPOs) in Katni district
Season & Year	2023-24
Problem identified	Low income, Lack of skill, Poor decision making of FPO members
Thematic Area	Agriculture Extension/ Group Approach
Farming situation	Rainfed & Irrigated
Name of Technology Intervention under study	Technical information Farmers Producer Organization (FPOs)
Farmers Practice	Lack of awareness
No. of replication (Farmers)	100

Results / findings

Performance indicators/ parameters	Unit/ details
Level of Knowledge	Low, medium, High
Income per farmer	Low, medium, High

OFT 2

Title of on-farm trial:	Assessment of bio waste decomposer for decomposition of crop residues
Year/Season:	2023-24
Problem diagnosis:	No use of bio decomposer, pollution while burning crop residue and soil health deterioration
Thematic area: (Focus area in DFI and nutri smart initiatives)	Natural Farming
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of decomposer for crop residue decomposition
T2 –Recommended Practice-	Crop residue straw making through straw reaper
T3 –Recommended Practice-	Decomposition of crop residue through Bacterial & Fungal base bio waste decomposer @ 500 ml for one ton raw material
Source of technology:	JNKVV, 2017
Characteristics of technology:	Reduce the burning of crop residues
Name of Crop/Enterprises:	Bio Waste Decomposer for Decomposition
Farming situation:	Normal
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

(A) Economic Performance Home Science OFT: (For Drudgery Reduction)

Detail of Technology	Output *	Est. Energy Expenditure kj/ min	WHR beat/min	% reduction in drudgery	% increase in efficiency	Cardiac Cost of Work	% Saving of cardiac Cost
T ₁ (Farmers Practices)							
T ₂ (Recommended Practices)							
T ₃ – Recommended Practice							

OFT 3

Title of on-farm trial:	Assessment of suitability of millet (Ragi and Barley) to improve the malnutrition status of the farm family
Year/Season:	Rabi 2023
Problem diagnosis:	High magnitude of malnutrition among farm families
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No Millet (Traditional Crop)
T2 –Recommended Practice-	Millet (Ragi VL 376 & Barley DWRB 137)
Source of technology:	ICAR-IIWBR, Karnal, 2018; ICAR-VPKAS, Almora, 2016
Characteristics of technology:	Crop diversification and promoting millet crop
Name of Crop/Enterprises:	Millet (Ragi VL 376 & Barley DWRB 137)
Farming situation:	Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

(A) Economic Performance Home Science OFT: (For Nutritional security)

Name of Enterprise /product: -.....

[illegible]

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice/ JR 81	Varietal assessment	Demonstration of Improved variety of rice JR 81	Seed Variety JR 81	Kharif 2023	4.0 ha	10	No. of tillers/ plant, Spikelet fertility (%), plant height (cm), Yield (q/ha), Net return, BC ratio
2	Pigeonpea/ Rajeevlochan	Varietal assessment	Demonstration of Improved variety of Pigeonpea Rajeevlochan	Seed Variety Rajeevlochan	Kharif 2023	4.0 ha	10	No. of branches/ plant, No. of pods/ plant, No. of seeds/ pod, Yield (q/ha), Net return, BC ratio
3	Chickpea/ RVG 203	Varietal assessment	Demonstration of Improved variety of Chickpea RVG 203	Seed Variety RVG 203	Rabi 2023	4.0 ha	10	No. of pods/ plant, Yield (q/ha), Net return, BC ratio
4	Lentil/ IPL 316	Varietal assessment	Demonstration of Improved variety of Lentil IPL 316	Seed Variety IPL 316	Rabi 2023	4.0 ha	10	No. of pods/ plant, Yield (q/ha), Net return, BC ratio
5	Rice/ Tractor Drawn Seed Cum Fertilizer Drill	AEG	Demonstration of tractor drawn seed cum fertilizer drill for direct sowing of rice	Tractor Drawn Seed Cum Fertilizer Drill	Kharif 2023	4.0 ha	10	Yield q/ha, Economics, BC ratio
6	Rice/ Rotary Paddy Weeder	AEG	Demonstration of Rotary paddy weeder for effective weed management in rice	Rotary Paddy Weeder	Kharif 2023	4.0 ha	10	Weeding efficiency, Yield q/ha, Economics, BC ratio
7.	Wheat/ Happy Seeder	AEG	Demonstration of direct sowing of wheat through Happy seeder	Happy Seeder	Rabi 2023	4.0 ha	10	Field efficiency %, yield q/ha , Net return, B:C ratio
8	Wheat/ Tractor	AEG	Demonstration of	Tractor Drawn	Rabi 2023	4.0 ha	10	Field efficiency %,

	Drawn Front Mounted Vertical Conveyor Reaper		performance of tractor drawn front mounted vertical conveyor reaper for harvesting wheat	Front Mounted Vertical Conveyor Reaper				yield q/ha , Net return, B:C ratio
9	Poultry/ Kadaknath	LPM	Demonstration of Kadaknath poultry in back yard system	Kadaknath Chicks	2023	10	10	Mortality rate(%), egg Production (no./year), Body weight(g/month), B:C ratio
10	Goat/ Probiotic supplementation	LPM	Demonstration of Probiotic supplementation on Growth parameters of goat	Probiotic supplementation	2023	10	10	Body weight, Health condition , B:C ratio
11	Goat/ Supplemented with Concentrate Mixture	LPM	Demonstration of growth performance of non- descript goat supplemented with concentrate mixture under field condition	Supplemented with Concentrate Mixture	2023	10	10	Body weight, Health condition , B:C ratio
12	Buffalo/ Essential Micronutrient Supplementation	LPM	Demonstration of essential micronutrient supplementation in performance of buffalo	Essential Micronutrient Supplementation	2023	10	10	Milk yield, Postpartum heat and B:C ratio
13	Kisan Mobile Advisory	Information Communication Technology	Dissemination of agricultural information through mobile messaging for enhancing the farmers income in existing situation through Kisan Mobile Advisory Services (KMAS)	Kisan Mobile Advisory	2023	50	50	Need & time based information, Understanding of the message, Applicability of the message, Farmer's Response

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	October 2023	72
2	Farmers Training	03	November 2023	95
3	Media coverage	02	-	Mass
4	Training for extension functionaries	02	June & October 2023	50

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Tractor Drawn Seed Cum Fertilizer Drill	Rice	Kharif 2023	10	4.0	-	Yield q/ha, Economics, BC ratio		
Rotary Paddy Weeder	Rice	Kharif 2023	10	4.0	-	Weeding efficiency, Yield q/ha, Economics, BC ratio		
Happy Seeder	Wheat	Rabi 2023	10	4.0	-	Field efficiency %, yield q/ha , Net return, B:C ratio		
Tractor Drawn Front Mounted Vertical Conveyor Reaper	Wheat	Rabi 2023	10	4.0	-	Field efficiency %, yield q/ha , Net return, B:C ratio		

**Field efficiency, labour saving etc.*

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Kadaknath	Poultry	10	200	Kadaknath Chicks	Mortality rate(%), egg Production (no./year), Body weight(g/month), B:C ratio		
Probiotic supplementation	Goat	10	10	Probiotic supplementation	Body weight, Health condition , B:C ratio		

Supplemented with Concentrate Mixture	Goat	10	10	Supplemented with Concentrate Mixture	Body weight, Health condition , B:C ratio		
Essential Micronutrient Supplementation	Buffalo	10	10	Essential Micronutrient Supplementation	Milk yield, Postpartum heat and B:C ratio		

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/ Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Kisan Mobile Advisory	All crops	50	01	Kisan Mobile Advisory	Need & time based information, Understanding of the message, Applicability of the message, Farmer's Response		

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeonpea	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Kharif 2023	20	50	Yield q/ha, Economics, BC ratio
2	Sesame	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Kharif 2023	20	50	Yield q/ha, Economics, BC ratio
3	Chickpea	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Rabi 2023-24	20	50	Yield q/ha, Economics, BC ratio
4	Lentil	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Rabi 2023-24	20	50	Yield q/ha, Economics, BC ratio
5	Mustard	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Rabi 2023-24	20	50	Yield q/ha, Economics, BC ratio
6	Linseed	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Rabi 2023-24	20	50	Yield q/ha, Economics, BC ratio
7	Green Gram	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Zaid 2024	20	50	Yield q/ha, Economics, BC ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	Flowering stage	280
2	Farmers Training	10	Sowing & Flowering	250
3	Media coverage	10	-	Mass
4	Training for extension functionaries	02	June & October	50

Training (Including the sponsored and FLD training programmes):

A. ON Campus

[illegible]

Total									
VIII Fisheries									
Integrated fish farming									
Total									
IX Production of Inputs at site									
Vermi-compost production									
Organic manures production									
Total									
X Capacity Building and Group Dynamics									
Leadership development	03	03							75
Group dynamics									
Formation and Management of SHGs	02	02							50
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
Total	05	05							125
XI Agro-forestry	1	1							25
Total	1	1							25
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production									
Bee-keeping									
Seed production	02	10							50
Planting material production									
Vermi-culture	02	10							50
Value addition	02	10							50
Sheep and goat rearing	02	10							50
Para extension workers	02	10							50
Other	02	10							50
TOTAL	12	120							300
(C) Extension Personnel									
Productivity enhancement in field crops	02	02							50
Integrated Pest Management									
Integrated Nutrient management									
Protected cultivation technology	01	01							25
Group Dynamics and farmers organization									
Capacity building for ICT application	02	02							50
Livestock feed and fodder production	02	02							50
Production and use of organic inputs									
Gender mainstreaming through SHGs									
Any other (Pl. Specify)	05	05							125
TOTAL	12	12							305

B. OFF Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
Weed Management									
Resource Conservation Technologies									
Cropping Systems	02	02							50
Crop Diversification									
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management	08	08							200
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising									
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management	03	03							75

TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	F & FW	Improved production techniques of Kharif crops	01							25
June	F & FW	Importance of improved variety of kharif crops	01							25
October	F & FW	Importance of improved variety of rabi crops	01							25
June & October	F & FW	Seed Treatment: Importance & Techniques	02							50
March	F & FW	PPV & FRA	01							25
March	F & FW	Protection of plant Variety and Farmers right Authority.	01							25
Horticulture										
Livestock production										
April	F & FW	Preparation of balance ration for dairy animals from local available feed ingredients	01							25
April	F & FW	Important diseases of livestock, their prevention and control	01							25
January	F & FW	Important diseases of animals & their management	01							25
March	F & FW	Green fodder cultivation technology and its importance in dairy business (kharif & Rabi)	01							25
Agril. Engineering										
March	F & FW	Use of reaper for harvesting of wheat	01							25
May	F & FW	Operation and maintenance of harvesting and threshing implements	01							25
Home Science/ Women in Agriculture										
April	F & FW	Safe storage of semi-perishable farm produces	01							25
May	F & FW	Management of household waste water through soaking pit technique	01							25

Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
July	F & FW	Application of bio fertilizers in different methods	01							25
April	F & FW	Motivation of farmers toward soil sample collection	01							25
June	F & FW	Creating awareness in farmers and farm women about improved agricultural implements	01							25
October	F & FW	Create awareness about storage and warehouses	01							25
March	F & FW	How to use the facilities of ware house available in the area in order to reduced the storage losses	01							25
July & November	F & FW	Create awareness about crop production technology	02							50
Soil Science										
Agro-forestry										
October	F & FW	Cultivation methods of bee keeping.	01							25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	F & FW	Improved production techniques of Kharif crops	01							25
July	F & FW	Importance of improved variety of kharif crops	01							25
January	F & FW	Improved production techniques of rabi crops	01							25
December	F & FW	Improved production techniques of rabi crops	01							25
September	F & FW	Importance of improved variety of rabi crops	01							25
May	F & FW	Seed Germination Testing	01							25
February	F & FW	IPM & IDM in Rabi crops								
April & September	F & FW	Seed storage Techniques	02							50
July & November	F & FW	Importance of quality seed in crop production	02							50

		(Kharif & Rabi)								
Horticulture										
Livestock production										
May	F & FW	Feeding and management of dairy animals in summer	01							25
July	F & FW	Importance of green fodder in feeding of dairy animals	01							25
August	F & FW	Management of Mastitis in dairy animals	01							25
September	F & FW	Importance of artificial insemination in dairy animals	01							25
January	F & FW	Importance of micronutrients in cattle and buffalo	01							25
September	F & FW	Backyard Poultry farming	01							25
December	F & FW	Feeding and Management in goat farming	01							25
February	F & FW	Preparation of balance diet for lactating buffaloes and cows	01							25
October	F & FW	Importance of vaccination in large animals	01							25
August	F & FW	Hygiene management of animal, their houses and its product	01							25
June	F & FW	Parasites of dairy animals& their management	01							25
November	F & FW	Various methods of green fodder Conservation (kharif & Rabi)	01							25
Agril. Engineering										
December	F & FW	Importance of drip irrigation system in horticultural crops	01							25
March	F & FW	Importance of micro-irrigation system	01							25
September	F & FW	Improved implements for interculture operations in kharif crops	01							25
June	F & FW	Seedbed preparation techniques by machines	01							25
November	F & FW	Use of Zero till machine and happy seeder in wheat sowing	01							25
April	F & FW	Operation and maintenance of harvesting and threshing implements.	01							25
April	F & FW	Improved machinery for post harvest operations	01							25
July	F & FW	Importance of ridge & furrow method	01							25
October	F & FW	Importance of raised bed system in chickpea	01							25
February	F & FW	Improved implements for interculture operations in Rabi crops	01							25
May	F & FW	Importance of summer deep ploughing	01							25

Home Science/ Women in Agriculture

June	F & FW	Household food security by kitchen gardening and nutrition gardening	01							25
February	F & FW	Low cost energy rich diet with millets	01							25
July	F & FW	Purification of water for drinking	01							25
May	F & FW	Management of nutrient loss during processing	01							25
January	F & FW	Processing and cooking of Minor millets	01							25
December	F & FW	Value addition of leafy vegetables	01							25
June	F & FW	Women empowerment	01							25
April	F & FW	Drudgery reduction in weeding and harvesting of crops	01							25
August	F & FW	Sanitation and hygiene	01							25
November	F & FW	Processing and cooking of Macro millets	01							25
October	F & FW	Diet plan during lactation period	01							25
January	F & FW	Women and child care	01							25
March	F & FW	Management of sickle cell and anemia among girls	01							25
September	F & FW	Household waste management through vermi composting	01							25

Plant Protection

[illegible]

Agriculture Extension (Capacity Building and Group Dynamics)									

December	F & FW	Development of leadership through motivation techniques in village	01							25
May	F & FW	Creating awareness among farmer through Information Communication Technology	01							25
February	F & FW	Importance of digital ICTs among farming community	01							25
September	F & FW	Different agricultural information sources for farmers	01							25
August	F & FW	Technical dimensions for sustainable agriculture	01							25
April	F & FW	Group marketing approach to fetch high price of produce	01							25
January	F & FW	How to disseminate the Agricultural technology through Social media	01							25

Soil Science

[illegible]

Agro-forestry

Agriculture Extension (Capacity Building and Group Dynamics)										
January	F & FW	Development of entrepreneurship & income generating activities among rural youth	05							25
September	F & FW	Formation and management of organic group	05							25
Soil Science										
Agro-forestry										
November	F & FW	Integrated Farming	05							25
May	F & FW	Farm Bio Waste Management	05							25

Training Programme for Extension Functionaries:

[illegible]

Agriculture Extension (Capacity Building and Group Dynamics)											
April	IS	To aware about agricultural technology through different Agriculture IT tools (apps)	01								25
July	IS	Create awareness about various agricultural information available in digital media	01								25
Soil Science											
Agro-forestry											
October	IS	Control of fruit drops in aonla & jackfruits	01								25
June	IS	Energy plantation on wasteland	01								25

iii) **Sponsored Training Programmes: Need based**

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS: Not Allotted

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
	Tomato		1000
	Brinjal		1000
	Chilli		1000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
Jan- March 2023	01	1000
April- June 2023	01	1000
July- September 2023	01	1000
October- December 2023	01	1000
Folder	06	500
Bulletin	06	Mass

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Radio Talks		
2	TV Talks		
3	Newspaper coverage		20
4	Internet (Youtube)		
5	Social media (Whatapp,Facebook,Instagram,Twitter etc		20

Success stories/Case studies identified for development as a case: 02

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA & Interface
2	Rural Youth	PRA & Interface
3	In-service personnel	Interface
4	Methodology for identifying OFTs/FLDs	PRA & Interface
5	Matrix ranking	PRA & Interface

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Mahgawan	Dhimarkheda	31 km
2	Dhuri	Bahoriband	32 km
3	Vasudha	Rithi	35 km
4	Majhgawan	Badwara	32km
5	Bhainswahi	Vijayraghavgarh	40 km
6	Shahpur (Niwar)	Katni	20 km

1. No. of farm families selected per village : 30

2. No. of survey/PRA to be conducted: 03

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: NA

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	350	450	20	
Water Samples	-	-		
Total	350	450	20	

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Training, Scientist farmer interface, Kisan mela etc
Department of Horticulture	Training, Scientist farmer interface, Kisan mela etc
Department of Animal Husbandry	Training, Scientist farmer interface, Kisan mela etc
Department of Fishery	Training, Scientist farmer interface, Kisan mela etc
NRLM & RSETI	Training, Scientist farmer interface, Kisan mela etc
NGO & FPO	Training, Scientist farmer interface, Kisan mela etc

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district **Yes**

Name of Programme	Nature of linkage
ATMA	Training, Scientist farmer interface, Kisan mela etc

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: **0.4 ha**

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	JR 81, JR 206, JRB 1, Improved Chinnor, Swarna Shreya , IR 64, P 1401, MTU 1010, Kranti, Kshatriya, Badshahbhog, CR Dhan 310		3 x 5
Green Gram (04)	Kharif	Virat, Shikha, PDM139 , TJM 37		3 x 5
Black Gram (05)	Kharif	Aad 1, T 9, PU 35, PU 19, JU 3		3 x 5
Pigeonpea (03)	Kharif	TJT 501, Rajeshwari, Rajeevlochan		3 x 5
Sesame (03)	Kharif	TKG 308, TKG 308, RT 351		3 x 5
Kodo Millet (04)	Kharif	JK 13, JK 65, JK 137, JK 98		3 x 5
Little Millet (02)	Kharif	JK 36, JK 4		3 x 5
Maize (03)	Kharif	JM 216, JM 8, Sugar 75		3 x 5
Sorghum (03)	Kharif	JJ 741, JJ 938, JJ 1041		3 x 5
Fodder (04)	Kharif	Maize, Stylo grass, Anjan grass, Ginni grass		3 x 5
Wheat (15)	Rabi	JW 3173, HI 8713, HI 1544, GW 322, GW 273, GW 366, HI 8759, HI 8663, HI 1605, JW 1202, JW 3211, JW 3288, JW 3382, Lok 1, HI 8759		3 x 5
Gram (11)	Rabi	JAKI 92-18, JG 12, JG 74, JG 315, JG 14, JG 16, JG 63, JG 322 RVS 202, RVG 203, JG 36		3 x 5
Lentil (04)	Rabi	JL 3, Shekhar Masoor 3, IPL 316, RVL 11-6		3 x 5
Mustard (02)	Rabi	RH 0749, Pusa Jai Kisan		3 x 5
Linseed (03)	Rabi	JLS 66, JLS 79, JLS 95		3 x 5
Ragi (02)	Rabi	VL 376, VL 379		3 x 5

Pearl Millet (02)	Rabi	JBV 4, JBV 3		3 x 5
Barley (01)	Rabi	DWRB 137		3 x 5

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Crop Cafeteria	Kharif & Rabi	0.4 ha	-
Orchard	Mango, Guava, Custard apple, Citrus	1.25 ha	-
Fodder	Spineless Cactus	0.4 ha	-
Fish Pond	Rohu, Katla, Mrigal	0.16 ha	-
Poultry	Kadaknath, Narmada Nidhi	01 unit	-
Vermi Compost	Vermi Compost	02 unit	-
NADEP	NADEP	03 unit	-
Dairy	HF	01 unit	-
Azolla Production	Azolla Production	10 unit	-
Natural Farming	Beejaamrit, Neemstra, Jeevaamrit, Agniastra etc	0.8 ha	-

ANNUAL ACTION PLAN 2023

KVK Mandla

Year of sanction: 2023

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. K V Sahare	KVK Mandla	9039937852	kvsahare@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. K V Sahare	Sr. Sc. & Head	Agri. Extension	37400-67000+ AGP 9000(7 pay-147900)	01.02.2019	2022	9039937852	kvsahare@rediffmail.com	
2	Subject Matter Specialist	Dr. Deepali Bajpai	Scientist	Food Science	15600 & 39100 +AGP 8000 (7 pay-104100)	24.01.2007	2020	9425788032	deepalibajpai2007@gmail.com	
3	Subject Matter Specialist	Dr. R P Ahirwar	Scientist	Soil Science	15600 & 39100 +AGP 6000(7 pay-73000)	23.08.2017	2019	9131728448	rameshwar_jan@rediffmail.com	

1.3 Total land with KVK (in ha): 20

S. No.	Item	Area (ha)
1	Under Buildings	0.2
2	Under Demonstration Units	0.5
3	Under Crops	1
4	Orchard/Agro-forestry	0.1
5	Others (undulated land /uncultivable)	18.2
Total		20

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR		373.23				
2	Farmers Hostel	ICAR		455.22				
3	Staff Quarters (6)	ICAR		350				
4	Demonstration Units (2)	ICAR						
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Power Tiller	2016	202451.00	20 hours	Working
Motor Cycle 2	2010		45323	Old vehicle
Bolero(Jeep)	2007		145654	15 yrs old transfer in exchange from registrar jnkvv
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2009	45422.00	Not Working
TV	2017	49750.00	Working
Sound/Podium	2017	58379.00	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	Pre Kharif 10.07.2023
2	Pre Rabi 07.11.2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice- Wheat Cropping System
2	AES – 2	Rice- Chickpea Cropping System
3	AES – 3	Rice-Pea Cropping System
4	AES – 4	Kodo+Pigeonpea-Fellow
5	AES – 5	Pigeonpea-Fellow
6	AES – 6	Niger-Fellow

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone- North Hill Zone of Chattisgarh (MP-3)	Characteristics
1	AES – 1 Rice- Wheat Cropping System	Heavy soil- Fertility-More, Water Holding Capacity-High Easy of Tillage –Difficult, Humus-More
2	AES – 2 Rice- Chickpea Cropping System	Medium soil- Fertility-Medium, Water Holding Capacity-Medium Easy of Tillage –Moderate, Humus- Medium
3	AES – 3 Rice-Pea Cropping System	Medium soil- Fertility-Medium, Water Holding Capacity-Medium Easy of Tillage –Moderate, Humus- Medium
4	AES – 4 Kodo+Pigeonpea-Fellow	Light soil- Fertility-Very Less, Water Holding Capacity-Low Easy of Tillage –Easy, Humus-Low
5	AES – 5 Pigeonpea-Fellow	Light soil- Fertility-Very Less, Water Holding Capacity-Low Easy of Tillage –Easy, Humus-Low
6	AES – 6 Niger-Fellow	Light soil- Fertility-Very Less, Water Holding Capacity-Low Easy of Tillage –Easy, Humus-Low

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
Good for paddy and wheat cultivation, Rice-wheat cropping system	Deep cracking of black soil		

AES-2 (name)

Strength	Weakness	Opportunities	Threats
• Soil- Fertility Medium used for Rice- Chickpea Cropping System	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
• Light soil and Fertility-Very Less used for Kodo/kutki+Pigeonpea-Fellow	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	959290
Forest	492140
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	243800
Kharif	200000
Rabi	131000
Zaid	
Cropping Intensity	134

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	77.9
2	Well	14.2
3	Tube well	
4	Ponds	
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light	Fertility-Very Less, Water Holding Capacity-Low Easy of Tillage –Easy, Humus-Low	112.148
2	Medium	Fertility-Medium, Water Holding Capacity-Medium Easy of Tillage –Moderate, Humus- Medium	78016
3	Heavy	Fertility-More, Water Holding Capacity-High, Easy of Tillage –Difficult, Humus-More	53636

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (.000tan)	Productivity (Q /ha)
1	Paddy	50435	4599.38	34.24
2	Pigeonpea	6713	42.13	12.67
3	Niger	4254	15.91	2.67
4	Kodo/kutki	29425	27200	8.85
5	Maize	2582	432.59	21.67
6	Wheat	48000	960	20.30
7	Gram	27000	117.31	13.53
8	Pea	27400	77.89	13.15
9	Mustard	25000	111.75	6.67
10	Linseed	7100	26.17	6.14

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22			
Feb, 22			
Mar, 22			

Apr, 22			
May, 22			
Jun, 22			
July, 2022			
Aug., 2022			
Sept., 2022			
Oct. 2022			
Nov. 2022			
Dec. 2022			
Total	1561.12	5	45

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	486200	149560 MT.	1.95 kg
Buffalo	82098		2.3 kg
Sheep			
Crossbred/ Indigenous	102	-..... MT wool	...-..... kg
Goats	109461	-..... MT	...-..... kg
Pigs Crossbred/ Indigenous	17160	---	---
Rabbits			
Poultry			
Hens	361530	234.59 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Mandla	Mandla	Dungariya	Paddy, pigeon pea, wheat, gram	Use Imbalance fertilizers, High seed rate	INM,IPM
2	Mandla	Mandla	Khuksar	Paddy, pigeon pea, wheat, gram	Use Imbalance fertilizers, High seed rate	INM,IPM
3	Mandla	Niwas	Babaliya	Paddy, pigeon pea, wheat, gram	Use Imbalance fertilizers, High seed rate	INM,IPM

Priority / Thrust areas

S. No.	Particulars
1.	Integrated nutrient management
2.	Integrated pest management
3	Availability of quality seed through seed production technology and Seed replacement.
4	Crop diversification
5	Rainwater and irrigation management and irrigation methods
6	Farm mechanization and drudgery reduction
7	Increasing productivity of vegetables
8	Integrated livestock management
9	Nutritional security at household level and Development of nutritional garden
10	Promotion of organic farming along with balanced nutrition.

11	Value addition of agricultural produces
12	Soil and water conservation
13	Water management
14	Women empowerment through making SHG for income generation

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
12	60	9	90

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	1500	90	5000

Seed Production (Qtl.)	Planting material (Nos.)
0	5000

B. Abstract of interventions to be undertaken

S. N o.	Thru st area	Crop/ Enterpri se	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Trainin g if any	Title of training for extensi on person nel if any	Extensi on activities	Supply of seeds, planting materials etc.
1	INM	Paddy	Imbalanc e fertilizers	Assessment of Nano fertilizer in transplanted Rice					
2	Valu e addit ion	Kodo	Lack of processin g and value addition		Demonstration of income generation through processing and value addition of minor millets				
3	Poult ry Man age ment	Poultry			Demonstratio n on rearing of Kadaknath breed of chicken under backyard system				
4									

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
INM	1	1	2	0	0	0	0	0	0	4
Value addition	1	0	0	0	0	0	0	0	0	1
Nutritional securities	0	0	0	0	1	0	0	0	0	1
TOTAL										6

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Animal health Management	0	0	0	1	0	0	0	1
Animal nutrition management	0	0	0	1	0	0	0	1
Poultry Management	0	2	0	0	0	0	0	2

TOTAL								4

Detailed Information about Soil Science OFT:

OFT-1

Crop/Enterprise	Paddy
Title of on-farm trial	Assessment of Nano fertilizer in transplanted Rice
Problem diagnosed	Less availability of urea & other fertilizers.
Farming situation	Irrigated
Production system and thematic area	Soil fertility management
Farmers' practices	Urea @150 kg/ha and DAP @100 kg/ha
Details of technologies selected for assessment/refinement Treatments	T1: Urea @150 kg/ha and DAP @100 kg/ha T2:NPK (50:50:40) + Nano fertilizer (4ml/lit water)
Source of technology	IFFCO 2019
No. of farmers	5
Area of each trial	0.4
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Each Farmers two Bottles of Nano Urea
Performance indicators Observation to be recorded	No of Tillers/hills, Yield q/ha, B:C ratio
Cost of input	5000
Total cost	5000

OFT-2

Crop/Enterprise	Chickpea
Title of on-farm trial	Assessment of Jeevamrut on Yield of Chickpea under Natural Farming
Problem diagnosed	Low yield of Chickpea due to imbalance nutrition.
Farming situation	Irrigated
Production system and thematic area	Natural Farming
Farmers' practices	Chemical Farming
Details of technologies selected for assessment/refinement Treatments	T1: Urea 100kg/ha and DAP 50 kg/ha T2: Soil application of jeevamrut @ 500kg /ha in 2 equal splits during sowing, Foliar application of Jeevamrut @ 5-10 % at 20, 40, and 60 DAS
Source of technology	Low Bugged Natural Farming 4 th edition book (Jan, 2019) By Acharya Devrat

No. of farmers	5
Area of each trial	0.4
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	One Plastic Drum (200L), Jiggery (4kg), Basin (4kg) for each Farmers
Performance indicators Observation to be recorded	No. of Pod/Plant, 100 seed weight Yield q/ha, B:C Ratio
Cost of input	8000
Total cost	8000

OFT -3

Crop/Enterprise	Pigeonpea+Kodo
Title of on-farm trial	Assessment of Low budget Natural Farming on Kodo+ Pigeonpea intercropping
Problem diagnosed	Low yield of pigeonpea due to imbalance nutrition.
Farming situation	Rainfed
Production system and thematic area	Natural Farming
Farmers' practices	Chemical Farming
Details of technologies selected for assessment/refinement Treatments	T1: Urea 50 kg/ha and DAP 50 kg/ha in pigeonpea crop T2: Seed Treatment with Beejamrut @ 20 ml / kg seed Soil application of jeevamrit @ 500kg /ha in 2 equal splits during sowing, Live mulching: Intercropping of Pigeonpea with Kodo (1:5) Foliar application of Jeevamrut @ 5-10 % at 20, 40, 60 and 80 DAS Foliar Application of Brmahstra/Agniastra @ 6 liter/500 liter water/ha for controlling leaf folder and Pod borer
Source of technology	Low Bugged Natural Farming 4 th edition book (Jan, 2019) By Acharya Devrat
No. of farmers	5
Area of each trial	0.4
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	One Plastic Drum (200L), Jiggery (6kg), Basin (6kg) for each Farmers
Performance indicators Observation to be recorded	Yield q/ha, B:C Ratio, Soil pH, EC, OC, Soil Nitrogen, Phosphorus and Potash, Farmers reaction
Cost of input	9000
Total cost	9000

OFT -4

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of effect of sulphur on yield of Mustard crop
Problem diagnosed	Yield reduction of Mustard due to lack of sulphur application
Farming situation	Irrigated
Production system and thematic area	Nutrient Management
Farmers' practices	T1: Urea 100 and DAP 50kg/ha
Details of technologies selected for assessment/refinement Treatments	T2: RDF (80:40:20 kg/ha)+ Soil Application of sulphur @ 25 kg/ha based on STV
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.4
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Bentonite Sulphur fertilizers
Performance indicators Observation to be recorded	Yield q/ha, B:C ratio,
Cost of input	10000
Total cost	10000

Information about LPM OFT:

OFT -5

Crop/Enterprise	Goat
Title of on-farm trial	Assessment of Gurhal flower (Hibiscus rosa-sinensis) juice to control goat diarrhoea (3rd Year)
Problem diagnosed	High treatment cost under conventional Allopathic treatment regime
Farming situation	Semi-intensive
Production system and thematic area	Animal health Management
Farmers' practices	conventional Allopathic treatment regime
Details of technologies selected for assessment/refinement Treatments	T1-conventional Allopathic treatment regime T2-Juice of gurhal flowers (2-3 flowers) is orally administered twice a day for 3 days

Source of technology	Booklet On Indigenous Technical Knowledge (ITKS) No.32-33
No. of farmers	05
Area of each trial	-
No of trial	05
No. of animals (if animals are part of OFT)	05
Critical input	
Performance indicators Observation to be recorded	1. Cost of Treating diarrhoea 2. Days for recovery
Cost of input	-
Total cost	3000

OFT -6

Crop/Enterprise	Goat
Title of on-farm trial	Assessment of Stall Feeding System and Grazing System of Goat Rearing (1st Year)
Problem diagnosed	Low growth due to more energy loss in grazing system
Farming situation	Semi-intensive
Production system and thematic area	Animal nutrition management
Farmers' practices	conventional Grazing System
Details of technologies selected for assessment/refinement Treatments	T1-conventional Grazing System throughout the day T2- Only stall feeding (Fodder + 100 gm Concentrate)
Source of technology	UAS, Raichur 2014
No. of farmers	05
Area of each trial	-
No of trial	05
No. of animals (if animals are part of OFT)	25
Critical input	Concentrate
Performance indicators Observation to be recorded	Body wt.
Cost of input	2500
Total cost	5000

OFT -7

Crop/Enterprise	Poultry
Title of on-farm trial	Assessment of use of azolla as protein source for feeding of backyard poultry (3rd Year)
Problem diagnosed	Low growth and less body wt gain
Farming situation	Semi-intensive
Production system and thematic area	Poultry Management
Farmers' practices	Scavenging and foraging in backyard
Details of technologies selected for assessment/refinement Treatments	T1- Scavenging and foraging in backyard T2- T1+ feeding fresh azolla @ 5% level/day/bird
Source of technology	CARI 2013
No. of farmers	05
Area of each trial	-
No of trial	05
No. of animals (if animals are part of OFT)	Min. 20 birds in one unit
Critical input	Azolla bed, Azolla culture
Performance indicators Observation to be recorded	1. Body wt at 16 week age
Cost of input	6000
Total cost	8000

OFT -8

Crop/Enterprise	Poultry
Title of on-farm trial	Assessment of improved birds in backyard poultry farming (1st Year)
Problem diagnosed	Low growth and less production
Farming situation	Semi-intensive
Production system and thematic area	Poultry Management
Farmers' practices	Rearing of non-described local birds in backyard
Details of technologies selected for assessment/refinement Treatments	T1- Rearing of non-described local birds in backyard T2- Rearing of Narmada Nidhi breed in backyard poultry farming
Source of technology	NDVSU 2016
No. of farmers	05
Area of each trial	-

No of trial	05
No. of animals (if animals are part of OFT)	Min. 40 birds in one unit
Critical input	Chicks of Narmada Nidhi breed
Performance indicators Observation to be recorded	Body wt at 16 week age
Cost of input	10000
Total cost	13000

Information about Home Science OFT:

OFT -9

Crop/Enterprise	Paddy
Title of on-farm trial	Assessment of suitability of biofortified CR Dhan -310 for malnourished farm families.
Problem diagnosed	High magnitude of malnutrition among farm families.
Farming situation	Rainfed
Production system and thematic area	Nutritional Security
Farmers' practices	MTU 1010
Details of technologies selected for assessment/refinement Treatments	T1 – MTU 1010 T2 - CR Dhan 310
Source of technology	ICAR-NRRI, Cuttack, Orissa, 2016
No. of farmers	05
Area of each trial	0.4 ac
No of trial	5
No. of animals (if animals are part of OFT)	0
Critical input	Seed
Performance indicators Observation to be recorded	Per capita Consumption gm/ day, Energy (kcal), Protein (gm), Iron (mg), Calcium (mg)
Cost of input	2500.00
Total cost	2500.00

OFT -10

Crop/Enterprise	Drumstick leaf
Title of on-farm trial	Assessment of incorporation of drumstick leaf powder as daily diet for anemic women.

Problem diagnosed	High magnitude of malnutrition among farm women.
Farming situation	-
Production system and thematic area	Nutritional Security
Farmers' practices	No use of drumstick leaf powder
Details of technologies selected for assessment/refinement Treatments	T1- No use of drumstick leaf powder T2- Drumstick Leaf Powder (20g/capita/day)
Source of technology	Anand , Gujrat-2010
No. of farmers	05
Area of each trial	-
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Drumstick leaf Powder
Performance indicators Observation to be recorded	Energy (kcal), Protein (gm), Iron (mg), Calcium (mg), Hb (g/dL)
Cost of input	2000.00
Total cost	2000.00

OFT -11

Crop/Enterprise	Mahua Flower
Title of on-farm trial	Assessment of consumption of mahua laddu on nutritional status of preschool children.
Problem diagnosed	Malnourished in children.
Farming situation	-
Production system and thematic area	Nutritional Security
Farmers' practices	No use of mahua flower
Details of technologies selected for assessment/refinement Treatments	T1-No use of mahua flower T2- Mahua flower in the form of mahua laddu
Source of technology	OUAT, 2016
No. of farmers	05
Area of each trial	-
No of trial	05
No. of animals (if animals are part of OFT)	-

Critical input	Mahua laddu
Performance indicators Observation to be recorded	Per capita Consumption gm/ day, Energy (kcal), Protein (gm), Iron (mg), Calcium (mg), BMI %
Cost of input	2000.00
Total cost	2000.00

OFT -12

Crop/Enterprise	Mahua Seed Decorticator
Title of on-farm trial	Assessment of drudgery reduction and improve work efficiency of farm women using mahua seed decorticator
Problem diagnosed	Heavy drudgery during manually seed decortications
Farming situation	-
Production system and thematic area	Drudgery Reduction
Farmers' practices	Manual seed decortications
Details of technologies selected for assessment/refinement Treatments	T1 -Manual Seed Decortication T2- Mahua Seed Decorticator
Source of technology	OUAT-2018
No. of farmers	05
Area of each trial	10 Kg / Farmers
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Mahua Seed Decorticator (Only Research Purpose)
Performance indicators Observation to be recorded	Output. Est. Energy Exp. kj/min., WHR beat/min, % reduction in drudgery, % increase in efficiency
Cost of input	0
Total cost	9000.00 (Equipment purchased in first year)

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Paddy	Nutrient Management	Demonstration of Leaf Colour Chart (LCC) for management of nitrogen in rice production	5000	Kharif 2023	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction
2	Wheat	Integrated Nutrient Management	Demonstration of Integrated Nutrient Management on Wheat production under Rice-wheat cropping system	15000	Rabi 2023	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction
3	Paddy	Integrated Nutrient Management	Demonstration of integrated nutrient management on yield of Rice under Rice-Chickpea cropping system	15000	Kharif 2023	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction
4	Chickpea	Integrated Nutrient Management	Demonstration of Integrated Nutrient Management on Yield of Chickpea (JG 12) in Rice-Chickpea cropping system	10000	Rabi 2023	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction
5	Cattle	Animal Nutrition Management	Supplementing mineral supplement in cattle with free choice mineralised salt lick	5000	Kharif 2023 (round the year)	10	10	
6	Poultry	Poultry Management	Demonstration on rearing of Kadaknath breed of chicken under backyard system	15000	Rabi 2023	10	10	Body wt. at 16 week age, Income generation
7	Goat	Animal Nutrition Management	Demonstration of concentrate and mineral mixture supplementation in goat feeding	12000	Rabi 2023 (Round the year)	10	10	Body wt. at 9 month of age
8	Vegetables	Nutritional	Demonstration	3000.00	Round	10	10	Per capita

		Security	of backyard nutritional kitchen garden		the year, 2023			Consumption gm/ day, Energy (kcal), Protein (gm), Iron (mg), Calcium (mg),
9	Kodo millet	Income Generation	Demonstration of income generation through processing and value addition of minor millets	3000.0	Rabi, 2023	10	10	Total Production, Total Expenditure, Grass Income, Net Income, B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	Oct., Dec., Feb., and March	120
2	Farmers Training	20	August., Nov., Dec., and Jan	500
3	Media coverage	10	August., Nov., Dec., and Jan	Mass
4	Training for extension functionaries	2	Dec., and Jan	50

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Niger	INM and IPM	Improved seed, seed treatment, line sowing, spray of weedicide & insecticide	13375	Kharif 2023	20	50	Yield q/ha, B:C Ratio,
2	Pigeonpea	INM and IPM	Improved variety, Rajeshwari, Line Sowing, Seed Treatment with Tricoderma viridi + PSB+ Rizobium for pigeonpea	47500	Kharif 2023	20	50	Yield q/ha, B:C Ratio,
3	Chickpea	INM and IPM	Improved seed, seed treatment with Biofertilizers, line sowing, spray of weedicide & insecticide		Rabi 2023	30	75	Yield q/ha, B:C Ratio,
4	Mustard	INM and IPM	Improved seed, seed treatment with Biofertilizers, line sowing, spray of weedicide & insecticide	18000	Rabi 2023	30	75	Yield q/ha, B:C Ratio,
5	Greengram	INM and IPM	Improved seed, seed treatment with Biofertilizers, line sowing, spray of weedicide & insecticide		Summer 2023	20	50	Yield q/ha, B:C Ratio,

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	Oct., Dec., Feb., and March	120
2	Farmers Training	4	August., Nov., Dec., and Jan	120
3	Media coverage	4	August., Nov., Dec., and Jan	Mass
4	Training for extension functionaries	2	Dec., and Jan	50

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Integrated Farming	1	1	6	2	8	9	8	17	25
Water management	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0
Total									
b) Fruits									
Management of young plants/orchards	0	0	0	0	0	0	0	0	0
Total									
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology	0	0	0	0	0	0	0	0	0
Total									
g) Medicinal and Aromatic Plants									
Production and management technology	0	0	0	0	0	0	0	0	0
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	1	1	6	2	8	9	8	17	25
Soil and Water Conservation	1	1	6	2	8	9	8	17	25
Integrated Nutrient Management	2	1	12	4	16	18	16	34	50
Production and use of organic inputs	1	1	6	2	8	9	8	17	25
Management of Problematic soils	1	1	6	2	8	9	8	17	25
Micro nutrient	1	1	6	2	8	9	8	17	25

[illegible]

B) OFF Campus

[illegible]

Nursery raising									
Export potential vegetables	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0
b) Fruits									
Cultivation of Fruit	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	1	1	6	2	8	9	8	17	25
Soil and Water Conservation	1	1	6	2	8	9	8	17	25
Integrated Nutrient Management	2	1	12	4	16	18	16	34	50
Production and use of organic inputs	1	1	6	2	8	9	8	17	25
Management of Problematic soils	1	1	6	2	8	9	8	17	25
Micro nutrient deficiency in crops	1	1	6	2	8	9	8	17	25
Nutrient Use Efficiency	1	1	6	2	8	9	8	17	25
Soil and Water Testing	2	1	12	4	16	18	16	34	50
IV Livestock Production and Management									
Dairy Management	2	1	12	4	16	18	16	34	50
Poultry Management	2	1	12	4	16	18	16	34	50
Disease Management	2	1	12	4	16	18	16	34	50
Feed management	2	1	12	4	16	18	16	34	50
Production of quality animal products	2	1	12	4	16	18	16	34	50
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	1	6	2	8	9	8	17	25
Design and development of low/minimum cost diet	1	1	6	2	8	9	8	17	25
Designing and development for high nutrient efficiency diet	1	1	6	2	8	9	8	17	25
Minimization of nutrient loss in processing	1	1	6	2	8	9	8	17	25

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Horticulture										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Livestock production										
Goat production and management	1	Goat production and management	1	6	2	8	9	8	17	25
Importance of round the year fodder production for dairy animals	1	Importance of round the year fodder production for dairy animals	1	6	2	8	9	8	17	25
Importance of feeding balanced ration to livestock	1	Importance of feeding balanced ration to livestock	1	6	2	8	9	8	17	25
Vaccination and deworming in livestock	1	Vaccination and deworming in livestock	1	6	2	8	9	8	17	25
Important disease of Livestock and their prevention	1	Important disease of Livestock and their prevention	1	6	2	8	9	8	17	25
Azolla- Alternative fodder production for animals	1	Azolla- Alternative fodder production for animals	1	6	2	8	9	8	17	25
Poultry management in winter and summer	1	Poultry management in winter and summer	1	6	2	8	9	8	17	25
Use of ITK in Livestock	1	Use of ITK in Livestock	1	6	2	8	9	8	17	25
Economical balanced feeding in	1	Economical balanced feeding in	1	6	2	8	9	8	17	25

dairy buffaloes and cows		dairy buffaloes and cows								
A.I and breed up gradation on nondescript cattle and buffalo	1	A.I and breed up gradation on nondescript cattle and buffalo	1	6	2	8	9	8	17	25
Home Science										
Training of SHG women	1	Training of SHG women	1	6	2	8	9	8	17	25
Food preservation methods for nutritional security	1	Food preservation methods for nutritional security	1	6	2	8	9	8	17	25
Millets processing and its importance in daily diet	1	Millets processing and its importance in daily diet	1	6	2	8	9	8	17	25
Household nutritional security by Kitchen Garden	1	Household nutritional security by Kitchen Garden	1	6	2	8	9	8	17	25
Training of farm women on Design and development for High Nutrient efficient diet	1	Training of farm women on Design and development for High Nutrient efficient diet	1	6	2	8	9	8	17	25
Training on NKG	1	Training on NKG	1	6	2	8	9	8	17	25
Training on processing and value addition of mahua flower	1	Training on processing and value addition of mahua flower	1	6	2	8	9	8	17	25
Training on Processing and preservation of fruits	1	Training on Processing and preservation of fruits	1	6	2	8	9	8	17	25
Training of anganwadi worker	1	Training of anganwadi worker	1	6	2	8	9	8	17	25
Training on income	1	Training on income	1	6	2	8	9	8	17	25

generation through value addition of millets		generation through value addition of millets								
Plant Protection										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Agriculture Extension (Capacity Building and Group Dynamics)										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Soil Science										
Importance of organic manure in Soil health Management	1	Importance of organic manure in Soil health Management	1	6	2	8	9	8	17	25
Integrated Nutrient Management in field crops	1	Integrated Nutrient Management in field crops	1	6	2	8	9	8	17	25
Role and Importance of Biofertilizer in crop production	1	Role and Importance of Biofertilizer in crop production	1	6	2	8	9	8	17	25
Use and Importance of micro nutrients in crop production	1	Use and Importance of micro nutrients in crop production	1	6	2	8	9	8	17	25
Natural Farming	1	Natural Farming	1	6	2	8	9	8	17	25
Multiplication of waste decomposer and its Use and importance	1	Multiplication of waste decomposer and its Use and importance	1	6	2	8	9	8	17	25
Problematic soils Management and soil and Water Conservation	1	Problematic soils Management and soil and Water Conservation	1	6	2	8	9	8	17	25
Soil Sampling, Soil testing and importance of SHC	1	Soil Sampling, Soil testing and importance of SHC	1	6	2	8	9	8	17	25

Importance of Green Manure	1	Importance of Green Manure	1	6	2	8	9	8	17	25
Importance of Soil Health Card in Crop production	1	Importance of Soil Health Card in Crop production	1	6	2	8	9	8	17	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Horticulture										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Livestock production										
Backyard poultry farming	1	Backyard poultry farming	1	6	2	8	9	8	17	25
Goat management in rainy season	1	Goat management in rainy season	1	6	2	8	9	8	17	25
Round the year fodder production for dairy animals	1	Round the year fodder production for dairy animals	1	6	2	8	9	8	17	25
Importance of stall feeding and balanced ration to livestock	1	Importance of stall feeding and balanced ration to livestock	1	6	2	8	9	8	17	25
Vaccination and deworming in livestock	1	Vaccination and deworming in livestock	1	6	2	8	9	8	17	25
Important disease of Livestock and their prevention	1	Important disease of Livestock and their prevention	1	6	2	8	9	8	17	25
Azolla- Alternative fodder production for animals	1	Azolla- Alternative fodder production for animals	1	6	2	8	9	8	17	25
Poultry management	1	Poultry management	1	6	2	8	9	8	17	25

in winter and summer		in winter and summer								
Use of ITK in Livestock	1	Use of ITK in Livestock	1	6	2	8	9	8	17	25
Economical balanced feeding in dairy buffaloes and cows	1	Economical balanced feeding in dairy buffaloes and cows	1	6	2	8	9	8	17	25
Home Science										
Training on NKG	1	Training on NKG	1	6	2	8	9	8	17	25
Training on nutritional benefit of drumstick	1	Training on nutritional benefit of drumstick	1	6	2	8	9	8	17	25
Training on importance of cleanliness and sanitation for healthy living	1	Training on importance of cleanliness and sanitation for healthy living	1	6	2	8	9	8	17	25
Role and importance of NKG for balanced diet in rural households	1	Role and importance of NKG for balanced diet in rural households	1	6	2	8	9	8	17	25
Nutritive importance of minor millets	1	Nutritive importance of minor millets	1	6	2	8	9	8	17	25
Training on Importance of balance diet for healthy living	1	Training on Importance of balance diet for healthy living	1	6	2	8	9	8	17	25
Training on Processing and preservation of fruits	1	Training on Processing and preservation of fruits	1	6	2	8	9	8	17	25
Training on nutritional benefit of drumstick	1	Training on nutritional benefit of drumstick	1	6	2	8	9	8	17	25
Training on NKG	1	Training on NKG	1	6	2	8	9	8	17	25
Training on income generation through value	1	Training on income generation through value	1	6	2	8	9	8	17	25

addition of millets		addition of millets								
Plant Protection										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Agriculture Extension (Capacity Building and Group Dynamics)										
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Soil Science										
Use and Importance of Balance use of fertilizer	1	Use and Importance of Balance use of fertilizer	1	6	2	8	9	8	17	25
Importance of Organic Farming	1	Importance of Organic Farming	1	6	2	8	9	8	17	25
Role and Importance of liquid Biofertilizer in crop production	1	Role and Importance of liquid Biofertilizer in crop production	1	6	2	8	9	8	17	25
Importance of Sulphur in oil seed crop production	1	Importance of Sulphur in oil seed crop production	1	6	2	8	9	8	17	25
Use and Importance of fertigation	1	Use and Importance of fertigation	1	6	2	8	9	8	17	25
Importance of organic manure in Soil health Management	1	Importance of organic manure in Soil health Management	1	6	2	8	9	8	17	25
Integrated Nutrient Management in field crops	1	Integrated Nutrient Management in field crops	1	6	2	8	9	8	17	25
Role and Importance of Biofertilizer in crop production	1	Role and Importance of Biofertilizer in crop production	1	6	2	8	9	8	17	25
Use and Importance of micro nutrients in crop production	1	Use and Importance of micro nutrients in crop production	1	6	2	8	9	8	17	25
Natural	1	Natural	1	6	2	8	9	8	17	25

Farming		Farming								

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	160	160	320	5	5	10	165	165	330
Kisan Mela	4	250	800	1050	20	10	30	270	810	1080
Kisan Ghosthi	24	90	160	250	5	5	10	95	165	260
Exhibition	6	3000	1800	4800	100	100	200	3100	1900	5000
Film Show	20	400	320	720	40	40	80	440	360	800
Method Demonstrations	10	100	140	240	5	5	10	105	145	250
Farmers Seminar	2	100	90	190	5	5	10	105	95	200
Workshop	4	200	160	360	5	5	10	205	165	370
Group meetings	10	180	60	240	5	5	10	185	65	250
Lectures delivered as resource persons	20	6000	3800	9800	100	100	200	6100	3900	10000
Newspaper coverage	35	60000	39900	99900	50	50	100	60050	39950	100000
Radio talks	0	60000	39900	99900	50	50	100	60050	39950	100000
TV talks	1	60000	39900	99900	50	50	100	60050	39950	100000
Popular articles	12	60000	39900	99900	50	50	100	60050	39950	100000
Extension Literature	10	6000	3800	9800	100	100	200	6100	3900	10000
Advisory Services	48	160	160	320	5	5	10	165	165	330
Scientific visit to farmers field	40	90	160	250	5	5	10	95	165	260
Farmers visit to KVK	10	160	160	320	5	5	10	165	165	330
Diagnostic visits	24	160	160	320	5	5	10	165	165	330
Exposure visits	10	160	160	320	5	5	10	165	165	330

Ex-trainees Sammelan	2	50	45	95	3	2	5	53	47	100
Soil health Camp	2	50	45	95	3	2	5	53	47	100
Animal Health Camp	2	50	45	95	3	2	5	53	47	100
Agri mobile clinic	2	50	45	95	3	2	5	53	47	100
Soil test campaigns	2	50	45	95	3	2	5	53	47	100
Farm Science Club Conveners meet	2	50	45	95	3	2	5	53	47	100
Self Help Group Conveners meetings	2	50	45	95	3	2	5	53	47	100
Mahila Mandals Conveners meetings	2	50	45	95	3	2	5	53	47	100
Celebration of important days (specify)	10	180	60	240	5	5	10	185	65	250
Others (pl. specify)	1	50	45	95	3	2	5	53	47	100
Total		257840	172155	429995	647	628	1275	258487	172783	431270

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
OILSEEDS	-	-	-
PULSES	-	-	-
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Lime	Kagzi	200 plants
	Mango	Dasehri	100
	Papaya	Pusa nanha	100
SPICES			
VEGETABLES	Tomato,	Tomato-NS815,	1000 plants
	chilli	Chilli- K2	1000
	Brinjal	Brinjal- Biground	1000
	Drumsticks	PKM1	500
FOREST SPECIES			
ORNAMENTAL CROPS	Marigold	Pusadip, pusa bahar	
	Sevanti	Sevanti	200
PLANTATION CROPS	Neem		200
	Karanj		100
Others (specify)			500

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-

3				
BIOFERTILIZERS				
1	Vermicompost	-	200q	20000
2	NADEP	-	-	-
3				
BIO PESTICIDES				
1	Dasparni ark			500lit
2	Pesticides			500lit
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Indigeneous	Gir cross, sahiwal cross	15	-
SHEEP AND GOAT	Indigeneous	jamunapari	8	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	Rabbit	White Giant	12	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
Jan-march 2023	Jan-march 2023	1000
April-june 2023	April-june 2023	1000
July-Sep. 2023	July-Sep. 2023	1000
Oct.-Dec. 2023	Oct.-Dec. 2023	1000

Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD (Film)	KVK activities	1000
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	Training program on Vermicompost production for income generation
3	In-service personnel	

4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Dungariya	Mandla	20
2	Khuksar	Mandla	22
3	Babalia	Niwas	45

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: **No established lab**

List of equipment's purchased: **all equipment's**

Sl. No.	Name of the Equipment	Qty.	Condition
1	all equipment's for lab establishment		
2			

Details of samples analyzed so far: Soil lab mini kit (Mrida Parikshak)

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	15	300000.00
Water Samples	0	0	0	
Total	1000	1000	15	300000.00

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture Dep.	Convergence Program
ATMA	Convergence Program
Horticulture Dep.	Convergence Program
Animal Husbandry Dep.	Convergence Program
Silkworm Dep.	Convergence Program
Agriculture Engineering Dep.	Convergence Program
WCD	Convergence Program
NABARD	Convergence Program
Suchna Evam Prasar Mantralay Bharat sarkar, Mandla	Convergence Program
Reliance foundation (NGO)	Convergence Program
ASA (NGO)	Convergence Program
SARADA (NGO)	Convergence Program
FES (NGO)	Convergence Program
CARD Sanstha	Convergence Program
Watershed	Convergence Program

FPOs	Convergence Program
Jilapanchayat	Action plan under Aspirational Blok's

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No: Yes

Name of Programme	Nature of linkage
Trainings	Convergence program
Sanghosthi	Convergence program
Workshop	Convergence program
Group Meetings	Convergence program
Prakshetra Pathshala	Convergence program
Diagnostic Field Visit	Convergence program
Exhibition	Convergence program
Mela	Convergence program

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Trainings	Convergence program
Sanghosthi	Convergence program
Workshop	Convergence program
Group Meetings	Convergence program
Prakshetra Pathshala	Convergence program
Diagnostic Field Visit	Convergence program
Exhibition	Convergence program
Mela	Convergence program

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes under Natural Farming

Month	Activities	Targeted Beneficiaries/Area/Coverage	Targeted Area/Coverage
Jan	Trainings, Awareness Program, Method demonstration	150	-
Feb	Awareness Program: Exposer visit	150	-
March	Awareness Program: Exposer visit	150	-
April	Awareness Program: Krishak Sanghosthi	150	-
May	Awareness Program: Krishak Sanghosthi	150	-
June	Awareness Program: Method demonstration	150	-
July	Trainings, Awareness Program: Exposer visit	150	-
August	Trainings, Demonstrations, Exposer visit	150	-
Sep.	Awareness Program: Exposer visit	150	-
Oct.	Awareness Program: Method demonstration	150	-
Nov.	Awareness Program: Krishak Sanghosthi	150	-
Dec.	Trainings, Awareness Program	150	-

Proposed Activities under Natural Farming

S.No	Items/Activities	No. of Activities	No. of Beneficiaries
1	Trainings	4	100
2	Awareness Programs (Sanghosthi, Exposure visit, Method Demonstration)	15	450
3	Kisan Mela (Exhibition)	02	1000
4	Demonstration	08	08

ACTIVITIES TO BE CONDUCTED DURING INTERNATIONAL YEAR OF MILLETS 2023

Activity	Month	Details	Expected No of participants/ beneficiaries
Awareness Programme	January	Production technology of millets	25
Training	February	Nutritional importance of millets	25
Training	March	Processing of millets	25
Training	April	Value added products of kodo millets	25
Training	May	Nutritional and health benefits of Millets	25
Training	June	Value added products of millets	25
Training	July	Packaging of food products prepared from millets	25
Training	August	Branding and licensing of millets products	25
Awareness Programme	September	Processing and marketing of millets	25
Training	October	Processing and value addition of millets	25
Training	November	Processing and value addition of millets	25
Training	December	Value added products of millets	25

Proposed TSP Pulses (2023)

Season	Crop /variety	Target Area ha.	Achieved Area ha	No. of demo.	Average yied q/ha	
					Demo	LC

Kharif 2023	Pigeonpea (BDN716)	20		50		
Rabi 2023	Chickpea (JG 36)	20		50		
Summer 2024	Greengram	20		50		

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	JRB1, PS-1,PS-5, Tarori Basmati, IR-64, IR-36, JR -201, Mahamaya, JRH-8, JRH-5 MTU-1010, MTU 1081, Bamleshwari, Shamleshwari,	No protected area/ no fencing	1500
Pigeonpea	Kharif	Rajeshwari, TJT-501		1000
Kodo		JK 48, JK 439, JK 41, JK 62		0.25
Kutki		Jwahr Kutki 1, Jwahr Kutki 2		0.25
Niger	Kharif	JNS 28, JNC-1, JNC-9,		1000
Wheat	Rabi	Wheat-HI-8498, GW-273, JW -2004, JW -3173, JW-3020, JW-3269,JW -3211, JW-17, Sujata, GW-366, GW-322, MP 1202, MP 1203, DBW-110, HD-2864, LOK-1, JW-3382, HI-1544, HD-2932, HD-2967, HI-1531		1000
Gram	Rabi	JG-226, JG-218, JG-130,JG-315,JG-11, JG-74, JGG-1, JG-12, JG-14, RVG-203,RVG-202,JG-63, JG-16, JAKI-9218		1000
Linseed	Rabi	JL-27, JL-9, PKDL-41, Finger millet JK-39, JK-439,		500
Lentil	Rabi			500
Mustard	Rabi	RH 0750, RH RH725, JM-2,Pusa –Agrani, Arpan, Urwasi, JM-3, RP-09, Laxmi, Bharat-1, Pusa Tarak, RVM-2, Pusa Jaikisan,		1000
Greengram	Summer	Ganga-8, JM- 721, TN-99-37, Samrat		500

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy Unit	Gir, sahiwal, frieswal breeds	100	Dung, Urine, Milk
Goat unit	Jamunapari	10	Manure
Poultry	kadakhnath, guinea fowl	10	-
Natural Farming	Beejamrut, Jeewamrut, Ghanjeewamrut, Neemastra, Bahammastra, Agniastra, Dasparni Ark, Panchgavya, Fafoondnashak	200	Used in crop cafeteria in 5 acre
Organic Farming	Compost, Vermicompost, Vermivash, Waste Decomposer	200	Used in crop cafeteria
Fodder unit	Napiar/ berseem	500	Green fodder
Mushroom Spawn Unit	Oyster Mushroom Spawn	50	Spawn
Mushroom Unit	Oyster Mushroom	50	-
Azolla unit	Azolla aquatic fern	5	Azolla as fodder

Roof Water harvesting unit	Soil Water Recharge	5	-
Biogas unit	Biogas	5	-
Roof Gardening	Vegetables	50	-
Poshan Vatika	Kitchen garden seed minikit (IIVR/NHRDF)	50	Green vegetable
Nursery	Mango, Lemon, Karaj, Neem,	50	Nursery of plant
Guava Orchid	Guava	200	-
Drumstick orchid	Drumstick	100	-

ANNUAL ACTION PLAN 2023

KVK - Narsinghpur

Year of sanction: 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr Vishal Meshram	07792-294535	9424735273	kvknarsinghpur@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr Vishal Meshram	Senior Scientist & Head	Extension Education	147900	31.01.2007 (PC on 01.02.2019)	14.10.2022	9424735273	vishalmdl1978@gmail.com	
2	Subject Matter Specialist	Dr. Aashutosh Sharma	Scientist	Agro Forestry	110400	25-01-2007		9425158722	aashutosh.sharma07@gmail.com	
3	Subject Matter Specialist	Dr. Prashant Shrivastava	Scientist	Agriculture Engineering	107200	24-01-2007		9424958892	sprash22@gmail.com	
4	Subject Matter Specialist	Dr.S.R.Sharma	Scientist	Plant Protection	110400	13-02-2007		9977244254	srsharma_srsqkp@rediffmail.com	
5	Subject Matter Specialist	Dr. Abha Mishra	Scientist	Plant Protection	89800	21-10-2011		7879920977	skpyasi@gmail.com	
6	Subject Matter Specialist	Smt. Nidhi Verma	Scientist	Agronomy	66800	01-09-2017		7879626764	nitv.verma02@gmail.com	
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Dr Pooja Chaturvedi	Programme Assistant	Home Science	46700	29-01-2019		9300935650	drpoojachaturvedi0@gmail.com	
9	Computer Programmer / Programme Assistant	Smt. Rajni Prabha Kori	Programme Assistant	Computer Application	66500	04-04-2008		8889487831	prabha.kvk@gmail.com	
10	Farm Manager	Shri Vijay Singh Suryawanshi	Programme Assistant	Agronomy	59100	14-10-2011		9755925530	vssuryawanshi11@gmail.com	

1.3 Total land with KVK (in ha): 20

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2	Under Demonstration Units	1.0
3	Under Crops	15.0
4	Orchard/Agro-forestry	1.0
5	Others (specify)	2.0
Total		20

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2008	505	4200000			
2	Farmers Hostel	ICAR	2010	300	3000000			
3	Staff Quarters (6)	ICAR	2011	202	2200000			
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor	ICAR	2009	200	50000			
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	2010	42000	37277/ meter off	Not Running
Bolero(Jeep)	2017	607856	82308	Running
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2019	44999	working
Xerox Machine	2016	74025	Not working
Generator	Nil		
Video Camera	Nil		
Computer, Laser Printer	2016	38766	
UPS 600 VA	2022	10500	working
Stabilizer 2 KVA	Nil		
Stabilizer	Nil		
Inverter 600 VA (2)	Nil		
Inverter Battery (2)	Nil		

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	02.07.2023
2	05.02.2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	
2	AES – 2	
3	AES – 3	

4		
5		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	
Forest	
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	
Kharif	
Rabi	
Zaid	
Cropping Intensity	

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	
2	Well	
3	Tube well	
4	Ponds	
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1			
2			
3			
4			

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Soybean	10100		9
2	Arhar	32800		18.8
3	Rice	83000		44
4	Maize	39800		31
5	Gram	84800		18.5
6	Wheat	119500		42.6
7	Lentil	33300		13.4
8	Sugar cane	70000		89
9	Summer Moong	124950		16.15

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	10.8	24	11
Feb, 22	15	28	14
Mar, 22	18.4	33	18
Apr, 22	5.2	38	23
May, 22	8.9	41	27
Jun, 22	124.8	37	27
July, 2022	244.9	31	25
Aug., 2022	220.7	30	24
Sept., 2022	142.7	32	24
Oct. 2022	25.5	32	20
Nov. 2022	7.7	29	15
Dec. 2022	5.7	26	12

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			

Details of Operational area / Villages (2022)

Priority / Thrust areas

TECHNICAL PROGRAMME

B. Abstract of interventions to be undertaken

Technologies to be assessed

[illegible]

TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Paddy (JR -206)	
Title of on farm trial	Assessment of Nemastra and Bramhastra against brown plant hopper with improved variety of Paddy (JR 206) under rice chickpea cropping system	
Problem diagnosed	Low yields of rice due to use of High seed rate, long duration varieties and imbalance use of pesticides	
Farmers' Practices	Farmers practice (Kranti 135days) + spraying of chloropyriphos	
Details of technologies selected for assessment	T1	Improved vartiety JR 206+ neemastra 6%
	T2	Improved vartiety JR 206+ bramastra 3%
Source of technology		
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Rs 22000/ha	
Critical input	Seed of Rice	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of effective tillers/hills, Grain/Panicles, yield q/ha, B : C ratio Organic carbon %,Microbes population	

OFT-2

Crop / Enterprise	Paddy (JR -206)	
Title of on farm trial	Assessment of Natural forming components in rice production under rice – wheat- green gram cropping system	
Problem diagnosed	Low yields of rice due to use of High seed rate, long duration varieties and imbalance use of fertilizer	
Farmers' Practices	Farmers practice (Kranti 135days) +imidachloprid @ 150 ml/ha	
Details of technologies selected for assessment	T1	Improved Variety JR 206 treated with beejamitra, +Ganjivamrit 1 ton/ha+Jivamrit 500 lit/ha
	T2	Improved Variety JR 206 +three time @ 6%+Neemastra 6%+Saptparni 3% Mulching between the row 3-4 ton/ha
Source of technology		
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Rs 22000-25000/ha	
Critical input	Seed of Rice	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No of effective tillers/hills, Grain/Panicles, yield q/ha, B : C ratio Organic carbon %,Microbes population	

OFT-3

Crop / Enterprise	Paddy (JR -81)	
Title of on farm trial	Assessment of Green Manuring with improved variety of Paddy (JR 81) under rice – wheat cropping system	
Problem diagnosed	Low yields of rice due to use of High seed rate, long duration varieties and imbalance use of fertilizer	
Farmers' Practices	Farmers practice (Kranti 135days)	
Details of technologies selected for assessment	T1	Improved Variety JR 81(110days) +Susbeniya
	T2	Improved Variety JR 206+ Green manuring (Sun hemp)
Source of technology	JNKVV,2018	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Rs 22000-25000/ha	
Critical input	Seed of Rice and Sunhamp ,susbeniya	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No of effective tillers/hills, Grain/Panicles, yield q/ha, B : C ratio Organic carbon %,	

OFT-4

Crop / Enterprise	Pigeon Pea	
Title of on farm trial	Assessment of improved variety of Pigeonpea (BDN 716) and Organic manure under Pigeonpea-wheat cropping system	
Problem diagnosed	Problem of wilt and sterility mosaic in old varieties	
Farmers' Practices	Used Old Variety TJT – 501	
Details of technologies selected for assessment	T1	Improved variety BDN 716 + seed treatment with Rhizobium, PSB, Trichoderma
	T2	Improved variety BDN 716 + Organic manure (FYM/ Vermicompost (2t/ha)
Source of technology	IGKVV, Raipur(2016))	
Plot size	0.4ha	
No. of farmers	5	
Total cost	Rs 19000-22000/ha	
Critical input	Seed and Culture	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of Branches/plant, Pods/plant , yield q/ha and B : C ratio	

OFT-5

Crop / Enterprise	Pigeon pea	
Title of on farm trial	Assessment of Bio control agent, trichoderma and Pseudomonas against wilt disease of Pigeonpea	
Problem diagnosed	Wilt disease of Pigeonpea	
Farmers' Practices	No use of bio-control agent for seed and soil treatment	
Details of technologies selectedfor assessment	T1	Use of Trichoderma for seed treatment@5g/kg and soil treatment@5kg/ha with FYM
	T2	Use of Pseudomonas for seed treatment@5g/kg and soil treatment@5kg/ha
Source of technology	GBPUAT, 2019	
Plot size	0.4ha	
No. of farmers	5	
Total cost	Rs 18000-21000/ha	
Critical input	To provide Bio control agent such as Trichoderma and Pseudomonas for seed and soil treatment	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Disease Incidence (%), Yield q/ha, B: C ratio	

OFT-6

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of IPM Practices against sucking pest in Soybean	
Problem diagnosed	White fly and Yellow mosaic	
Farmers' Practices	High seed rate with sowing at 30 CM line to line distance	
Details of technologies selected for assessment	T1	Seed treatment with imidachloprid @ 3ml/kg seed + roughing, use of yellow sticking traps + spraying of Thiamethoxam
	T2	Seed treatment with Verticillium lecanii and spray thrice at 15 days interval @ 1 lit/ha
Source of technology	JNKVV 2018	
Plot size	0.4ha	
No. of farmers	5	
Total cost	Rs 21000-23000/ha	
Critical input	To provide imidachloprid, Thiamethoxam and Verticillium lecanii	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Pest infestation, No of pots/ plant, Yield q/ha, B: C ratio	

OFT-7

Crop / Enterprise	lemon	
Title of on farm trial	Introduction of Lamon Lime with minimum irrigation.	
Problem diagnosed	No availability of good lemon variety	
Farmers' Practices	Lemon -Fallow system	
Details of technologies selected for assessment	T1	Lamon Lime with minimum irrigation
	T2	
Source of technology	JNKVV 2013	
Plot size	0.1ha	
No. of farmers	5	
Total cost	Rs 40000/ha	
Critical input	To provide lemon Variety (Kagji) plants	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Survival (%) , yield of intercrop and B: C ratio	

OFT-8

Crop / Enterprise	khamer plantation	
Title of on farm trial	Assessment of khamer plantation under restricted irrigation	
Problem diagnosed	Low return from marginal land due to unused of intercropping	
Farmers' Practices	No intercropping between plant space	
Details of technologies selected for assessment	T1	khamer plantation under restricted irrigation
	T2	
Source of technology	JNKVV 2017	
Plot size	0.4ha	
No. of farmers	5	
Total cost	Rs 40000/ha	
Critical input	To provide Khamer plants	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Survival (%) of plants and yield of intercrop , B: C ratio	

OFT-9

Crop / Enterprise	Bamboo	
Title of on farm trial	Assessment of Bamboo Variety Balcova	
Problem diagnosed	Unavailability of Bamboo	
Farmers' Practices	No plantation	
Details of technologies selected for assessment	T1	Bamboo balcova variety
	T2	
Source of technology	IGFRI 2015	
Plot size	0.4ha	
No. of farmers	5	
Total cost	Rs 41300/ha	
Critical input	To provide Bamboo Var. Balcova Plants	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Survival (%) of plants and yield of intercrop , B: C ratio	

OFT-10

Crop / Enterprise	Passion fruit	
Title of on farm trial	Assessment of Passion fruit Variety Kaveri in Multi-storey cropping system	
Problem diagnosed	No multi-storey cropping fruits in agriculture based cropping systems	
Farmers' Practices	Vegetable cultivation	
Details of technologies selected for assessment	T1	Improve Variety Kaveri
	T2	
Source of technology	IIHR Bangalore 2018	
Plot size	0.1ha	
No. of farmers	5	
Total cost	Rs 38500/ha	
Critical input	To provide Passion fruit Variety Kaveri Plants	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Survival (%) of plants, Yield (q/ha) and B: C ratio	

OFT-11

Crop / Enterprise	Chili	
Title of on farm trial	Assessment of Neemastra and tobacco-soaked water for Control of sucking pest in chilli	
Problem diagnosed	sucking pest in chilli	
Farmers' Practices	Use of chloropyriphos	
Details of technologies selected for assessment	T1	Spraying of tobacco-soaked water (1: 10)
	T2	Spraying of Neemastra @ 20ml/lit water
Source of technology	ICAR 2020	
Plot size	0.4ha	
No. of farmers	5	
Total cost	Rs 10000/ha	
Critical input	To provide tobacco, Dung and urine of Cow , Leaf of Neem	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Pest infestation (%), Yield q/ha, B: C ratio	

OFT-12

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Nano urea in improve wheat variety JW 3382	
Problem diagnosed	Use of high dose of urea	
Farmers' Practices	Use of N:P: K @ 120:60:40	
Details of technologies selected for assessment	T1	Spraying of Nano urea @ 4ml/lit with 150 lit water@ 1 acre
	T2	
Source of technology	ICAR 2020	
Plot size	0.4ha	
No. of farmers	5	
Total cost	Rs 22000-25000/ha	
Critical input	To Provide Nano Urea and Seed wheat variety JW 3382	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of effective tillers/plant, yield (q/ha) and B:C ratio	

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ :
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	
Year/Season:	
Farming situation:	
Problem diagnosis:	
Thematic area:	
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	
No. of farmers/farm women involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demonstration	Parameters identified for performance evaluation
1	Wheat	IPM	Seed treated with beejamitra+use of ghanjivamitra 1000kg+jivamitra @ 500 lit/ha 3-4 times +Neemastra 6% twice at 25 and 35 days + Saptparni twice @ 5% at 10 days interval	Seed	Rabi 2023-24	2	5	Plant height at 20&40 days, No of effective tillers/hills, yield q/ha, B : C ratio
2	Paddy	CRP	Direct sowing of paddy by seed drill.	Seed + Culture	Kharif 2023	2.0	5	No of effective tillers/hills, Grain/Panicles, yield q/ha, B : C ratio
3	Soybean	CRP	Demonstrations on improved variety of Soybean (JS 20-116)		Kharif 2023	2.0	5	No of Braches/Plant, No of Pods/plant, yield q/ha and B: C ratio
4	Paddy	IPM	Seed treatment, roughing, Use of Brahamstra and Neematra	Brahamstra and Neematra	Kharif 2023	2.0	5	Pest infestation % , yield q/ha, B:C ratio
5	Pigeon pea	IDM	Soil & Seed Treatment with trichoderma, Distence of sowing, roughing, application of fungicide,	Trichoderma and Spray of Metalaxyl	Kharif 2023	2.0	5	No. of branches and pods /plant, disease incidence, yield, B: C ratio
6	Brinjal	IPM	Soil solarization of nursery bed, Siol treatment with Matarazium anasopli, Marry gold as intercrop, soil treatment with neem cake @ 5q/ha	Marry gold, Matarazium anasopli & Neem Cake	Rabi 2023-24	2	5	Nematode infestation% , yield q/ha and B:C ratio
7	Mango	Agro forestry	Demonstration on Mango variety Amrapali under Agri-horti system	Mango variety Amrapali	Kharif 2023	1.0	5	Survival % , yield q/ha, economics, farmers reaction
8	Guava	Agro forestry	Demonstration on Guava under Agri-horti system	Guava Plants	Kharif 2023	1.0	5	Survival % , yield q/ha and economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

[illegible]

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

1. On Campus

[illegible]

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

Livestock production

Home Science

Plant Protection

Agriculture Extension (Capacity Building and Group Dynamics)

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				

BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1			
2			
3			
4			
5			
6			
7			
8			

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM**a) Is ATMA implemented in your district**

Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production

ANNUAL ACTION PLAN 2023

KVK: Panna (M.P.)

Year of sanction: 2002

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. P. N. Tripathi	07732-250510	9617668660, 7828591217	kvkpanna@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. H. S. Rai (He has been retired on 31.01.2023)	Senior Scientist and Head	Entomology	37400-67000 + 9000 AGP (192900)	02.04.1988	12.07.2019	8839483274	hsrai1958@gmail.com	
2	Subject Matter Specialist	Dr. P. N. Tripathi	Senior Scientist and Head (I/c)	Soil Science and Agl. Chemistry	15600-39100 + 7000 AGP (87300)	07.06.2007	26.12.2020	9617668660 , 7828591217	tripathikvk19@gmail.com	
3	Subject Matter Specialist	Dr. Ritesh Kumar Jaiswal	Scientist	Plant Pathology	15600-39100 + 6000 AGP (89800)	13.10.2011	13.10.2011	8819824012	rkjaiswal037@gmail.com	
4	Subject Matter Specialist	Dr. Ranvijay Pratap Singh	Scientist	Horticulture	15600-39100 + 6000 AGP (66800)	18.08.2017	18.08.2017	9752824476	ranvijayparihar01@gmail.com	
5	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
8	Programme Assistant	Ritesh Bagora	Programme Assistant	Soil Science and Agl. Chemistry	9300-34800 + 4200 AGP (48100)	01.02.2019	01.02.2019	9753700119	riteshbagora@rediffmail.com	
9	Computer Programmer / Programme Assistant	Dr. Neha Sharma	Programme Assistant	Agl Extension Education	9300-34800 + 4200 AGP (42700)	30.01.2019	27.01.2021	9893746715		
10	Farm Manager	Vacant	-	-	-	-	-	-	-	-
11	Assistant	Sri H.H.S. Yadav	Asstt Grade II	Political Science	5200-20100 + 2800 AGP (43500)	08.08.2002	08.08.2002	9981041434		
12	Jr. Stenographer / Comp. Operator	Sri Deshraj Prajapati	Junior Stenographer-cum-Comp. Operator	Mathematics	5200-20200 + 2400 AGP (29400)	26.03.2018	26.03.2018	7697562198 , 9131629047	deshrajpanday6@gmail.com	
13	Driver	Vacant	-	-	-	-	-	-	-	-
14	Driver	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Vacant	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2	Under Demonstration Units	0.4
3	Under Crops	21
4	Orchard/Agro-forestry	0.4
5	Others (Specify)	-
Total		22.2

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building							
2	Farmers Hostel							
3	Staff Quarters (6)							
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm Godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle	2015-16	53412.00	42713 Km (31.12.2022)	Functional
Bolero(Jeep)	2016-17	736753.00	140510 Km (31.12.2022)	Functional
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Xerox Machine	2015-16	74025.00	Functional
Generator	-	-	-
Video Camera (1) Sony Handy Cam	2015-16	21033.00	Functional
(2) Sony Cyber Shot	2015-16	25992.00	Functional
Computer	2021-22	73000	Functional
1. Computer Note Book Intel Core i3	2011-12	39742.00	Non-Functional
2. Computer Note Book Intel Core i5	2011-12	46200.00	Non-Functional
3. Computer Note Book Intel Core i3	2015-16	45885.00	Functional
4. Desktop All In One 20 (HP)	2015-16	21419.00	Functional
5. Computer Note Book (HP)	2020-21	43990.00	Functional
6. Computer Note Book (HP)	2021-22	67000.00	Functional
Laser Printer			
1. Laser Printer HP 1020+	2011-12	12700.00	Non-Functional
2. Laser Printer HP 1020+	2015-16	15015.00	Functional
3. Laser Printer	2020-21	12500.00	Functional
UPS 600 VA	2016-17	6750.00	Functional
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	-	-	-
Inverter Battery (2)	-	-	-

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	05.07.2023
2	05.10.2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice-wheat
2	AES – 2	Blackgram-Chickpea
3	AES – 3	Sesame-Chickpea
4	AES – 4	Pigeonpea-Summer Greengram
5	AES – 5	Sesame-Mustard
6	AES – 6	Blackgram-Lentil-Summer Greengram

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Deep Black Soils:
2	AES – 2	Shallow Soils (Sandy Loam):
3	AES – 3	Shallow Soils (Red and Yellow):
4	AES – 4	Medium Deep Soils
5	AES – 5	
6	AES – 6	

AES-1 (name)

Strength	Weakness	Opportunities	Threats
☐ Use of natural/organic inputs with low inorganic inputs	☐ Low organic content in soil resulting in poor soil fertility	☐ Suitable for natural farming/organic farming	☐ Open Grazing

AES-2 (name)

Strength	Weakness	Opportunities	Threats
☐ Ample amount of forest and NTFS	☐ Low irrigation facility	☐ Suitable for forest products	☐ Severe problem of wild animals

AES-3 (name)

Strength	Weakness	Opportunities	Threats
☐ Biodiversity present in the district	☐ Poor water holding capacity of soil with severe to moderate soil erosion	☐ Suitable for medicinal and aromatic crops	☐

AES-4 (name)

Strength	Weakness	Opportunities	Threats
☐ Most of the crops are organically produced	☐ Most of the cattle breed is indigenous	☐ Production of diversified crops may be taken including tuber crops	☐

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	702.924
Forest	248.06
Waste Land	997.87 Sq. Km
Other than cultivated area	35.813
Cultivable waste and alkaline land	59.975
Pastures	11.113
Bushes	1.395
Current Fallow	19.742
Other Fallow	17.527
Agricultural Land	255.342
Area Sown	478.911
Kharif	224.290
Rabi	252.900
Zaid	1.721
Cropping Intensity (%)	188

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	7970
2	Well	40382
3	Tube well	5200
4	Ponds	3800
5	Others	26919

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Mixed red and Black soil	- Shallow (5-20 cm deep), - Gravelly, Light textured - low in clay content, - high water erosion losses - Deficiency of N, P, Zn, &S	556.012
2	Medium Black Soil	- Low infiltration - Imperfect drainage - Kharif crops experience both droughtness as well as temporary water stagnation	146.911

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1.	Paddy	128310	367610	2865
2.	Jowar and Bajra	3350	4429	1322
3.	Maize	840	1330	1584
4.	Kodo & Ragi	0	0	0
5.	Pigeonpea	6930	8593	1240
6.	Black gram	53820	29601	550
7.	Green gram	1430	808	565
8.	Soybean	950	1173	1235
9.	Sesame	28550	13704	480
10.	Groundnut	110	117	1067
11.	Wheat	128300	427240	3330
12.	Barley	1000	1720	1720
13.	Chick pea	86300	156200	1810
14.	Pea	1000	1520	1520
15.	Lentil	14500	14645	1010
16.	Mustard	21700	30380	1400
17.	Linseed	100	88	880

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (mm)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	0.0	28	6
Feb, 22	0.0	33	8
Mar, 22	0.0	41	13
Apr, 22	0.0	44	20
May, 22	0.0	45	22
Jun, 22	127.7	45	21
July, 2022	288.1	36	23
Aug., 2022	483.2	35	22
Sept., 2022	146.0	34	22
Oct. 2022	97.4	33	14
Nov. 2022	0.0	33	8
Dec. 2022	0.0	24	7

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	365515	273.42 MT.	0.74 kg/day
Buffalo	197896		kg
Sheep			
Crossbred/ Indigenous	10856	MT wool	kg
Goats	203125	MT	kg
Pigs Crossbred/ Indigenous	7337	-	-
Rabbits	-	-	-
Poultry			
Hens	53448	46.05 Lakh eggs	86 eggs/ bird/year
Turkey and others	-	-	-
Category	Area	Production	Productivity
Fish	3951.339 ha	5411.84 ton	20.86 Q/ ha

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Panna and Devendranagar	Panna	Gukhour, Tilaguwa, Sarangpur, Itwakhas, Janwar, Janakpur, Sildhara, Tara, Bhilsay, Kunjwan, Vikrampur, Ahirguwa, Ahirguwancamp, Umari, Bilkhura, Bilha, Palthara	Paddy, Blackgram, Sesame, Wheat, Chickpea, Lentil and Mustard	Cultivation of old varieties, No seed treatment, Imbalance fertilizer application, Incidence of diseases and insect pest infestation	Sustainable crop production through improved package of practices, Integrated pest and disease management, Diversification of agro-horticulture based multi-tier cropping system for enhancing income of farmers.
2	Ajaygarh	Ajaygarh	Champatpur, Majhgay, Kiratpur, Pratappur, Tarauni, Guchhara	Paddy, Sesame, Pigeonpea, Lentil and Linseed	Cultivation of old varieties, No seed treatment, Imbalance fertilizer application, Incidence of diseases and insect pest	Sustainable crop production through improved package of practices, Integrated pest and disease management,

					infestation	Diversification of agro-horticulture based multi-tier cropping system for enhancing income of farmers.
3	Gunour and Amanganj	Gunour	Magrailakhurd, Bamurahiya, Shyamardada, Paderi, Chhaparvara, Gaura, Jasvantpura, Dobha, Pasai, Vikrampur, Dwari, Sakatpura, Maheba, Siri, Gahdara	Paddy, Blackgram, Sesame, Chickpea, Wheat and Lentil	Cultivation of old varieties, No seed treatment, Imbalance fertilizer application, Incidence of diseases and insect pest infestation	Sustainable crop production through improved package of practices, Integrated pest and disease management, Diversification of agro-horticulture based multi-tier cropping system for enhancing income of farmers.
4	Pawai and Simaria	Pawai	Richhi, Khabri, Magardha	Paddy, Blackgram, Sesame, Chickpea, Wheat and Lentil	Cultivation of old varieties, No seed treatment, Imbalance fertilizer application, Incidence of diseases and insect pest infestation	Sustainable crop production through improved package of practices, Integrated pest and disease management, Diversification of agro-horticulture based multi-tier cropping system for enhancing income of farmers.
5	Shahnagar and Raipura	Shahnagar	Shahpur Khurd, Siharan, Bijakheda, Sijahati	Paddy, Pigeonpea, Wheat and Chickpea	Cultivation of old varieties, No seed treatment, Imbalance fertilizer application, Incidence of diseases and insect pest infestation	Sustainable crop production through improved package of practices, Integrated pest and disease management, Diversification of agro-horticulture based multi-tier cropping system for enhancing income of farmers.

Priority / Thrust areas

S. No.	Particulars
1.	Sustainable crop production through improved package of practices.
2.	Integrated pest and disease management.
3.	Breed improvement
4.	Soil water conservation and watershed management.
5.	Development and promotion of crop diversification and alternate land use system.
6.	west land development
7.	Empowerment of farm women and youth for improving livelihood through income generating activities and reduction in drudgery.
8.	Diversification of agro-horticulture based multi-tier cropping system for enhancing income of farmers.
9.	Increasing income form agriculture produce through production, processing, value addition and marketing.
10.	awareness about stray grazing
11.	increase in cropping intensity
12.	Introduction and popularization of high yielding location specific varieties.
13.	Cattle and Buffaloes breed improvement
14.	Feeding management
15.	Reproductive management
16.	Introduction of improve breed of poultry in back yard and semi intensive system
17.	calves management and Heifer management
18.	Goat management
19.	Alternate livelihood support system for marginal, landless labour and farmwomen through backyard poultry, goatry, mushroom etc.
20.	Alternate livelihood support along with alleviation of malnutrition problem.

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
13	65	21	410

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	1890	235	10410

Seed Production (Qtl.)	Planting material (Nos.)
350	46500

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterpr rise	Identified Problem	Interventions					
				Title of OFT	Title of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
1	Integrated Pest and Disease Management	Sesame	Low yield of sesame due to incidence of Phytophthora blight disease	Assessment of Integrated disease management of Rhizome Rot in Ginger	Demonstration on management of false smut disease of paddy	Management of Phytophthora blight disease of Sesame		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
2	Integrated Pest and Disease Management	Blackgram	Low yield of black gram due to high incidence of Cercospora Leaf spot disease	Assessment of Integrated disease management of Cercospora Leaf spot disease of Blackgram	Demonstration on management of Phytophthora blight disease of sesame	Management of Cercospora leaf spot disease in Blackgram		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
3	Integrated Pest and Disease Management	Onion	Low yield of onion due to incidence of Stemphylium disease	Assessment of Integrated approach for the management of Purple Blotch disease of Onion	Demonstration on management of Stemphylium blight disease of onion	Management of Stemphylium blight disease of onion	Package and Practices of Rabi Crops	Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
4	Integrated Pest and Disease Management	Chickpea	Low yield of chickpea due to incidence of collar rot disease	Assessment of Integrated approach for the management of Collar rot disease of Chickpea	Management Dry root rot disease of chick pea through soil and seed treatment with Trichoderma and Pseudomonas	Integrated approach for the management of diseases and insect pest of chickpea crop	Package and Practices of Kharif Crops	Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
5.	Sustainable crop production through improved package of practices	Turmeric	Low yield of turmeric due to No use of mulching.	Assessment of Paddy Straw Mulch on turmeric Rhizome Production	Demonstration of improved variety of Kharif onion (Bhima Super)	Production technology of Ginger & Turmeric		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
6.	Introduction and popularization of high yielding location specific varieties	Okra	Low yield due to use of open pollinated varieties of Okra	Assessment of Improved Variety of Okra (Kashi Shristi & Kashi Chaman) with integrated crop management	Demonstration of improved variety Cucumber (Nirali)	Improved production technology of Onion		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
7.	Introduction and popularization of high yielding location specific varieties	Tomato	Low yield of tomato due to high incidence of tomato diseases (Leaf curl and Late blight)	Assessment of high yielding tomato variety Arka Samrat and Arka Rakshak	Demonstration on improved variety of Garlic	Nursery Management in Vegetable Crops		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
8.	Introduction and popularization of high yielding location specific varieties	Marigold	Low yield of Flower due to use of old variety (Deshi Hajariya)	Assessment of Marigold Variety (Pusa Bahar & Tennis Ball) for its production and Income generation.	Demonstration on improved variety of Vegetable Pea (Kashi Nandini)	Improved Production Technology of Marigold		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
9.	Introduction and popularization of high yielding location specific varieties	Kodo	Low yield of Kodo due to use of traditional variety and no use of fertilizers	Assessment of improved variety of Kodo JK-137 with integrated crop management		Package and Practices of Kodo crop		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs

10.	Sustainable crop production through improved package of practices.	Soybean	Low yield of soybean due to no use of sulphur fertilizer	Assessment of Sulphur nutrient application on yield of soybean crop	Demonstration of INM in Blackgram (70% RDF @ 20:60:20 (STV based) + Seed treatment with Rhizobium @ 10 g/kg seed + Soil application of PSB @ 3 kg/ha + FYM 10 t/ha)	Biofertilizers and their importance in crop production		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
11.	Microbial based decomposition of waste materials		No use of decomposer for decomposition of biodegradable waste results delay in decomposition process	Assessment of bio decomposer for decomposition of biodegradable waste for rapid composting	Demonstration on INM in Sesame (70% RDF @ 30:60:20 (STV based) + Soil application of Azotobacter and PSB @ 3 kg/ha + FYM 10 t/ha)	Importance of Liquid fertilizer in crop production		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
12.	Sustainable crop production through improved package of practices.	Wheat	Low yield of wheat due to deficiency of Zinc element	Assessment of use of Zinc Sulphate as micronutrient source in wheat crop	Demonstration on INM in wheat (70% RDF @ 100:60:40 (STV based) + Soil application of Azotobacter and PSB @ 3 kg/ha + FYM 10 t/ha)	Fertilizer application on the basis of soil test values		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
13.	Natural Farming	Chickpea	Low yield of Chickpea due to less availability of plant nutrient	Assessment of Jivamrit and Ghanjivamrit in Chickpea crop	Demonstration of Seed treatment with Ammonium Molybdate@ 1 g/kg seed, Rhizobium@10 g/kg seed, soil application of PSB @ 3 kg/ha in Chickpea	Deficiency symptoms of plant nutrients		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs

Technologies assessed

A.1 Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Plant Protection	0	0	2	1	0	0	0	0	1	4
Horticulture	0	0	0	0	2	0	1	1	0	4
Soil Science	3	1	1	0	0	0	0	0	0	5
TOTAL	3	1	3	1	2	0	1	1	1	13

Abstract on the number of technologies assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Ginger	
Title of on farm trial	Assessment of Integrated disease management of Rhizome Rot in Ginger	
Problem diagnosed	Low yield of ginger due to high incidence of Rhizome Rot disease	
Farmers' Practices	No Rhizome and soil treatment and injudicious use of fungicides	
Details of technologies selected for assessment	T ₁	No Rhizome and soil treatment
	T ₂	Rhizome treatment at pre sowing stage with Metalaxyl + Mancozeb @ 0.2% + Soil treatment with <i>Trichoderma viride</i> @ 5 kg/ha mixed with 150 Kg FYM
	T ₃	T ₂ + 2-3 drenching with Metalaxyl + Mancozeb @ 0.25% at early onset of disease at 15 days interval
Source of technology	IISR, Kerala 2014	
Plot size	0.1 ha	
No. of farmers	5	
Total cost (Rs.)	6000	
Critical input	Metalaxyl + Mancozeb, <i>Trichoderma viride</i>	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	Disease incidence (%), Rhizome size and weight, Yield Q/ha, B:C ratio	

OFT-2

Crop / Enterprise	Blackgram	
Title of on farm trial	Assessment of Integrated disease management practices for the management of Cercospora Leaf spot disease of Blackgram	
Problem diagnosed	Low yield of black gram due to high incidence of Cercospora Leaf spot disease	
Farmers' Practices	No seed treatment and injudicious use of fungicides	
Details of technologies selected for assessment	T ₁	No seed treatment and injudicious use of fungicides
	T ₂	Seed treatment with Carboxin + Thiram @ 2 g/kg seed
	T ₃	T-2 + two foliar spray of Mancozeb @ 2.5 g/liter of water at 10-15 days interval at the onset of the disease
Source of technology	TNAU, Coimbatore 2014	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	5000	
Critical input	Carboxin +Thiram, Mancozeb	
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	Disease Incidence (%), No. Pods/Plant, Yield kg/ha, B:C ratio	

OFT-3

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Integrated approach for the management of Collar rot disease of Chickpea	
Problem diagnosed	Low yield of chickpea due to incidence of collar rot disease	
Farmers' Practices	No deep summer ploughing, No soil and seed treatment	
Details of technologies selected for assessment	T ₁	No deep summer ploughing, No soil and seed treatment
	T ₂	Deep summer ploughing, soil treatment with <i>Trichoderma</i> @ 2.5 kg/ha, seed treatment with <i>Trichoderma</i> @ 10 g/kg seed, avoid the use of undecomposed FYM, avoid high soil moisture at sowing and seedling stage
	T ₃	T ₂ + Soil drenching of <i>Pseudomonas fluorescence</i> @ 2.5 lit/ha at 25-30 DAS
Source of technology	NIPHM, Hyderabad 2015	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	6000	
Critical input	<i>Trichoderma</i> , <i>Pseudomonas fluorescence</i>	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	Disease Incidence (%), No. of Pods/plant, Yield kg/ha, B:C ratio

OFT-4

Crop / Enterprise	Onion						
Title of on farm trial	Assessment of Integrated approach for the management of Purple Blotch disease of Onion						
Problem diagnosed	Low yield of onion due to incidence of Purple Blotch disease						
Farmers' Practices	No seed and seedling treatment and injudicious use of fungicides						
Details of technologies selected for assessment	<table border="1"> <tr> <td>T₁</td><td>No seed and seedling treatment and injudicious use of fungicides</td></tr> <tr> <td>T₂</td><td>Seed treatment with <i>Trichoderma viride</i> @ 10 g/kg seed followed by seedling treatment with Mancozeb 64% WP + Metalaxyl 4% WP @ 3g/liter of water at the time of transplanting</td></tr> <tr> <td>T₃</td><td>T₂ + foliar spray of Mancozeb + Metalaxyl @ 2 g/liter of water at the interval of 15 days ha on the onset of disease appearance</td></tr> </table>	T ₁	No seed and seedling treatment and injudicious use of fungicides	T ₂	Seed treatment with <i>Trichoderma viride</i> @ 10 g/kg seed followed by seedling treatment with Mancozeb 64% WP + Metalaxyl 4% WP @ 3g/liter of water at the time of transplanting	T ₃	T ₂ + foliar spray of Mancozeb + Metalaxyl @ 2 g/liter of water at the interval of 15 days ha on the onset of disease appearance
T ₁	No seed and seedling treatment and injudicious use of fungicides						
T ₂	Seed treatment with <i>Trichoderma viride</i> @ 10 g/kg seed followed by seedling treatment with Mancozeb 64% WP + Metalaxyl 4% WP @ 3g/liter of water at the time of transplanting						
T ₃	T ₂ + foliar spray of Mancozeb + Metalaxyl @ 2 g/liter of water at the interval of 15 days ha on the onset of disease appearance						
Source of technology	NHRDF 2018-19						
Plot size	0.4 ha						
No. of farmers	5						
Total cost	6000						
Critical input	<i>Trichoderma</i> , <i>Pseudomonas fluorescence</i>						
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	Disease Incidence (%), Size of bulb, Yield kg/ha, B:C ratio						

OFT-5

Crop / Enterprise	Turmeric						
Title of on farm trial	Assessment of Paddy Straw Mulching on turmeric Rhizome Production						
Problem diagnosed	Low yield of turmeric due to No use of mulching						
Farmers' Practices	No use of mulching and Ghanjivamrit						
Details of technologies selected for assessment	<table border="1"> <tr> <td>T₁</td><td>No use of mulching and Ghanjivamrit</td></tr> <tr> <td>T₂</td><td>Use of Improved variety Roma with Paddy straw mulching @ 0.5 kg/m² along with Ghanjivamrit @ 250 kg/ha mixed with 250 kg FYM/ha</td></tr> <tr> <td>T₃</td><td>Use of Improved variety Roma with Paddy straw mulch @ 1kg/m² along with Ghanjivamrit @ 250 kg/ha mixed with 250 kg FYM/ha</td></tr> </table>	T ₁	No use of mulching and Ghanjivamrit	T ₂	Use of Improved variety Roma with Paddy straw mulching @ 0.5 kg/m ² along with Ghanjivamrit @ 250 kg/ha mixed with 250 kg FYM/ha	T ₃	Use of Improved variety Roma with Paddy straw mulch @ 1kg/m ² along with Ghanjivamrit @ 250 kg/ha mixed with 250 kg FYM/ha
T ₁	No use of mulching and Ghanjivamrit						
T ₂	Use of Improved variety Roma with Paddy straw mulching @ 0.5 kg/m ² along with Ghanjivamrit @ 250 kg/ha mixed with 250 kg FYM/ha						
T ₃	Use of Improved variety Roma with Paddy straw mulch @ 1kg/m ² along with Ghanjivamrit @ 250 kg/ha mixed with 250 kg FYM/ha						
Source of technology	IISR, 2014						
Plot size	0.4 ha						
No. of farmers	5						
Total cost	6000						
Critical input	Mulching , Jivamrit and Ghanjivamrit						
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	Weight of primary and Secondary Rhizome/ plant at harvest, yield Q/ha, B:C ratio						

OFT-6

Crop / Enterprise	Okra						
Title of on farm trial	Assessment of Improved Variety of Okra (Kashi Shristi & Kashi Chaman) with integrated crop management						
Problem diagnosed	Low yield due to use of open pollinated varieties of Okra						
Farmers' Practices	Low yield due to use of open pollinated varieties of Okra						
Details of technologies selected for assessment	<table border="1"> <tr> <td>T₁</td><td>Cultivation of OP variety (Abha)</td></tr> <tr> <td>T₂</td><td>Use of hybrid variety (Kashi Shristi)</td></tr> <tr> <td>T₃</td><td>Use of hybrid variety (Kashi Chaman)</td></tr> </table>	T ₁	Cultivation of OP variety (Abha)	T ₂	Use of hybrid variety (Kashi Shristi)	T ₃	Use of hybrid variety (Kashi Chaman)
T ₁	Cultivation of OP variety (Abha)						
T ₂	Use of hybrid variety (Kashi Shristi)						
T ₃	Use of hybrid variety (Kashi Chaman)						
Source of technology	IIVR, Varanasi 2019						
Plot size	0.2 ha						
No. of farmers	5						
Total cost	10000						

Critical input	Seeds of Improved variety
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	No of fruits/plant, Fruit length, Yield Q/ha., B:C ratio

OFT – 7

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of high yielding tomato variety Arka Samrat and Arka Rakshak
Problem diagnosed	Low yield due to use of open pollinated varieties of Tomato
Farmers' Practices	Use of Open pollinated variety S-22
Details of technologies selected for assessment	T ₁ Use of Open pollinated variety S-22
	T ₂ Use of hybrid variety Arka Samrat , High yielding, disease resistant suitable for fresh market yield 80-85 t/ha in 140-150 days
	T ₃ Use of hybrid variety Arka Rakshak High yielding, disease resistant suitable for fresh market and processing yield 75-80 t/ha in 140-150 days
Source of technology	IIHR, Bangalore 2012
Plot size	0.2 ha
No. of farmers	5
Total cost	9500
Critical input	Seeds of Improved variety
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	Weight of fruit, No. of fruits/plant, Yield (q/ha), BC ratio

OFT – 8

Crop / Enterprise	Marigold
Title of on farm trial	Assessment of Marigold Variety (Pusa Bahar & Tennis Ball) for its production and Income generation
Problem diagnosed	Low yield of Flower due to use of old variety (Deshi Hajariya)
Farmers' Practices	Cultivation of old deshi variety (Hajariya)
Details of technologies selected for assessment	T ₁ Cultivation of old deshi variety (Hajariya)
	T ₂ Cultivation of old deshi variety (Hajariya)
	T ₃ Use of improved variety (Pusa Bahar)
Source of technology	IARI, New Delhi 2017
Plot size	0.2 ha
No. of farmers	5
Total cost	15000
Critical input	Seeds of Improved variety
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	No. of flowers/plant, Yield (Q/ha), B:C ratio

OFT – 9

Crop / Enterprise	Biodegradable Waste Management
Title of on farm trial	Assessment of biodecomposer for decomposition of Biodegradable waste for rapid composting
Problem diagnosed	No use of decomposer for decomposition of biodegradable waste results delay in decomposition process
Farmers' Practices	Decomposition of biodegradable waste in open heap without decomposer
Details of technologies selected for assessment	T ₁ Decomposition of biodegradable waste in open heap without decomposer
	T ₂ Use of bacterial and fungal based biodecomposer each @ 500ml/ton of raw material
	T ₃ fungal based biodecomposer each @ 500ml/ton of raw material
Source of technology	JNKVV 2016
Plot size	50 sq. feet
No. of farmers	5
Total cost	3000

Critical input	Biodecomposer (Bacterial and fungal based)
Performance indicators: (i)Technical- Yield (q/ ha) (ii)Economic- B:C ratio (iii) Social – Employment generation	No. of days required for decomposition, organic carbon %, Nutrient content N, P, K (%)

OFT – 10

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Sulphur nutrient application on yield of soybean crop
Problem diagnosed	Low yield of soybean due to no use of Sulphur fertilizer
Farmers' Practices	No use of Sulphur based fertilizer, only DAP @ 50 kg/ha, N:P:K:S 9:23:0:0
Details of technologies selected for assessment	T ₁ No use of Sulphur based fertilizer, only DAP @ 50 kg/ha, N:P:K:S 9:23:0:0
	T ₂ Application of Sulphur @ 30 kg/ha as basal along with RDF N:P:K 20:60:20 kg/ha (STV based)
	T ₃ -
Source of technology	IISS Bhopal (2012)
Plot size	0.4 ha
No. of farmers	5
Total cost	4000
Critical input	Bentonite sulphur
Performance indicators: (i)Technical- Yield (q/ ha) (ii)Economic- B:C ratio (iii) Social – Employment generation	No. of pods/plant, Yield (Q/ha), B:C ratio)

OFT-11

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Ghanjivamrit and Jivamrit in chickpea crop
Problem diagnosed	Low yield of Chickpea due to less availability of plant nutrients
Farmers' Practices	No use of natural inputs (Jivamrit and Ghanjivamrit)
Details of technologies selected for assessment	T ₁ No use of natural inputs (Jivamrit and Ghanjivamrit)
	T ₂ Soil application of Ghanjivamrit @ 500 kg /ha before sowing, application of Jivamrit at the time of first irrigation @ 500 liter/ha
	T ₃ T ₂ + foliar application of Jivamrit @ 0.3% at 45, 60 and 85 DAS
Source of technology	National centre of organic Farming , Ghaziabad 2019
Plot size	0.4 ha
No. of farmers	5
Total cost	5000
Critical input	Jaggery and Besan
Performance indicators: (i)Technical- Yield (q/ ha) (ii)Economic- B:C ratio (iii) Social – Employment generation	OC %, No. of effective nodules/plant, No. of pods/plant, Yield (Q/ha), B:C ratio

OFT – 12

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Zinc micronutrient in irrigated wheat crop under Rice-Wheat cropping system
Problem diagnosed	Low quality yield due to deficiency of zinc micro nutrient
Farmers' Practices	No use of Zinc fertilizer
Details of technologies selected for assessment	T ₁ No use of Zinc fertilizer
	T ₂ Soil application of recommended dose of Zinc @ 5 kg/ha (Zinc Sulphate 21% @ 25 kg/ha) in three years along with RDF N:P:K @ 100:60:40 based on STV
	T ₃ -
Source of technology	IISS/JNKVV 2013
Plot size	0.4 ha
No. of farmers	5

Total cost	4000
Critical input	Zinc Sulphate 21%
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	No. of effective tiller/m ² , yield (q/ha), B:C ratio

OFT - 13

Crop / Enterprise	Kodo
Title of on farm trial	Assessment of improved variety of Kodo JK-137 with integrated crop management
Problem diagnosed	Low yield of Kodo due to use of traditional variety and no use of fertilizers
Farmers' Practices	Use of traditional variety and degenerated seeds with local package of practices
Details of technologies selected for assessment	T ₁ Use of traditional variety and degenerated seeds with local package of practices
	T ₂ Use of improved variety of Kodo (JK-137) along with recommended package practices (10 kg seed/ha, application of FYM 5 ton/ha, 40:20:20 kg NPK/ha, seed treatment with Carbendazim + Mancozeb @ 2 g/kg seed, soil application of <i>Azospirillum</i> / <i>Azotobacter</i> and PSB cultures @ 3 kg/ha prior mixed with 150 kg FYM
	T ₃ -
Source of technology	JNKVV 2015
Plot size	0.4 ha
No. of farmers	5
Total cost	7000
Critical input	Seeds, Fertilizers, Biofertilizers
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	No. of effective tiller/m ² , yield (q/ha), B:C ratio

Detailed Information about OFT:

OFT-1

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated disease management of Rhizome Rot in Ginger
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of ginger due to high incidence of Rhizome Rot disease
Thematic area:	IDM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No Rhizome and soil treatment
T2 –Recommended Practice-	Rhizome treatment at pre sowing stage with Metalaxyl + Mancozeb @ 0.2% + Soil treatment with <i>Trichoderma viride</i> @ 5 kg/ha mixed with 150 Kg FYM
T3- Recommended Practice-	T ₂ + 2-3 drenching with Metalaxyl + Mancozeb @ 0.25% at early onset of disease at 15 days interval
Date of sowing:	1-10 July 2023
Date of harvesting:	1-15 December 2023
Source of technology:	IISR, Kerala 2014
Characteristics of technology:	Rhizome treatment at pre sowing stage with Metalaxyl + Mancozeb @ 0.2% + Soil treatment with <i>Trichoderma viride</i> @ 5 kg/ha mixed with 150 Kg FYM and 2-3 drenching with Metalaxyl + Mancozeb @ 0.25% at early onset of disease at 15 days interval
Name of Crop/Enterprises:	Ginger

Recommendations for Farmers	Awaited
Recommendations for Deptt. Personnel	Awaited
Feedback	Awaited

OFT 2

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated disease management practices for the management of Cercospora Leaf spot disease of Blackgram
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of blackgram due to high incidence of Cercospora Leaf spot disease
Thematic area:	IDM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No seed treatment and injudicious use of fungicides
T2 –Recommended Practice-	Seed treatment with Carboxin + Thiram @ 2 g/kg seed
T3- Recommended Practice-	T-2 + two foliar spray of Mancozeb @ 2.5 g/liter of water at 10-15 days interval at the onset of the disease
Date of sowing:	1-10 July 2023
Date of harvesting:	1-10 October 2023
Source of technology:	TNAU, Coimbatore 2014
Characteristics of technology:	Seed treatment with Carboxin + Thiram @ 2 g/kg seed and two foliar spray of Mancozeb @ 2.5 g/liter of water at 10-15 days interval at the onset of the disease
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated approach for the management of Collar rot disease of Chickpea
Year/Season:	2023-24/Rabi
Farming situation:	Semi-irrigated
Problem diagnosis:	Low yield of chickpea due to incidence of collar rot disease
Thematic area:	IDM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No deep summer ploughing, No soil and seed treatment
T2 –Recommended Practice-	Deep summer ploughing, soil treatment with <i>Trichoderma</i> @ 2.5 kg/ha, seed treatment with <i>Trichoderma</i> @ 10 g/kg seed, avoid the use of undecomposed FYM, avoid high soil moisture at sowing and seedling stage

T3- Recommended Practice-	T2 + Soil drenching of <i>Pseudomonas fluorescence</i> @ 2.5 lit/ha at 25-30 DAS
Date of sowing:	1-10 November 2023
Date of harvesting:	25-30 March 2024
Source of technology:	NIPHM, Hyderabad 2015
Characteristics of technology:	Deep summer ploughing, soil treatment with <i>Trichoderma</i> @ 2.5 kg/ha, seed treatment with <i>Trichoderma</i> @ 10 g/kg seed, avoid the use of undecomposed FYM, avoid high soil moisture at sowing and seedling stage and Soil drenching of <i>Pseudomonas fluorescence</i> @ 2.5 lit/ha at 25-30 DAS
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated approach for the management of Purple Blotch disease of Onion
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of onion due to incidence of Purple Blotch disease
Thematic area:	IDM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No seed and seedling treatment and injudicious use of fungicides
T2 –Recommended Practice-	Seed treatment with <i>Trichoderma viride</i> @ 10 g/kg seed followed by seedling treatment with Mancozeb 64% WP + Metalaxyl 4% WP @ 3g/liter of water at the time of transplanting
T3- Recommended Practice-	T ₂ + foliar spray of Mancozeb + Metalaxyl @ 2 g/liter of water at the interval of 15 days ha on the onset of disease appearance
Date of sowing:	15-25 December 2023
Date of harvesting:	15-30 April 2024
Source of technology:	NHRDF, 2018-19
Characteristics of technology:	Seed treatment with <i>Trichoderma viride</i> @ 10 g/kg seed followed by seedling treatment with Mancozeb 64% WP + Metalaxyl 4% WP @ 3g/liter of water at the time of transplanting and foliar spray of Mancozeb + Metalaxyl @ 2 g/liter of water at the interval of 15 days ha on the onset of disease appearance
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Name of Discipline Horticulture	Horticulture
Title of on-farm trial:	Assessment of Paddy Straw Mulching on turmeric Rhizome Production
Year/Season:	2023-24/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of turmeric due to No use of mulching.

Thematic area:	HOV
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of mulching , Ghanjivamrit, Jivamrit
T2 –Recommended Practice-	Use of Improved variety Roma with Paddy straw mulching @ 0.5 kg/m ² along with Ghanjivamrit @ 250 kg/ha, and Jivamrit 500 liter/ha
T3- Recommended Practice-	Use of Improved variety Roma with Paddy straw mulch @ 1kg/m ² along with Ghanjivamrit @ 250 kg/ha and Jivamrit 500 liter /ha at time of irrigation
Date of sowing:	June 2023
Date of harvesting:	March 2023
Source of technology:	IISR, Kerla 2014
Characteristics of technology:	Use of Paddy straw mulch @ 1kg/m ² along with Ghanjivamrit @ 250 kg/ha and Jivamrit 500 liter/ha at time of irrigation
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Improved Variety of Okra (Kashi Shristi & Kashi Chaman) with integrated crop management
Year/Season:	2023-24/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of open pollinated varieties of Okra
Thematic area:	HOV
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of OP variety (Abha)
T2 –Recommended Practice-	Use of hybrid variety Kashi Shristi , High yielding (18-20 t/ha), Medium tall, Tolerant to YVMV, suitable for both Kharif and Summer Season
T3- Recommended Practice-	Use of hybrid variety Kashi Chaman , High yielding (15-16 t/ha), Flowering starts 38-40 DAS, Medium tall, Resistant to YVMV, suitable for both Kharif and Summer Season
Date of sowing:	July 2023
Date of harvesting:	October 2023
Source of technology:	IIVR. Varanasi 2019
Characteristics of technology:	High yielding 18-20 t/ha, Medium tall, Tolerant to YVMV, suitable for both Kharif and Summer Season
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding tomato variety Arka Samrat and Arka Rakshak
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of open pollinated varieties of Tomato
Thematic area:	HOV
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Open pollinated variety S-22
T2 –Recommended Practice-	Use of hybrid variety Arka Samrat , High yielding, disease resistant suitable for fresh market yield 80-85 t/ha in 140-150 days
T3- Recommended Practice-	Use of hybrid variety Arka Rakshak High yielding, disease resistant suitable for fresh market and processing yield 75-80 t/ha in 140-150 days
Date of sowing:	November 2023
Date of harvesting:	February 2024
Source of technology:	IIHR, Bangalore 2012
Characteristics of technology:	High yielding, disease resistant, suitable for fresh market and processing, yield 75-80 t/ha in 140-150 days
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-8

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Marigold Variety (Pusa Bahar & Tennis Ball) for its production and income generation.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Flower due to use of old variety (Deshi Hajariya)
Thematic area:	HOV
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of old deshi variety (Hajariya)
T2 –Recommended Practice-	Use of improved variety (Pusa Bahar) flowers produce in 90 days after transplanting, flowers Compact , Large size, attractive and 50-60/ plant
T3- Recommended Practice-	Use of improved variety (Tennis Ball) flower structure highly Compact, Ball Shaped, Flowers produces 60-65 days after transplanting, suitable for long distance shipping, Excellent marketability, High yield
Date of sowing:	October 2023
Date of harvesting:	January 2024
Source of technology:	IARI, New Delhi 2017
Characteristics of technology:	Flower structure highly Compact, Ball Shaped, Flowers produces 60-65 days after transplanting, suitable for long distance shipping, Excellent marketability, High yield
Name of Crop/Enterprises:	Marigold

Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of bio decomposer for decomposition of biodegradable waste for rapid composting
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	No use of decomposer for decomposition of biodegradable waste results delay in decomposition process
Thematic area:	Crop residue management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Decomposition of biodegradable waste in open heap without decomposer
T2 –Recommended Practice-	Use of bacterial based biodecomposer @ 500ml/ton of raw material
T3- Recommended Practice-	T2 + fungal based biodecomposer @ 500 ml/ ton of raw material
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2016
Characteristics of technology:	Mix 500 ml of biodecomposer for 1 ton of raw material along with sufficient moisture. After 8-10 days turnoff the organic raw material and again spray this solution and mix thoroughly and hip up for 45 to 60 days
Name of Crop/Enterprises:	Biodegradable waste
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Sulphur nutrient application on yield of soybean crop.
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of soybean due to no use of sulphur fertilizer
Thematic area:	Soil Fertility management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of sulphur based fertilizer, only DAP @ 50 kg/ha, N:P:K:S 9:23:0:0
T2 –Recommended Practice-	Application of Sulphur @ 30 kg/ha as basal along with RDF N:P:K 20:60:20 kg/ha (STV based)
T3- Recommended Practice-	-
Date of sowing:	20-25 June 2023
Date of harvesting:	September 2023
Source of technology:	IISS Bhopal (2013)

Characteristics of technology:	Seed treatment with Rhizobium@ 10 gm/kg seed, soil application of PSB @ 3kg/ha, sulphur @30 kg/ha and N:P:K @ 20:60:20 kg/ha (STV based)
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Ghanjivamrit and Jivamrit in chickpea crop
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Chickpea due to less availability of plant nutrient
Thematic area:	Natural Farming/Soil Fertility management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of natural inputs (Jivamrit and Ghanjivamrit)
T2 –Recommended Practice-	Soil application of Ghanjivamrit @ 500 kg /ha before sowing, application of Jivamrit at the time of first irrigation @ 500 liter/ha
T3- Recommended Practice-	T ₂ + foliar application of Jivamrit @ 0.3% at 45, 60 and 85 DAS
Date of sowing:	Oct 2023
Date of harvesting:	March 2024
Source of technology:	National centre of organic Farming , Ghaziabad 2019
Characteristics of technology:	Soil application of Ghanjivamrit @ 500 kg /ha before sowing, application of Jivamrit at the time of first irrigation @ 500 liter/ha and foliar application of Jivamrit @ 0.3% at 45, 60 and 85 DAS
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Zinc micronutrient in irrigated wheat under Rice – Wheat cropping system
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low quality yield due to deficiency of Zinc micronutrient
Thematic area:	Nutrient management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Zinc fertilizer

T2 –Recommended Practice-	Application of recommended dose of Zinc @ 5 kg/ha (Zinc Sulphate 21% @25 kg/ha) in three years along with RDF N:P:K @ 100:60:40 based on STV
T3- Recommended Practice-	-
Date of sowing:	Nov 2023
Date of harvesting:	March 2024
Source of technology:	IISS/JNKVV 2013
Characteristics of technology:	Application of recommended dose of Zinc @ 5 kg/ha (Zinc Sulphate 21% @25 kg/ha)
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of improved variety of Kodo JK-137 with integrated crop management
Year/Season:	2023-24/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Kodo due to use of traditional variety and no use of fertilizers
Thematic area:	CPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of traditional variety and degenerated seeds with local package of practices
T2 –Recommended Practice-	Use of improved variety of Kodo (JK-137) along with recommended package practices (10 kg seed/ha, application of FYM 5 ton/ha, 40:20:20 kg NPK/ha, seed treatment with Carbendazim + Mancozeb @ 2 g/kg seed, soil application of <i>Azospirillum</i> / <i>Azotobacter</i> and PSB cultures @ 3 kg/ha prior mixed with 150 kg FYM
T3- Recommended Practice-	-
Date of sowing:	July 2023
Date of harvesting:	October 2023
Source of technology:	JNKVV 2015
Characteristics of technology:	Cultivation of improved variety of Kodo JK-137 with integrated crop management
Name of Crop/Enterprises:	Kodo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: **NIL**

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention	

under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: NIL

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

S. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Paddy	IDM	Deep summer ploughing, seed treatment with Carbendazim + Thiram @ 1+ 2 g/kg seed and foliar spray of Hexaconazole @ 1 ml/liter of water before flowering	Carbendazim + Thiram, Hexaconazole	Kharif 2023	02	5	Disease incidence (%), No. of tillers /plant, Yield q/ha, B:C ratio
2	Sesame	IDM	Deep summer ploughing, seed treatment with Carbendazim + Thiram @ 1+2 g/kg seed, drainage of excess water, foliar spray of Metalaxyl + Mancozeb @ 0.2% at the onset of disease	Carbendazim+Thiram, Metalaxyl + Mancozeb	Kharif 2023	02	5	Disease incidence (%), No. of pods /plant, Yield q/ha, B:C ratio
3	Chickpea	IDM	Deep summer ploughing, soil treatment with Trichoderma @ 2.5 kg/ha mixed with 125 kg FYM, seed treatment with Carboxin + Thiram @ 2 g/kg seed	Carboxin + Thiram, Trichoderma	Rabi 2023-24	02	5	Disease incidence (%), No. of pods /plant, Yield q/ha, B:C ratio
4	Onion	IDM	Seed treatment followed by root dip with <i>Trichoderma viride</i> @ 10ml/lit water, foliar spray of Mancozeb @ 0.25 % at 15 days interval on the onset of disease appearance followed by Spinosad @ 125 ml/ha	<i>Trichoderma viride</i> , Mancozeb, Spinosad	Rabi 2023-24	02	5	Disease incidence (%), Size of Bulb, Yield q/ha, B:C ratio
5	Onion (Kharif)	HOV	Demonstration of improved variety of Kharif onion (Bhima Super) Seed treatment with Trichoderma, Azotobacter and PSB @ 10 ml each /l water with balance dose of fertilizer (120:80:60:25 NPKS kg/ha), spacing (15x10 cm	Seed	Kharif 2023-24	01	5	Bulb size and weight, Yield q/ha, days to maturity and storability.

6	Garlic	HOV	Demonstration on improved variety of Garlic (G-282) with Clove treatment Trichoderma, Azotobacter and PSB @ 10 ml each /l water with balance dose of fertilizer (120:80:60:25 NPKS kg/ha), spacing (15x10 cm	Cloves	Rabi 2023-24	01	5	Cloves size and weight, Yield q/ha, days to maturity and storability.
7	Vegetable Pea	HOV	Demonstration on improved variety of Vegetable Pea Kashi Nandini with Seed treatment Trichoderma and PSB @ 10 ml each /l water .	Seed	Rabi 2023-24	01	5	Length of pods, No.of seeds/pod, No.of pods/plant. No. of days to first harvest, Yield q/ha
8	Cucumber	INM	Use of Improved variety Nirali with Seed treatment Trichoderma and PSB @ 10 ml each /l water, along with balance dose of fertilizer (60:30:30 NPK kg/ha), spacing (100 x 50 cm) with staking	Biofertilizers and NPK	Kharif 2023-24	01	5	Number of fruits/ plant, no of days to harvest & yield q/ha
9	Blackgram	INM	70% RDF @ 20:60:20 (STV based) + Seed treatment with Rhizobium @ 10 gm/kg seed + Soil application of PSB @ 3 kg/ha + FYM 10 t/ha	Rhizobium, PSB, Fortified Single super phosphate, Muriate of Potash	Kharif 2023	02	5	No.of effective nodules/plant , No. of pods/plant, Yield kg/ha, Economics (Net returns and B:C ratio)
10	Sesame	INM	70% RDF @ 30:60:20 (STV based) + Soil application of Azotobacter and PSB @ 3 kg/ha + FYM 10 t/ha	Azotobacter, PSB, Nano urea , Fortified Single super phosphate, Muriate of Potash	Kharif 2023	02	5	No. of siliqua/plant , Yield kg/ha, Economics (Net returns and B:C ratio)
11	Chickpea	Soil Fertility management	Seed treatment with Ammonium molybdate @ 1gm/kg seed and Rhizobium @ 10 gm/kg seed + soil application of PSB @ 3 kg/ha	Ammonium Molybdate	Rabi 2023-24	02	5	No.of effective nodules/plant , No. of pods/plant, Yield kg/ha, Economics (Net returns and B:C ratio)
12	Wheat	INM	70% RDF @ 100:60:40 (STV based) + Soil application of Azotobacter and PSB @ 3 kg/ha + FYM 10 t/ha	Azotobacter. PSB, Nano urea , Fortified Single super phosphate, Muriate of Potash	Rabi 2023-24	02	5	No. of tillers/sq meter, Yield kg/ha, Economics (Net returns and B:C ratio)

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Sesame	INM	75% of RDF NPK @30:60:20+soil application of Azotobacter, PSB + FYM 10 t/ha	Azotobacter PSB, Nano urea, Fortified SSP, MOP	Kharif 2023	2	5	No. of siliqua/plant, Yield kg/ha, Economics (Net Returns &B:C ratio)
2	Blackgram	INM	75% of RDF NPK @20:60:20+seed treatment with Rhizobium, soil application of PSB + FYM 10 t/ha	Rhizobium PSB, Fortified SSP, MOP	Kharif 2023	2	5	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
3	Chickpea	Soil Fertility Management	Seed treatment with Ammonium Molybdate@ 1 gm/kg seed, Rhizobium@10 gm/kg seed, soil application of PSB @ 3 kg/ha	Ammonium molybdate	Rabi 2023-24	2	5	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
4	Wheat	INM	75% of RDF NPK @100:60:40+soil application of Azotobacter and PSB @ 3kg/ha , foliar spray of Pseudomonas @ 2.5 lit/ha +FYM 10 t/ha	Azotobacter PSB, Nano urea, Fortified SSP, MOP	Rabi 2023-24	2	5	No. of tillers/sq meter, Yield kg/ha, Economics (Net Returns &B:C ratio)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	September to December	100
2	Farmers Training	4	June to December	100
3	Media coverage	4	June to December	Mass
4	Training for extension functionaries	2	June to December	50

Details of FLD on Enterprises Farm Implements

Nil

Details of FLDs on Agriculture Engineering implemented during Jan-2022 to Dec-2022

Nil

[illegible]

Livestock Enterprises Nil

Details of FLDs on Animal Science implemented during Jan-2022 to Dec-2022

KVK Name	Thematic area	Technology for demonstration	Name of Enterprise	Name of Breed	Completed/ Ongoing	No. of unit (Animals, poultry birds etc.)	No. of farmers			
							SC	ST	Others	Gen
Panna	-	-	-	-	-	-	-	-	-	-

Other Enterprises Nil

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Kharif 2023	20	50	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
2	Pigeonpea	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Kharif 2023	20	50	No.of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
3	Sesame	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Kharif 2023	20	50	No. of siliqua/plant, Yield kg/ha, Economics (Net Returns &B:C ratio)
4	Chickpea	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Rabi 2023-24	20	50	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
5	Lentil	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Rabi 2023-24	10	25	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
6	Fieldpea	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line	Seed, Biofertilizers, weedicides, Fungicides, Insecticides,	Rabi 2023-24	10	25	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C

			sowing INM, IPM	Funnel trap and Lure				ratio)
7	Mustard	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Rabi 2023-24	20	50	No. of siliqua/plant, Yield kg/ha, Economics (Net Returns &B:C ratio)
8	Greengram	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Summer	10	25	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
9	Blackgram	Integrated crop management	Improved variety, seed treatment with biofertilizers and fungicides, line sowing INM, IPM	Seed, Biofertilizers, weedicides, Fungicides, Insecticides, Funnel trap and Lure	Summer	10	25	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	9	September to December	270
2	Farmers Training	9	June to December	270
3	Media coverage	5	June to December	Mass
4	Training for extension functionaries	2	June to December	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Integrated Farming	2	1							50
Water management									
Seed production									
Integrated Crop Management	2	1							50
Total	4	1							100
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1							25
Protective cultivation (Green Houses, Shade Net etc.)	2	1							50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
Total	3	1							75
b) Fruits									
Management of young plants/orchards	1	1							25
Total	1	1							25
c) Ornamental Plants	1	1							25
Total	1	1							25
d) Plantation crops	1	1							25
Total	1	1							25
e) Tuber crops	1	1							25
Total	1	1							25
f) Spices									
Production and Management technology	1	1							25
Total	1	1							25
g) Medicinal and Aromatic Plants									
Production and management technology	1	1							25
Total	1	1							25
Grand total (Horticulture)	9	1							225
III Soil Health and Fertility Management									
Soil fertility management	1	1							25
Soil and Water Conservation	1	1							25
Integrated Nutrient Management	1	1							25
Production and use of organic inputs	1	1							25
Management of Problematic soils	1	1							25
Micro nutrient deficiency in crops	1	1							25
Nutrient Use Efficiency	1	1							25
Soil and Water Testing	1	1							25
Total	8	1							200
IV Livestock Production and Management									
Dairy Management	0	0							0
Poultry Management	0	0							0
Disease Management	0	0							0
Feed management	0	0							0
Production of quality animal products	0	0							0
Total	0	0							0

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0	0							0
Design and development of low/minimum cost diet	0	0							0
Designing and development for high nutrient efficiency diet	0	0							0
Minimization of nutrient loss in processing	0	0							0
Gender mainstreaming through SHGs	0	0							0
Value addition	0	0							0
Income generation activities for empowerment of rural Women	0	0							0
Location specific drudgery reduction technologies	0	0							0
Women and child care	0	0							0
Total	0	0							0
VI Agril. Engineering									
Total	0	0							0
VII Plant Protection									
Integrated Pest Management	3	1							75
Integrated Disease Management	3	1							75
Bio-control of pests and diseases	3	1							75
Production of bio control agents and bio pesticides	1	1							25
Total	10	1							250
VIII Fisheries									
Integrated fish farming	0	0							0
Total									
IX Production of Inputs at site									
Vermi-compost production	0	0						0	0
Organic manures production	0	0						0	0
Total	0	0							0

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
use of organic inputs									
Gender mainstreaming through SHGs									
Any other (Pl. Specify)									
TOTAL	4	1							60

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1							25
Resource Conservation Technologies	1	1							
Cropping Systems	1	1							25
Crop Diversification	1								25
Integrated Farming	1	1							25
Water management	1								25
Seed production	1	1							25
Nursery management	1	1							25
Integrated Crop Management	1	1							25
Fodder production	1	1							25
Production of organic inputs	0	0							25
Total	10	1							250
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1							25
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	1	1							25
b) Fruits									25
Cultivation of Fruit	1	1							25
Management of young plants/orchards	1	1							25
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants	1	1							25
d) Plantation crops	1	1							25
e) Tuber crops	1	1							25
f) Spices	1	1							25
g) Medicinal and Aromatic Plants	1	1							25
Total	9	1							225
III Soil Health and Fertility Management									
Soil fertility management	3	1							75

Soil and Water Conservation									
Integrated Nutrient Management	4	1							100
Production and use of organic inputs	1	1							25
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing	1	1							25
Total	9	1							225
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total	0	0							0
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0	0							0
Design and development of low/minimum cost diet	0	0							0
Designing and development for high nutrient efficiency diet	0	0							0
Minimization of nutrient loss in processing	0	0							0
Gender mainstreaming through SHGs	0	0							0
Storage loss minimization techniques	0	0							0
Value addition	0	0							0
Income generation activities for empowerment of rural Women	0	0							0
Location specific drudgery reduction technologies	0	0							0
Rural Crafts	0	0							0
Women and child care	0	0							0
Total	0	0							0
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	3	1							75
Integrated Disease Management	4	1							100
Bio-control of pests	3	1							75

and diseases									
Production of bio control agents and bio pesticides									25
Total	10	1							250
VIII Fisheries	0	0							0
IX Production of Inputs at site	0								0
X Capacity Building and Group Dynamics	0	0							0
Leadership development	0	0							0
Group dynamics	0	0							0
Formation and Management of SHGs	0	0							0
Mobilization of social capital	0	0							0
Entrepreneurial development of farmers/youths	0	0							0
WTO and IPR issues	0	0							0
Total	0	0							0
XI Agro-forestry	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0
Grand Total	38	1							950
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL	0	0							0
(C) Extension Personnel	4	1							60
TOTAL	4	1							60

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April	F &FW	Importance of Green manuring to enrich the soil fertility	1							25
May	F &FW	Major Cropping System for Bundelkhand Region	1							25
June	F &FW	Package and Practices of Paddy Seed Production	1							25
July	F &FW	Advantages of Ridge and Furrow Method of Sowing in Soybean	1							25
August	F &FW	Weed Management In Blackgram Crop	1							25
September	F &FW	Components of Integrated Farming System	1							25
October	F &FW	Package and practices of Mustard crop	1							25
November	F &FW	Package and Practices of Wheat crop	1							25
December	F &FW	Package and Practices of Chickpea crop	1							25
Horticulture										
April	F &FW	Production Technology of cucurbits	1							25
May	F &FW	Production technology of Ginger & Turmeric	1							25
June	F &FW	Improved production technology of Kharif Onion	1							25
July	F &FW	Nursery Management in Vegetable Crops	1							25
August	F &FW	Improved production	1							25

		technology of Papaya								
September	F &FW	Establishment and Management of Aonla Orchards	1							25
October	F &FW	Improved Production Technology of Marigold	1							25
November	F &FW	Importance of drip irrigation in fruit plants	1							25
December	F &FW	Training and Pruning in Guava	1							25
Livestock production										
Home Science										
Plant Protection										
April	F &FW	Importance of Deep Summer Ploughing for the management of soil borne diseases	1							25
May	F &FW	Management of Rhizome Rot of Ginger	1							25
June	F &FW	Management of wilt disease of Pigeonpea through soil and seed treatment with Trichoderma and Pseudomonas	1							25
July	F &FW	Integrated approach for the management of yellow mosaic disease of Blackgram	1							25
August	F &FW	Management of Phytophthora blight disease of Sesame	1							25
September	F &FW	Management of False smut disease in paddy	1							25
October	F &FW	Management of Fruit and Shoot borer insect pest in brinjal	1							25
November	F &FW	Management of wilt disease of chickpea through seed	1							25

		treatment with Trichoderma and Pseudomonas biofertilizers								
December	F &FW	Management of Stemphylium blight disease of onion	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
April	F &FW	Soil testing and its importance	1							25
May	F &FW	Essential plant nutrients and their work	1							25
June	F &FW	Biofertilizers and their importance in crop production	1							25
July	F &FW	Integrated nutrient management in kharif crops	1							25
August	F &FW	Natural Farming	1							25
September	F &FW	Management of saline & alkaline soil	1							25
October	F &FW	Deficiency symptoms of plant nutrients	1							25
November	F &FW	Integrated nutrient management in Rabi crops	1							25
December	F &FW	Deficiency Symptoms of Plant Nutrients	1							25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April	F &FW	Importance of Green manuring to enrich the soil fertility	1							25
May	F &FW	Major Cropping System for Bundelkhand Region	1							25
June	F &FW	Package and Practices of Paddy Seed	1							25

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Home Science										
Plant Protection										
April	F &FW	Importance of Deep Summer Ploughing for the management of soil borne diseases	1							25
May	F &FW	Management of Rhizome Rot of Ginger	1							25
June	F &FW	Management of wilt disease of Pigeonpea through soil and seed treatment with Trichoderma and Pseudomonas	1							25
July	F &FW	Integrated approach for the management of yellow mosaic disease of Blackgram	1							25
August	F &FW	Management of Phytophthora blight disease of Sesame	1							25
September	F &FW	Management of False smut disease in paddy	1							25
October	F &FW	Management of Fruit and Shoot borer insect pest in brinjal	1							25
November	F &FW	Management of wilt disease of chickpea through seed treatment with Trichoderma and Pseudomonas biofertilizers	1							25
December	F &FW	Management of Stemphylium blight disease of onion	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
April	F&FW	Importance of Soil testing	1							25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
May	F&FW	Integrated Nutrient Management in Kharif crops	1							25
June	F&FW	Integrated Nutrient Management in Kharif crops	1							25
July	F&FW	Natural Farming	1							25
August	F&FW	Micro nutrient deficiency	1							25
September	F&FW	Integrated Nutrient Management in Rabi crops	1							25
October	F&FW	Integrated Nutrient Management in Rabi crops	1							25
November	F&FW	How to increase fertilizer use efficiency	1							25
December	F&FW	Importance of Biofertilizers	1							25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
November	RY	Nursery Management of Vegetable Crops	3							15
Livestock production										
Home Science										
Plant Protection										
October	RY	Production Technology of Oyster Mushroom	3							15

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	IS	Production Technologies of Kharif Field Crops	1							15
October	IS	Production Technologies of Rabi Field Crops	1							15
Horticulture										
July	IS	Production Technologies of Kharif Vegetable Crops								
October	IS	Production Technologies of Rabi Vegetable Crops								
Livestock production										
Home Science										
Plant Protection										
July	IS	Integrated Pest and Diseases management of Kharif Crops	1							15
November	IS	Integrated Pest and Diseases management of Rabi Crops	1							15
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
June	IS	INM in Kharif Crops	1							15

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
October	IS	INM in Rabi crops	1	-	-	-	-	-	-	25

iii) Table 5.5. Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Production Technology of Kharif Crops	Crop production and management	1	F&FW	1								
2.	Production Technology of Rabi crops	Crop production and management	1	F&FW	1								
3.	Production Technology of Kharif Vegetable crops	Crop production and management	1	F&FW	1								
4.	Production Technology of Rabi Vegetable crops	Crop production and management	1	F&FW	1								
5.	Integrated diseases and pest management of Kharif crops	Crop production and management	1	F&FW	1								
6.	Integrated diseases and pest management of Rabi crops	Crop production and management	1	F&FW	1								
7.	INM in Kharif crops	INM	1	F&FW	1								

8.	INM in Rabi crops	INM	1	F&FW	1								

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10									300
Kisan Mela	2									500
Kisan Gosthi	12									300
Exhibition	4									500
Film Show	2									50
Method Demonstrations	2									10
Farmers Seminar	4									100
Workshop	4									200
Group meetings	8									160
Lectures delivered as resource persons	10									250
Newspaper coverage	20									MASS
Radio talks	2									MASS
TV talks	1									MASS
Popular articles	5									MASS
Extension Literature	5									MASS
Advisory Services	36									5000
Scientific visit to farmers field	48									500
Farmers visit to KVK	18									1000
Diagnostic visits	10									150
Exposure visits	4									100
Ex-trainees Sammelan	2									50
Soil health Camp	2									50
Animal Health Camp	2									50
Agri mobile clinic	2									100
Soil test campaigns	2									100
Farm Science Club Conveners meet	2									100
Self Help Group Conveners meetings	2									50
Mahila Mandals Conveners meetings	2									40
Celebration of important days (specify)	12									750
Others (pl. specify)	-									-
Total	235									10410

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety (pl. give the name of variety instead of local)	Quantity (qtl.)	Value (Rs.)	Provided to no. of Farmers/ society	Expected area coverage (ha.)
Cereals	Paddy	JR-206				
Oilseeds	Soybean	JS-20-116				
Oilseeds	Soybean	JS-2098				
Pulses	Lentil	IPL -316				

Pulses	Chickpea	JG-12				
Pulses	Chickpea	JG-36				
Spices	Turmeric	Roma				

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
FRUITS	Papaya	Pusa Nanha	1500			
SPICES	-	-	-			
VEGETABLES	Tomato	Hybrid	10000			
	Brinjal	Hybrid	10000			
	Chilli	Hybrid	10000			
	Cabbage	Hybrid	3000			
	Broccoli	Besty	2000			
	Cauliflower	Carotina and Valentina	6000			
	Drumstick	PKM-1	1500			
FOREST SPECIES	-	-	-			
ORNAMENTAL CROPS	Marigold	Tennis Boll	2500			
PLANTATION CROPS	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-		1500
2	Rhizobium	-		300
3	Azotobacter	-		500
	PSB	-		500
	Pseudomonas	-		100
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				
1	Dashparni ark			
2	Pesticides			
3	Beauveria bassiana			100

LIVESTOCK

S.No	Type	Name of the animal / bird / aquatics	Breed	Type of Produce	Quantity		Value (Rs.)	No. of Beneficiaries
					Unit (kg/qt./liter/no)	Qty.		
1	Dairy animals	Cow	-	-	-	-	-	-
		Calves	-	-	-	-	-	-
		Goats	-	-	-	-	-	-
		Buffaloes	-	-	-	-	-	-
		Sheep	-	-	-	-	-	-
		Breeding bull	-	-	-	-	-	-
		Other (pl specify)	-	-	-	-	-	-
2	Poultry	Poultry	Bundelkhandi and Narmada Nidhi	Cocks and Eggs	-			
		Japanese quail	-	-	-	-	-	-
		Japanese quail eggs	-	-	-	-	-	-
		Ducks	-	-	-	-	-	-
		Turkey	-	-	-	-	-	-
		Other	-	-	-	-	-	-
3	Piggery	Piglets	-	-	-	-	-	-
		Boar	-	-	-	-	-	-
		Sow	-	-	-	-	-	-
		Other (pl specify)	-	-	-	-	-	-
4	Fisheries	Indian carp	Mrigal, Katla, Rohu					
		Exotic carp						
		Other (pl specify)						

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January to March 2023	Quarterly	500
April to June 2023	Quarterly	500
July to September 2023	Quarterly	500
October to December 2023	Quarterly	500

Literature developed/published

Type	Number (please don't give mass please fill number only)	Number of copies printed (please don't give mass please fill number only)
Abstract	1	0
Book	0	0
Book Chapter	1	0
Booklet	1	500

Type	Number (please don't give mass please fill number only)	Number of copies printed (please don't give mass please fill number only)
CD/DVD	2	2
Leaflets/ Folder/ Pamphlet	5	10000
Popular article	6	0
Research Paper	0	0
Technical Bulletin	0	0
Training Manual	0	0
Technical Report	0	0
Year Planner	0	0
Others (pl. specify)	0	0

Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD		01
2	Pen Drive		01

Success stories/Case studies identified for development as a case: (06)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA and Interface
2	Rural Youth	PRA, Interface and Line Department
3	In-service personnel	Interface
4	methodology for identifying OFTs/FLDs	PRA and Interface
5	Matrix ranking	II to IV

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Tilaguwa	Panna	6-8
2	Bilha	Panna	14-16
3	Palthara	Panna	18-20
4	Bilkhura	Panna	14-16
5	Vikrampur	Panna	10-12
6	Ahircuwcamp	Panna	14-16
7	Kunjwan	Panna	8-10
8	Tara	Panna	20-22
9	Janwar	Panna	12-14
10	Gukhour	Panna	28-30

11	Sildhara	Panna	30-32
12	Umari	Panna	26-28
13	Pratappur	Ajaygarh	24-26
14	Tarauni	Ajaygarh	30-32
15	Magrailakhurd	Gunour	30-32
16	Bhilsay	Gunour	26-28
17	Vikrampur	Gunour	28-30
18	Siri	Gunour	34-36
19	Dwari	Gunour	28-30
20	Sakatpura	Gunour	20-22
21	Jaswantpura	Gunour	22-24
22	Richhi	Pawai	70-75
23	Birasan	Pawai	68-70
24	Shahpurkhurd	Shahnagar	96-98
25	Sijhati	Shahnagar	94-96

1. No. of farm families selected per village :

4-6 Farm Families

2. No. of survey/PRA to be conducted:

One in each village

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: Soil Test Laboratory is not established at KVK Panna

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mini Soil Testing Kit	2	working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	20	0
Water Samples	0	0	0	0
Total	500	500	20	0

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Farmers Welfare and Agriculture Development, Panna	Technical Assistance
Department of Horticulture and Food Processing, Panna	Technical Assistance
Department of Veterinary Science, Panna	Technical Assistance
Department of Fisheries, Panna	Technical Assistance

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes

Name of Programme	Nature of linkage
Farmers Scientist Interface	Technical Assistance
Exhibition	Technical Assistance
Farmers Fair	Technical Assistance

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
National Horticulture Mission-MIDH	Production of Turmeric Planting Material and Training to Farmers

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes: Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Awareness Programme on Natural Farming	50 Farmers
February	Awareness Programme on Natural Farming	50 Farmers
March	Awareness Programme on Natural Farming	50 Farmers
April	Awareness Programme on Natural Farming	50 Farmers
May	Awareness Programme on Natural Farming	50 Farmers
June	Awareness Programme on Natural Farming	50 Farmers
July	Awareness Programme and Demonstration on Natural Farming	58 Farmers, 3.2 ha
August	Awareness Programme on Natural Farming	50 Farmers
September	Awareness Programme on Natural Farming	50 Farmers
October	Awareness Programme on Natural Farming	50 Farmers
November	Awareness Programme and Demonstration on Natural Farming	58 Farmers, 3.2 ha
December	Awareness Programme on Natural Farming	50 Farmers

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 6000 Sq. m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Blackgram	Kharif	IPU 2-43, Pratap Urd 1, Mukundra, Indira Urd Pratham	Line sowing of high yielding varieties along with balance application of fertilizers and appropriate plant protection measures	500
Greengram	Kharif	Shikha, MH 421		500
Soybean	Kharif	RVS 2001-4, JS 2034,JS 2069		500
Sesame	Kharif	TKG 55, TKG 306,TKG 308		500
Paddy	Kharif	JR 81		2000
Chickpea	Rabi	RVG 202, RVG 203,JG 12,JG 36		500
Lentil	Rabi	RVL 31, L4727, IPL 316		500
Linseed	Rabi	JLS 9, JLS 27, JLS 67, JLS 73, JLS 79, and T 397		500
Wheat	Rabi	JW 3288,JW 3382, GW322,HI 8759,HI 1500,		1000
Barley	Rabi	RD 2899, DWRB		1000
Mustard	Rabi	PM 30, PM 27, RVM 2		500
Greengram	Summer	Shikha, MH 421		1000
Blackgram	Summer	IPU 2-43, Pratap Urd 1, Mukundra, Indira Urd Pratham		1000

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost Unit	Production of Vermicompost	8	-
Azolla Unit	Production of Azolla	8	-
Mushroom Unit	Production of Oyster Mushroom	9	-
Poultry Unit	Rearing of Bundelkhandi, Narmada	7.5	-

	Nidhi and Kadaknath breeds		
Fisheries Unit	Fish farming of Mrigal, Katla and Rohu breeds	225	-
Nursery Unit	Production of seedlings of different vegetables, saplings etc.	20	-
Nutrition Garden Unit	Cultivation of different vegetables and fruits round the year	160	-
Medicinal Garden Unit	Cultivation of Medicinal Plants for demonstration purpose	32	-
Natural Farming Unit	Preparation of Bijamrit, Jivamrit, Ghanjivamrit, Neemastra etc.	16	-

ANNUAL ACTION PLAN 2023

KVK -Rewa

Year of sanction:2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr.A.K.Pandey		9425124291	pandeypadra@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. A.K.Pandey	Programme Coordinator	Agronomy	37000 - 67000	25.06.2010	2010	9425124291	pandeypadra@gmail.com	
2	Subject Matter Specialist	Sh. A.K.Patel	Scientist	Soil Science.	15600 - 39100	24.01.07	2007	8817052396	akhileshpateljnkvv@gmail.com	
3	Subject Matter Specialist	Dr. C.J.Singh	Scientist	Food Tech.	15600 - 39100	24.01.07	2007	9893064376	chander30@jnkvv.org	
4	Subject Matter Specialist	Dr. Kinjulck C. Singh	Scientist	Agri. Ext.	15600 - 39100	31.01.09	2009	9424606863	kinsingh19@jnkvv.org	
5	Subject Matter Specialist	Dr. Rajesh Singh	Scientist	Horticulture	15600 - 39100	24-01-07	2007	9424620540	rajeshsinghjnkvv@yahoo.com	
6	Subject Matter Specialist	Dr. Akhilesh Kumar	Scientist	Entomology	15600 - 39100	01.11.11	2011	9424744455	akhilivr@jnkvv.org	
7	Subject Matter Specialist	Dr. Smita Singh	Scientist	Agronomy	15600 - 39100	03.10.2017	2017	8120076669	sapanapat@jnkvv.org	
8	Programme Assistant	Dr. Sanjay Singh	Senior technical officer	Agri. Ext.	15600 - 39100	10.08.2010	2010	9893460049	sanjay1.705@rediffmail.com	
9	Computer Programmer / Programme Assistant	Shri M.K. Mishra	Technical officer	Computer Science	9300-34800	26.03.08	2008	9584125116	callmkmishra@gmail.com	

10	Farm Manager	Dr. K.S. Baghel	Technical officer	Plant Pathology	9300-34800	15.07.2011	2011	9977879360	ksbaghel@jnkvv.org	
11	Assistant								-	
12	Jr. Stenographer / Comp. Operator								-	
13	Driver	Shri. Shatrughan Verma	Driver	Driver Cum Mechanic	5200-20200	10.07.2008	2008	9907436578	kvk_rewa@rediffmail.com	
14	Driver								-	
15	Supporting staff								-	
16	Supporting staff	Shri Brijesh Sen	Peon		4400-7440	30.03.2005	2005	9424620437	senbrijesh695@gmail.com	

1.3 Total land with KVK (in ha):45

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2	Under Demonstration Units	1.0
3	Under Crops	40
4	Orchard/Agro-forestry	1.0
5	Others (specify)	1.5
Total		45

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2006	350q	-	-	-	Complete
2	Farmers Hostel	ICAR	2006	1306 -	- -	-	-	Complete
3	Staff Quarters (6)		-	- -	-	-	-	-
4	Demonstration Units (2)		-	-	-	-	-	-
5	Fencing	ICAR	2006	400m	-	-	-	Complete
6	Rain Water harvesting system		-	-	-	-	-	-
7	Threshing floor							
8	Farm godown		-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2014			Poor
Motor Cycle 2	2006			Poor
Bolero(Jeep)	2013		180314	Poor
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
6 Computer With	2005	-	Quite slow in working
UPS	- -	- -	-

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	June
2	October

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 3	Rice –Wheat ,Rice –Chickpea,Soybean-Linseed

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics	
		Soil type	Rain fall (In mm)
1	1- Chattisgarha Plains	Red & Yellow (Medium)	1200 to 1600
2	AES – 2 Northern Hill region of chattisgarh	Red & Yellow (Medium) Black skeletal	1200 to 1600
3	AES – 3 Kymore plateau & satpura hills	Mixed red and black soils (Medium)	1000 to 1400
4	AES – 4 Central Narmada valley	Deep black (Deep)	1200 to 1600
5	AES – 5 Vindhya plateau	Medium black & Deep black (Medium/Heavy)	1200 to 1400
6	AES – 6 Gird region	Alluial (Light)	800 to 1000
7	AES – 7 Bundelkhand	Mixed red and black (medium)	800 to 1400
8	AES – 8 Satpura plaueau	Shallow black (Medium)	1000 to 1200
9	AES – 9 Malwa plaueau	Medium black (Medium)	800 to 1200
10	AES – 10 Nimar Plains	Medium black (Medium)	800 to 1000
11	AES – 11 Jhabua hills	Medium black skeletal (Light/Medium)	800 to 1000

SWOT Analysis of each Agro-Ecological Situations of district

AES-3 (name) Kymore plateau & Satpura hills

Strength	Weakness	Opportunities	Threats
• 1000- 1400 mm/annum	• Scattered rainfall and prolong dry spell	• Agro- Horti Crops	• Poor fertility and low WHC

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	628.740
Forest	85.700
Waste Land	95.800
Other than cultivated area	-
Cultivable waste and alkaline land	-
Pastures	-
Bushes	-
Current Fallow	61200
Other Fallow	-
Agricultural Land	478400
Area Sown	383540
Kharif	324120
Rabi	314600
Zaid	20.500
Cropping Intensity	167

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	104.800
2	Well	8.300
3	Tube well	10.200
4	Ponds	32.000
5	Others	-

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Red & Yellow	Light Soil, Poor drainage,7.3	42598

2	Red & Yellow	Light Soil, Poor drainage,7.4	43602
3	Mixed	Good WHC,6.8	40784
4	Mixed	Good WHC,6.9	41792
5	Black	Rich Ca,Mg,pH,7.2	42563
6	Laterite	Rich Fe,Al,pH 7.4	44716
7	Mixed	Good WHC,pH 7.3	42119
8	Shallow black	Low whc,pH 7.2	39993
9	Shallow black	Low whc,pH 7.4	45373

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	231380	9870670.80	42.66
2	Maize	730	9928.00	13.60
3	Jowar	1930	35222.50	18.25
4	Bajra	2900	30363.00	10.47
5	Kodo & kutki	540	5383.80	9.97
6	Black Gram	34970	253532.50	7.25
7	Green Gram	16780	112426.00	6.70
8	Pigeon Pea	20760	284412.00	13.70
9	Sesame	15540	81585.00	5.25
10	Soybean	750	11475.00	15.30
11	Wheat	315400	13073330.00	41.45
12	Chickpea	20480	387481.60	18.92
13	Pea	2480	27428.80	11.06
14	Mustard	35940	593728.80	16.52
15	Lentil	7200	98352.00	13.66
16	Linseed	2940	25636.80	8.72
17	Barley	1150	22655.00	19.70

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	40.6	26.2	3.6
Feb, 22	0.0	33.0	4.6
Mar, 22	0.0	40.7	9.2
Apr, 22	0.0	43.5	15.6
May, 22	15.0	45.8	20.6
Jun, 22	69.4	44.3	21.6
July, 2022	216.6	37.4	22.6
Aug., 2022	339.8	27.2	22.8
Sept., 2022	86.8	28.6	22.2
Oct. 2022	112.4	30.2	14.0
Nov. 2022	0.0	26.6	9.2
Dec. 2022	0.0	25.0	6.0

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			

Crossbred/ Indigenous	794500	 MT.	 kg
Buffalo	93988	 MT.	 Kg
Sheep			
Crossbred/ Indigenous		 MT wool	 Kg
Goats	190386	 MT	 Kg
Pigs Crossbred/ Indigenous	26540	---	---
Rabbits			
Poultry			
Hens	184500	 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Rewa	Rewa	Nipaniya,karahiya,Reethi	Rice, Wheat, Black gram, Chickpea, Pigeonpea Dairy	YM resistant and excessive moisture tolerant variety of Black gram, Green gram and Soybean are very much needed	Improved farming practices, INM, IWM, IPM, Breed improvement.
2.	Raipur Karchuliyan	Raipur karchulian	Satgard,Devra,Delhi,Methori	Rice, Wheat, Black gram, Chickpea, Dairy	Wilt resistant variety of lentil is required, Suitable variety of chickpea which shows excellent resistant against dry root rot disease is required	Improved farming practices, INM, IWM, IPM,
3.	Sirmour	Sirmour	Godha, Tilkhan, Khair	Rice, Wheat, Black gram, Chickpea, Dairy	Weed problem in direct seeded rice and transplanted rice	Improved farming practices, INM, IWM, IPM, Breed improvement
4.	Semariya	Sirmour	Chachai, Baron	Wheat, Black gram, Chickpea, Dairy	Weed Problem in Blackgram	Improved farming practices, INM, IWM, IPM,

Priority / Thrust areas

S. No.	Particulars
1.	Seed production programme for major crops
2.	Use of INM in crops and vegetables
3.	Fruit plant propagation
4.	Use of IPM management in crops and vegetables
5.	Rain water management and soil conservation

6.	Live stock dairy management for rural people
7.	Alternate land use system with agro forestry and medicinal plant
8.	Strengthening with skill up gradation of women in agriculture
9.	Rural employment generation training for economic upliftment
10.	Poultry farming system
11.	Establishment of agro forestry system
12.	nursery management
13.	Cultivation of fruit plants
14.	Cultivation of tuber crops
15.	Cultivation of spices
16.	Cultivation of off season vegetables
17.	Intercropping
18.	Organic farming
19.	Information communication Technology
20.	Soil& water conservation

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
28	452	112 & 350	112 & 350

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
123	3704	68	2221

Seed Production (Qtl.)	Planting material (Nos.)
1030	439

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop / Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Natural Farming	Rice	Insect pest and disease management	Assessment of ITK based Integrated Pest Management against major diseases and insect pests of Rice					
2	ITK	Tomato	Incidence of damping off	Assessment of efficacy of <i>Cynodon dactylon</i> (Doob) leaf extract against damping off and root rot disease in Tomato.					
3	Organic farming	Rice	Excess use of chemical	Assessment of rice pest and disease management in organic ecosystem					
4	IPM	Lentil	Heavy incidence of wilt disease	Assessment of Integrated management of wilt disease in lentil organically					

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	1	Improved	Rice	Labour cost	Assessment	-	Strat	Awareness	Awareness for direct

[illegible]

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
WM	03	01								
ICM	02	03	04							
IDM	02	02	01							
IPM		01	02							
NF										
VE	02	02	02		04					
ITK					01					
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Detailed Information about OFT:

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of indigenous organic panchagavya for sustaining rice productivity
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Inorganic fertilizer alone cannot sustain the soil fertility and productivity
Thematic area:	R- W and Organic farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 - No use of indigenous organic panchagavya
T2 –Recommended Practice-	T2 - RDF 120:80:40 Kg/ha
T3- Recommended Practice-	T3 - RDF 120:80:40 Kg/ha + 3 spray of panchagavya 15,30 and 45 DAT
Date of sowing:	June
Date of harvesting:	November
Source of technology:	BHU 2019
Characteristics of technology:	Use of indigenous product i.e. panchagavya in combination with fertilizer can be inferred to improve soil health, ascertain high productivity, profitability and sustainability in rice.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of Kodo millet variety in rainfed condition
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	The productivity of Kodo millet is very low due to use of Kodo traditional variety
Thematic area:	Rainfed
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 - Kodo traditional variety
T2 –Recommended Practice-	T2 – JK 155
T3- Recommended Practice-	T3 – JK 137
Date of sowing:	July
Date of harvesting:	November
Source of technology:	JNKVV 2016
Characteristics of technology:	Introduce new varieties of Kodo millet
Name of Crop/Enterprises:	Kodo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of brown manuring and herbicide under direct seeded rice
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Rice due to no use of brown manuring and appropriate herbicide
Thematic area:	Rainfed
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – No use brown manuring and herbicide
T2 –Recommended Practice-	T2 – Brown manuring
T3- Recommended Practice-	T3 - Brown manuring (5 WAS) + halosulfuron-methyl 67.5 g/ha
Date of sowing:	July
Date of harvesting:	November
Source of technology:	PAU 2016
Characteristics of technology:	Looming water crises and increasing labor costs are the challenges

	being faced by the tice growers in the traditional transplanting system. Direst seeding could be an attractive alternative to the traditional transplanting culture. The adaptation of DSR in paddy cultivation is expected to reduce the water use by 30% and 60 % labour cost as it lacks raising to paddy nursery, transplanting, puddling and maintence of standing water.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of herbicide (Sulphosulfuron + Metsulfuron) in wheat crop
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to late sowing of Rice wheat cropping system and no use of appropriate herbicide
Thematic area:	
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 -No use of herbicide
T2 –Recommended Practice-	T2 – Sulphosulfuron
T3- Recommended Practice-	T3 - (Sulphosulfuron + Metsulfuron) @ 60 g/ha at 25-30 Days after sowing
Date of sowing:	July
Date of harvesting:	November
Source of technology:	ISWS 2012
Characteristics of technology:	Good control of Narrow and Broad leaves of weeds
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of improved Lentil varieties RVL 31 and IPL 316 under irrigated condition
Year/Season:	2023/Kharif
Farming situation:	Irrigated

Problem diagnosis:	Low yield of Lentil due old variety L 4717
Thematic area:	
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 - L 4717 (Control)
T2 –Recommended Practice-	T2 - RVL 31 HYV with Seed treatment with Trichoderma viride @5g/Kg + inoculated with Rhizobium and PSB@10ml/kg seed +RD of fertilizer (20:50:20 NPK kg/ ha) + Imidacloprid 17.6 SL applied for pest management
T3- Recommended Practice-	T3- IPL 316 HYV with Seed treatment with Trichoderma viride @5g/Kg + inoculated with Rhizobium and PSB@10ml/kg seed +RD of fertilizer (20:50:20 NPK kg/ ha) + Imidacloprid 17.6 SL applied for pest management
Date of sowing:	October
Date of harvesting:	March
Source of technology:	II PR 2018
Characteristics of technology:	High yielding varieties
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of ITK based Integrated Pest Management against major diseases and insect pests of Rice
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Greater incidence of blast, sheath blight, stem borer, brown plant hopper etc causes yield reduction up to 70%, affected area 2.54 lac ha area
Thematic area:	PLP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Application of any available fungicide and insecticide only after disease incidence and insect pest infestation.

T2 –Recommended Practice-	T2 –Seed treatment by Tricyclazole @2g/kg + Foliar spray of Trifloxystrobin 25%+ Tebuconazole 50% @ 200 gm/ha followed by application of Fipronil 5% @1000 ml/ ha at tillering and panicle initiation stage.
T3- Recommended Practice-	T3 - Seed treatment by Beejamrut (1 kg. cowdung of local cow, 1 liter of cowurine, 50 gm. quick lime, 10 gm. asafetida ,melt all these in 20 liters ofwater at night.) Foliar spray by Panchgavya:- Take 10 kg. cowdung of a pure local breed, 5 liters of cowurine, 2 kg. black jaggery, 2 kg. powder of any pulse, 1kg. soil (the soil from the borders of the farm/ or from the Dam-site) and 200 liters of water. Keep all the above-mentioned materials in a barrel for 2 to 7 days under shadow.
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV 2016 & Patanjali Haridwar.
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of efficacy of <i>Cynodon dactylon</i> (Doob) leaf extract against damping off and root rot disease in Tomato.
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	High mortality of seedling at nursery
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- No use of any bio agent and flat bed nursery
T2 –Recommended Practice-	T2- Soil application of FYM enriched with <i>Trichoderma viride</i> @ 1 gm/m ² of nursery bed and seed treatment @10gm/kg of seed and sowing in raised nursery bed.
T3- Recommended Practice-	T3- <i>Cynodon dactylon</i> dried powder @2 kg mix in 10 lit of water and placed in an air tight mud pot and left undisturbed for 24 hrs. Filter the mixture twice and diluted equal quantity of water and apply at seedling stage.
Date of sowing:	-

Date of harvesting:	-
Source of technology:	Cross-Sectoral Validation of Indigenous Technical Knowledge in Agriculture. Document 4. Compiled by P. Das ,P.S. Arya, S.K. Das ,M. Geetha Rani A. Mishra , L.R. Verma ,R.P. Singh Ratan' D.P. Ray , G. Subba Reddy. ITK Code-170
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of rice pest and disease management in organic ecosystem.
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Heavy use of chemical pesticides to combat incidence of insect pest and disease in rice crop, affected area more than 2.54 lac ha.
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Heavy use of chemical pesticides against rice insect pest and diseases.
T2 –Recommended Practice-	T 2- Mechanical Control Method:1.Rice stubble management to check the incidence of stem borer and gall midge.2. Clipping up seedling tips up to 2 inches prior to transplanting to remove the egg mass of stem borer. 3.Flooding the nursery to manage army worm. 4. A rope may be passed over the young crop to dislodge case worm larvae. Cultural Control Method: 1.Avoid close planting for managing BPH and leaf folder. 2. After every 5-6 m leave spacing of 75 cm for managing hoppers. 3. Controlled irrigation by intermittent draining (BPH). 4. Remove weeds on bunds that harbour BPH, gall midge, GLH, leaf folder etc. 5. Grow green gram/ Soybean on bunds to attract natural enemies.
T3- Recommended Practice-	T 3- Biological Control Method: 1. Seed treatment with Pseudomonas

	florescence @10 ml/kg followed by foliar application @5 ml/lit for managing blast, sheath blight and brown spot. 2.Crop observed from 20DAT if egg of stem borer are observed on leaf tips and leaf folder egg on veins then release Trichogramma chilonis (for leaf folder) and T. japonicumc (for stem borer) @1,00,000/ha. 3. Spray Bt@ 1 kg/ha when stem borer and leaf folder cross ETL. Botanical Control: Spray Neem seed kernel extract, neem oil or pongamia oil (5%) on need based at 15 days interval (for managing hoppers).
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Pest and Disease management in organic ecosystem.AICRP on cropping system TNAU Coimbatore. Project Directorate for Cropping System Research, Modipuram- Meerut.
Characteristics of technology:	-
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated management of wilt disease in lentil organically
Year/Season:	2023
Farming situation:	Rainfed
Problem diagnosis:	Heavy incidence of wilt disease in lentil affected area 8000-10,000 ha, 100% yield reduction
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T 1- Non adoption of plant protection measures.
T2 –Recommended Practice-	T 2 - Seed treatment with Tebuconazole 2% DS
T3- Recommended Practice-	T 3 - Seed treatment with Psudomonas florescence+ application of Zn and Mn salt at 80 ppm concentration on presoaked seed.+ Late sowing at proper depth 10-12 cm.
Date of sowing:	-

Date of harvesting:	-
Source of technology:	Anshul Arya and KPS Kushwaha. Evaluation of chemicals for the management of lentil wilt, caused by <i>Fusarium oxysporum</i> f.sp. <i>lentis</i> . <i>Journal of Pharmacognosy and Phytochemistry</i> 2018; 7(5): 2320-2323.
Characteristics of technology:	-
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated wilt disease with organic management in Chickpea
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Due to damage in chickpea reduce yield up to 35-45%
Thematic area:	PLP/Organic
No of trials:	10
No. of farmers involved	25
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of organic fungicide
T2 –Recommended Practice-	T2- Seed treatment with Carboxin 37.5% + Thiram 37.5% (3g/kg) + Soil treatment with <i>T. viride</i> @ 5 lit/ha multiplied in 100 kg FYM
T3- Recommended Practice-	T3 -Seed treatment with Carbendazim 12% +Mancozeb 63% WP 2g/kg of seed and soil application of <i>T. viride</i> @ 5 lit/ha multiplied in 100 kg vermicompost
Date of sowing:	15Nov 2023
Date of harvesting:	05 April 2022
Source of technology:	JNKVV-2007
Characteristics of technology:	Seed treatment and soil application are very effective and reduce the damage
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM modules for the organic management of Tobacco caterpillar in Black gram
Year/Season:	2023/Kharif
Farming situation:	Irrigated

Problem diagnosis:	Low yield due to severe insect pests infestation (35-40%)
Thematic area:	PLP/Organic
No of trials:	05
No. of farmers involved	20
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of IPM modules
T2 –Recommended Practice-	1. Deep summer ploughing 2. Use Pheromone trap 5-6 per ha for monitoring 3. Use light trap 6. Application of Bt @ 1000 g/ha
T3- Recommended Practice-	1. Deep summer ploughing 2. Use Pheromone trap 5-6 per ha for monitoring 3. Use of light trap 6. Application of Bt @ 1000 g/ha 4. Spraying of Spinosad 45 SC @ 200ml/ha at ETL level
Date of sowing:	25.06.23
Date of harvesting:	15.09.23
Source of technology:	NCIPM 2014
Characteristics of technology:	Effective and much safer IPM module with organic compound
Name of Crop/Enterprises:	Black gram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Zinc and liquid bio fertilizer Azospirillum in Rice
Year/Season:	Kharif, 2022
Farming situation:	Irrigated
Problem diagnosis:	Low yield of rice: no use of micro nutrient Zinc and liquid bio fertilizer
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	NPKZn, 9:23:0:0 kg/ha
T2 –Recommended Practice-	NPKZn, 18:46:0:20 kg/ha + seed treatment With Azospirillum @ 5ml/kg seed
T3- Recommended Practice-	NPKZn, 90:60:0:20 kg/ha + muriate of potash @ 40kg/ha + seed treatment with Azospirillum @ 5ml/kg seed+ Zn @20kg/ha
Date of sowing:	07.07.2022
Date of harvesting:	10.10.2022
Source of technology:	JNKVV, 2017
Characteristics of technology:	Nutrient management on Soil test value
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	Due to its low cost and organic in nature farmers were very keen to adopt this technology.

Recommendations for Deptt. Personnel	Use of balance fertilizer to enhance crop yield and quality
Feedback	Availability of input at timely, So technology should be adopted

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of sulphur & Liquid bio fertilizer PSB in pigeon pea
Year/Season:	Kharif, 2022
Farming situation:	Rain fed
Problem diagnosis:	Low yield of pigeonpea: no use of micro nutrient sulphur and liquid bio fertilizer
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	NPKS , 9:23:0:0 kg/ha
T2 –Recommended Practice-	NPKS, 18:46:0:25 kg/ha + seed treatment with PSB @ 5ml/kg seed
T3- Recommended Practice-	NPKS, 18:46:0:20 kg/ha + muriate of potash @ 40kg/ha + seed treatment with PSB @ 5ml/kg seed+sulphur@ 25 kg/ha
Date of sowing:	13.07.2022
Date of harvesting:	Awaited
Source of technology:	IGKV, 2017
Characteristics of technology:	Integrated nutrient management on soil test value
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Vermicompost and Azotobacter in Wheat
Year/Season:	Rabi, 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat; no use of micro nutrients and liquid bio fertilizers
Thematic area:	INM
No of trials:	05

No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	NPK , 9:23:0 kg/ha
T2 –Recommended Practice-	NPK, 18:46:0 kg/ha + seed treatment + PSB @ 500ml/ha
T3- Recommended Practice-	NPK, 18:46:0 kg/ha + muriate of potash @ 40kg/ha +Soil application of Azotobacter @ of 2.5 liter/ha +vermicompost@ 3 ton/ha
Date of sowing:	Oct. 2023
Date of harvesting:	March 2024
Source of technology:	JNKVV, 2018
Characteristics of technology:	Improved microbial activity and enhance phosphorus availability
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of sulphur and liquid bio fertilizer in mustard
Year/Season:	Rabi, 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of mustard: no use of micro nutrient sulphur and liquid bio fertilizer
Thematic area:	Soil fertility management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	9:23:0:0 NPKS kg/ha
T2 –Recommended Practice-	18:46:0:0 NPKS kg/ha + 2 ton vermicompost per ha
T3- Recommended Practice-	18:46:20:25 NPKS kg/ha + 2 ton vermicompost per ha + Soil application Sulphur @ 25 kg/ha.+ Liquid bio fertilizer Azotobacter@2.5liter/ha.as soil application
Date of sowing:	Sep. 2023
Date of harvesting:	Feb. 2024
Source of technology:	JNKVV, 2016
Characteristics of technology:	Micro nutrient sulphur increase quality and quantity of crops
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

Title	Assessment of adoption of Low cost input Management technologies for DFI (II Year)
Season & Year	2023
Problem identified	Decreasing returns due to increasing input cost in crop production.
Thematic Area	CBD
Farming situation	All
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	90

Results / findings

Performance indicators/ parameters	Unit/ details

Title	Assessment of awareness and adoption of low cost water harvesting technology (II Year)
Season & Year	2023
Problem identified	Decreasing water table due to increasing use of water in agriculture
Thematic Area	NRM and CBD
Farming situation	All
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	90

Results / findings

Performance indicators/ parameters	Unit/ details

Title	Assessment of you tube videos in Dissemination of specific and Targetted Technology (II Year)
Season & Year	2023
Problem identified	Delay and inaccuracy in information dissemination
Thematic Area	ICT
Farming situation	All
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	90

Results / findings

Performance indicators/ parameters	Unit/ details

Title	Comparative Assessment of knowledge Gap and adoption gap regarding soil health card based fertilizer application among FLD and Non FLD farmers. (I Year)
Season & Year	2023
Problem identified	Low adoption of SHC recommondation
Thematic Area	CBD
Farming situation	All
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	200

Results / findings

Performance indicators/ parameters	Unit/ details

Title	Assessment of adoption pattern of natural farming
Season & Year	2023
Problem identified	Deterioration of soil fertility & productivity and unawareness regarding natural farming
Thematic Area	Irrigated & rainfed both
Farming situation	Natural farming – Natural resource management
Name of Technology Intervention under study	T1 Use of low quality cow dung (Over mature) T2 Components of natural farming – Beejamrit , Jeewamrit, Neemastra, Organic mulch
Farmers Practice	Use of very low amount of input along with low quality of organic inputs
No. of replication (Farmers)	25

Title	Assessment of adoption of millets cultivation among FPO members.
Season & Year	2023
Problem identified	Low income due to resource poor and low productive land and lack of adoption of millets cultivation
Thematic Area	value addition
Farming situation	Rain fed
Name of Technology Intervention under study	T1. Traditional varieties with very less amount of technological inputs T2. Improved varieties of millets and processing & value addition techniques
Farmers Practice	Local varieties of small millets and no use of value addition technology
No. of replication (Farmers)	25

Title	Assessment of performance of FPO members in organic inputs production and marketing
Season & Year	2023
Problem identified	Unorganized farming community and unawareness regarding organic farming
Thematic Area	Organic input production with group approach
Farming situation	Rainfed and irrigated both

Name of Technology Intervention under study	T1 Use of only low quality of fym T2 Organic input production, Vermi compost, Beejamrit, Azola, value added compost, Cow urine phenyl etc.
Farmers Practice	No use of organic inputs and its marketing
No. of replication (Farmers)	25

Title	Assessment of convergence model for promotion of diversified livelihood activities for self help groups
Season & Year	2023
Problem identified	Dependency of single occupation with low income and underutilized land and other resources
Thematic Area	Diversified farming system along with allied income generating activities
Farming situation	Irrigated and rainfed both
Name of Technology Intervention under study	T1 Practicing single occupation with low income T2. . Convergence approach for promotion of diversified livelihood activities, defining role and responsibilities of farmers/Landless/farm women and rural youth for diversifies livelihood activities
Farmers Practice	Practicing single occupation and very poor linkage with Govt. agencies, NGOs and other stake holders
No. of replication (Farmers)	25

Information about Home Science OFT:

Title of on-farm trial:	Assessment of suitability of Ragi to improve the nutrition status of the farm family
Year/Season:	2023
Problem diagnosis:	Low fiber and low calcium diet affecting digestion and cleaning of stomach.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/	Assessment

Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	(Farmer’s Practice): Rice Cultivation.
T2 –Recommended Practice-	(Improved Practice): Improved Variety of Ragi
Source of technology:	AICRP in Millet, Rewa Center, JNKVV.
Characteristics of technology:	
Name of Crop/Enterprises:	Nutri Cereal/ Millet - Ragi
Farming situation:	Rainfed.
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Title of on-farm trial:	Assessment of suitability of Barley to improve the nutrition status of the farm family
Year/Season:	2023
Problem diagnosis:	Low fiber content and low vitamins and minerals.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Farmer’s Practice): Rice Cultivation.
T2 –Recommended Practice-	(Improved Practice): Improved Variety of Barley.
Source of technology:	AICRP in Millet, Rewa Center, JNKVV.
Characteristics of technology:	
Name of Crop/Enterprises:	Nutri Cereal/ Millet - Barley
Farming situation:	Rabi (Irrigated).
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

Title of on-farm trial:	Assessment of suitability of Kodo to improve the nutrition status of the farm family
Year/Season:	2023
Problem diagnosis:	Low fiber content and low vitamins and minerals.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	(Farmer’s Practice): Kodo Cultivation.
T2 –Recommended Practice-	(Improved Practice): Improved Variety of Kodo.
Source of technology:	AICRP in Millet, Rewa Center, JNKVV.
Characteristics of technology:	
Name of Crop/Enterprises:	Nutri Cereal/ Millet – Kodo.
Farming situation:	Rabi (Irrigated).
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Title of on-farm trial:	Assessment of Nutritional Enhancement of Chapatti of Preschool Children through Fortification of Kodo flour, Drumstick leaf and Curry Leaf Powder / Leafy Vegetable Powder to Wheat Flour) and Its Acceptability Test.
Year/Season:	2023
Problem diagnosis:	Poor nutrition of children and low acceptability of fortified food.

Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security.
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	(Farmer’s Practice): Unfortified wheat chapatti
T2 –Recommended Practice-	(Improved Practice): Fortified wheat chapatti.
Source of technology:	TNAU (2016)
Characteristics of technology:	
Name of Crop/Enterprises:	Nutritional Enhancement of Chapatti
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Kodo millet	ICM	HYV JK 137, seed treatment with carbendazim@ 2.5 g/kg seed+ <i>Azospirillum brasilense</i> and <i>Aspergillus awamuri</i> @ 25g/kg seed, STV based nutrient management (NPK kg/ha 40:20:0 (Basal 20:20:0 + Azotobacter 4kg/ha remaining 20 kg N-30-40 DAS, Line method of sowing, IWM and IPM	Seed	Kharif/2023	04	10	Seed yield q/ha and B:C ratio
2	Sesame	ICM	HYV TKG 308,Seed treatment with carbendazim @ 2 gm /Kg seeds+ PSB Culture @ 5 gm / Kg seeds + Imidacloprid@ 1 ml/ lit water for pest management	Seed	Kharif/2023	04	10	Seed yield q/ha and B:C ratio
3	Barley	ICM	HYV DWRB 137, Seed treatment with Vitavax 75 WP@2.5 g/kg- seed + 60:30:20 kg/ha NPK, 1/3rd quantity of N with full dose of P and K at the time of sowing and remaining 2/3rd at first node stage i.e. 35-40 DAS and weed management by pinoxaden 5.0EC@ 100ml/ha STV based INM, line sowing	Seed	Kharif/2023	04	10	Seed yield q/ha and B:C ratio
4	Mustard	ICM	HYV Giriraj, Line sowing(recommended dose of fertilizer: 80 kg N, 40 kg P ₂ O ₅	Seed	Kharif/2023	04	10	Seed yield q/ha and B:C ratio

			and 40 kg S/ha, seed inoculated with bio-fertilizers <i>Azotobactor</i> and PSB culture), weed management (Pendimethalin @ 1.0 l/ha) and Imidaclopride for insect management					
5	Onion	PLP/Organic	Performance of IPM modules for the management of onion thrips, <i>Thrips tabaci</i> L.	Yellow sticky trap, Neem oil and insecticide	Rabi/2023-24	02	05	1. No. of thrips/Plant 2. Yield (Q/ha)) 3. Benefit Cost Ratio
6		PLP/Natural	Performance of Honeybee pollination in natural production of Mustard crop	Bee box with honey bees	Rabi/2023-24	0.5	02	Yield (q/ha) and B:C ratio
7		PLP/Organic	Performance of leaf extract of Tobacco for the organic management shoot & fruit borer in Brinjal	Tobacco leaves	Kharif/2023	01	05	1. No. of damage fruits(%) 2. Yield (q/ha)) 3. Benefit Cost Ratio
8		PLP	Performance of IPM modules for the management of BPH in Rice	Pheromone trap, Light trap and insecticide	Kharif/2023	02	05	1. No. of insects/hills 2. Yield (q/ha) 3. Benefit Cost Ratio
9	Maize	SFM	Performance of nutrient management and Azospirillum in maize crops	Liquid bio fertilizer	Khafir-2023	01	05	Yield, Net income and B:C ratio
10	Rice	INM	Performance of integrated nutrient management in rice	Liquid bio fertilizer	Kharif-2023	01	05	Yield, Net income and B:C ratio
11	Mustard	SFM	Performance of sulphur, vermin compost and potash solubilizing bacteria in mustard crop	potash solubilizing bacteria	Rabi-2022-23	01	05	Yield, Net income and B:C ratio
12	Wheat	INM	Performance of integrated nutrient management and vermin compost in wheat	Vermi compost	Rabi 2022-23	01	05	Yield, Net income, number of tillers per plant and B:C ratio
13		NRM	Performance of Wall Paintings for Improving Technical Knowledge of Farmers regarding	Technical massages on walls	2023		90	Awareness, Retention of information and

			NRM (1 Year)					Improvement in knowledge
14		Nutri Sensitive Agriculture	Enhanced volume and increased variety of seasonal vegetables with high yielding varietal and hybrid seeds with the purpose of food and nutritional supplementation to the immediate family as well as to the neighboring families along with income generation.	High Yielding Varietal Seeds and Hybrid Seeds	2023	200 sqm .	10	-
15		Nutri Sensitive Agriculture	Enhanced volume and increased variety of seasonal vegetables with high yielding varietal and hybrid seeds with the purpose of food and nutritional supplementation to the immediate family as well as to the neighboring families along with income generation.	High Yielding Varietal Seeds and Hybrid Seeds	2023	200 sqm .	10	-
16		Nutri Sensitive Agriculture	Enhanced volume and increased variety of seasonal fruits with improved varieties suitable for nutritional kitchen garden, with the purpose of supplementation vitamins and minerals as well as health care.	High Yielding Varietal and Hybrid Plants .	2023	250 sqm .	10	-
17		Income Generation and Nutri Sensitive Agriculture	Oyster mushroom production by farm women for home consumption and hence cost cutting in family food budget and ensuring food security of the family.	Oyster Mushroom Seed and Formaldehyde for disinfecting paddy straw.	2023			
18		Income Generation	Improved variety of marigold with big	Improved variety of	2023	1000	10	Income Generation.

			sized and attractive colour fetches good market price and helps women in generating income through its cultivation and marketing.	marigold.		sqm		(Rs. and p.)
19	Rice	IDM	Performance of IDM module for the management of false smut disease in Rice. (Early transplanting by 10 days+ Weed management especially Digiteria and Echinocloa sp.+ Low nitrogeneous fertilizer dose + Two spray at pre-flowering and flowering stage of Propiconazole (13.9 %) + Difenconazole (13.9%)	Propiconazole (13.9 %) + Difenconazole (13.9%)	2023	4	10	Assess grain quality apart from other parmeters
20	Mushroom	Mushroom Production	Promotion of Oyster mushroom cultivation as an additional source of income for landless farmers. (Promotion of round the year mushroom cultivation. <i>Paddy straw mushroom</i> followed by <i>Agaricus musrhoom</i> and <i>Oyster mushroom</i>.)	Spawn	2023		10	Economic analysis
21	Wheat	IDM	Performance of IDM module of flag smut in wheat. (Seed Treatment with Tebuconazole 2 DS followed by application of Tebuconazole @1.25 ml/lit makes filed in wet condition as soon as disease incidence observed.)	Tebuconazole 2% DS, Tebuconazole 25.9% EC	2023	04	10	Disease incidence percent, No of infected panicle/sqm ., Yield parameters

22	Black gram	IDM	Management of MYMV in black gram. (Use tolerant variety IPU 94-1+Seed treatment with Thiomethoxam 30% FS followed by early spray of Imidacloprid 17.8 SL)	Thiomethoxam 30% FS, Imidacloprid 17.8 SL	Kharif 2023	04	10	No of infected plant/ sqm, PDI, Yield Parameters
23								

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	August, September, December, January	1000
2	Farmers Training	15	Whole year	500
3	Media coverage	12	Round the year	Mass
4	Training for extension functionaries	04	July, October	100

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Mushroom cultivation	Pleurotus spp	Whole year	10		Spawn	Yield		

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	ICM	Raised bed	Seed, Vermicom post	Kharif/2023	20	50	Seed yield q/ha and B:C ratio
2	Pigeonpea	ICM	Raised bed	Seed, Vermicom post	Kharif/2023	20	50	Seed yield q/ha and B:C ratio
3	Soybean	ICM	Raised bed	Seed, Vermicom post	Kharif/2023	10	25	Seed yield q/ha and B:C ratio
4.	Sesame	ICM	Line sowing	Seed, Vermicom post	Kharif/2023	20	50	Seed yield q/ha and B:C ratio
5.	Lentil	ICM	Raised bed	Seed, Vermicom post	Rabi/2023	20	50	Seed yield q/ha and B:C ratio
6	Chickpea	ICM	Line sowing	Seed, Vermicom post	Rabi/2023	20	50	Seed yield q/ha and B:C ratio
7.	Linseed	ICM	Line sowing	Seed, Vermicom post	Rabi/2023	20	50	Seed yield q/ha and B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	October and November	115
2	Farmers Training	15	June to March	328
3	Media coverage	Mass	Whole year	Mass
4	Training for extension functionaries	04	June and October	95

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	4	1	13	0	12	12	0	12	25
Resource Conservation Technologies									
Integrated Farming									
Water management	2	1	24	0	24	1	0	01	25
Seed production	2	1	24	0	24	1	0	01	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Women and child care									
Total									
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	2	1	24	0	24	1	0		01
Integrated Disease Management	2	1	24	0	24	1	0		01
Bio-control of pests and diseases	2	1	24	0	24	1	0		01
Production of bio control agents and bio	2	1	24	0	24	1	0		01

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST			Grand Total	
			Male	Female		Total	Male	Female			Total
pesticides											
Total											
VIII Fisheries											
Integrated fish farming											
Total											
IX Production of Inputs at site											
Vermi-compost production	2	1	24	0	24	1	0	01			25
Organic manures production	2	1	24	0	24	1	0	01			25
Total											
X Capacity Building and Group Dynamics											
Leadership development	2	1	24	0	24	1	0	01			25
Group dynamics	2	1	24	0	24	1	0	01			25
Formation and Management of SHGs	2	1	24	0	24	1	0	01			25
Mobilization of social capital	2	1	24	0	24	1	0	01			25
Entrepreneurial development of farmers/youths	2	1	24	0	24	1	0	01			25
WTO and IPR issues	2	1	24	0	24	1	0	01			25
Total											
XI Agro-forestry											
Total											
XII Others (Pl. Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production	2	1	24	0	24	1	0	01			25
Bee-keeping	2	1	24	0	24	1	0	01			25
Seed production											
Planting material production											
Vermi-culture											
Value addition											
Sheep and goat rearing											
Para extension workers											
TOTAL											
(C) Extension Personnel											
Productivity enhancement in field crops	2	1	24	0	24	1	0	01			25
Integrated Pest Management	2	1	24	0	24	1	0	01			25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Integrated Nutrient management	2	1	24	0	24	1	0	01			25
Protected cultivation technology	2	1	24	0	24	1	0	01			25
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production											
Production and use of organic inputs	2	1	24	0	24	1	0	01			25
Gender mainstreaming through SHGs	2	1	24	0	24	1	0	01			25
Any other (Pl. Specify)											
TOTAL											

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	1	10	5	15	10	5	15	30
Resource Conservation Technologies	2	1	10	5	15	10	5	15	30
Cropping Systems	2	1	10	5	15	10	5	15	30
Crop Diversification	2	1	10	5	15	10	5	15	30
Integrated Farming	2	1	10	5	15	10	5	15	30
Water management	2	1	10	5	15	10	5	15	30
Seed production	2	1	10	5	15	10	5	15	30
Nursery management	2	1	10	5	15	10	5	15	30
Integrated Crop Management									
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	2	1	10	5	15	10	5	15	30
Export potential vegetables	2	1	10	5	15	10	5	15	30
Protective cultivation (Green Houses, Shade	2	1	10	5	15	10	5	15	30

Net etc.)									
b) Fruits									
Cultivation of Fruit	2	1	10	5	15	10	5	15	30
Management of young plants/orchards	2	1	10	5	15	10	5	15	30
Export potential of ornamental plants	2	1	10	5	15	10	5	15	30
Propagation techniques of Ornamental Plants	2	1	10	5	15	10	5	15	30
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	2	1	10	5	15	10	5	15	30
Soil and Water Conservation	2	1	10	5	15	10	5	15	30
Integrated Nutrient Management	2	1	10	5	15	10	5	15	30
Production and use of organic inputs	2	1	10	5	15	10	5	15	30
Management of Problematic soils	2	1	10	5	15	10	5	15	30
Micro nutrient deficiency in crops	2	1	10	5	15	10	5	15	30
Nutrient Use Efficiency	2	1	10	5	15	10	5	15	30
Soil and Water Testing	2	1	10	5	15	10	5	15	30
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	1	10	5	15	10	5	15	30
Design and development of low/minimum cost diet	2	1	10	5	15	10	5	15	30
Designing and development for high nutrient efficiency diet	2	1	10	5	15	10	5	15	30
Minimization of nutrient loss in processing	2	1	10	5	15	10	5	15	30
Gender mainstreaming through SHGs	2	1	10	5	15	10	5	15	30
Storage loss minimization	2	1	10	5	15	10	5	15	30

1. On Campus

[illegible]

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

Livestock production

Home Science

Plant Protection

Rural Youth

Small Mushroom Growers

25

5

5

10

10

5

15

25

Agriculture Extension (Capacity Building and Group Dynamics)

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	JR 206	500
	Wheat	GW 322	500
OILSEEDS			
PULSES	Black gram	IPU 94-1	50
	Chickpea	JG 16	75
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3	Mushroom Spawn			200
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				

BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
April – June	Quarterly	1000
July - Sept	Quarterly	1000
Oct – Dec	Quarterly	1000
Jan - March	Quarterly	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1			
2			
3			
4			
5			
6			
7			
8			

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM**a) Is ATMA implemented in your district**

Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production

ANNUAL ACTION PLAN 2023

KVK_Sagar-I

Year of sanction: **01/01/2004**

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. K. S. Yadav	Bamhori seed Farm lehadara Naka, Sagar	9425854876	Kvksagar @rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. N o.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. K. S. Yadav	Sr. Scientist & Head	Horticulture	37400-67000	15.05.2012	15.05.2012	9425854876	ksyadav20@rediffmail.com	
2	Subject Matter Specialist	Dr. Mamta Singh	Scientist	Plant Breeding & Genetics	15600-39100	13.02.2007	13.02.2007	9424437033	mamta.jnkv@gmail.com	
3	Subject Matter Specialist	Dr. Vaishali Sharma	Scientist	Soil Science	15600-39100	29.09.2017	29.09.2017	9424675016	vaishali9488@gmail.com	
4	Subject Matter Specialist	-	-	-	--	--	--	--	--	--
5	Subject Matter Specialist	-	-	-	--	--	--	--	--	--
6	Subject Matter Specialist	-	-	-	--	--	--	--	--	--
7	Subject Matter Specialist	-	-	-	--	--	--	--	--	--

8	Programme Assistant	Shri Dharmendra Pratap Singh	Technical Officer	LPM	9300 - 34800	12.10.2011	2021	8989157368	Dharmendrasingh507@gmail.com	
9	Computer Programmer/Programme Assistant	Smt. Priya Choukase	Programme Assistant	Computer	9300 - 34800					Attach other places
10	Farm Manager	Shri Mayank Mehara	Programme Assistant	Food Science	9300 - 34800					Attach other places
11	Assistant	Miss Nikita Rajput	Stenographer Grade-III (Hindi)	-	5200-20200+31400 basic	24.08.2019	23.03.2022	9826589646	knikita.rajput@gmail.com	
12	Jr. Stenographer / Comp. Operator	Shri Yogendra Baderiya	Stenographer	-	5200-20200	09.10.2017	09.10.2017	8827184481	yogendrabaderiya@gmail.com	
13	Driver	Sh. Jagdish Vishwakarma	Driver	-	5200-20200	08.07.2008	08.07.2008	9303943941	-	
14	Driver	Sh. Sanjay Agarwal	Driver	-	5200-20200	14.07.2008	14.07.2008		-	
15	Supporting staff	-	--	--	--	--	--	--	--	--
16	Supporting staff	--	--	--	-	--	-	--	-	-

1.3 Total land with KVK (in ha):25.583

S. No.	Item	Area (ha)
1	Under Buildings	0.075

2	Under Demonstration Units	1.0
3	Under Crops	20.0
4	Orchard/Agro-forestry	2.0
5	Others (specify)	2.508
Total		25.583

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.) Lakh	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2015	750	67.68	-	-	Completed
2	Farmers Hostel	ICAR	2015	305	43.22	-	-	Completed
3	Staff Quarters (6)	ICAR	2015	416	50.00	-	-	Completed
4	Demonstration Units (2)	NA	NA	NA	NA	NA	NA	NA
5	Fencing	NA	NA	NA	NA	NA	NA	NA
6	Rain Water harvesting system	NA	NA	NA	NA	NA	NA	NA
7	Threshing floor	NA	NA	NA	NA	NA	NA	NA
8	Farm godown	NA	NA	NA	NA	NA	NA	NA

B) Vehicles/ Equipment

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	25-05-2016	166000	-	Ongoing
Motor Cycle	30-12-2004	45452	Transferred to KVK Sagar II	Ongoing
Bolero(Jeep)	31-01-2019	800000	69000	Ongoing
Raised bed Planter	31-03-2017	82325	-	Ongoing
Seed Cum Fertilizer Drill	25-05-2016	29001.25	-	Ongoing
Other (Pl. specify) Brush Cutter	25-03-2017	24990	-	Ongoing

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	29-03-2016	49270	Ongoing
Ceiling mount kit set	30-03-2016	7752	ongoing
Xerox Machine	29-03-2015	42862.82	Ongoing
Computer, Laser Printer	31-03-2016	14500	Ongoing
UPS 600 VA	31-03-2016	5971	Ongoing
Inverter (2)	5-10-2018 & 25-03-2016	29000 & 24000 ((with battery)	Ongoing
Drip irrigation system	27-04-2013	19556	Ongoing
Inverter Battery (2)	31-03-2017 & 22-09-2021	14773 & 14700	Ongoing

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	Pre Kharif 2023
2	Pre Rabi 2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Soybean-Wheat
2	AES – 2	Blackgram/Soybean- Wheat/ Chickpea
3	AES – 3	Blackgram/Soybean/ maize- Wheat/ Chickpea/ Lentil

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Deep black soils
2	AES - 2	Shallow soils
3	AES – 3	Medium deep black soils

Add AES if neededLand Use Pattern

Particulars	Area “000 ha”
Total Geographical area	1022759
Forest	219297
Waste Land	58188
Other than cultivated area	12613
Cultivable waste and alkaline land	-
Pastures	76924
Bushes	735
Current Fallow	5990
Other Fallow	17575
Agricultural Land	252366
Area Sown	548277
Kharif	412691
Rabi	4,74,597
Zaid	52400
Cropping Intensity	182

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	11375
2	Well	152360
3	Tube well	85823
4	Ponds	5382
5	Others	238183

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep black Soil	- Black soil is a black-colored soil rich in humus and contains a high percentage of phosphoric acid, phosphorus, and ammonia. - It is also rich in iron, lime, calcium, potash, aluminium, and magnesium. - These soils are very fertile and are useful in the cultivation of various types of crops	573
2	Shallow Soil	Shallow soils have less than 50 cm depth of solum. Generally, they have a thin A horizon over the bed rock or	289

		the parent material. If there is a B horizon underlying the A horizon the total depth of A and B horizon does not exceed 50 cm.	
3	Medium deep black Soil	- The black soil is highly retentive of moisture. - It swells greatly on accumulating moisture. - Strenuous effort is required to work on such soil in rainy season as it gets very sticky. In summer, the moisture evaporates, the soil shrinks and is seamed with broad and deep cracks.	160.8

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Productivity (Q /ha)
1	Soybean	193680	1000
2	Blackgram	94150	500
3	Paddy	56280	2300
4	Maize	14050	2800
5	Sorghum	1400	1300
6	Kodo	1000	500
7	Pigeonpea	4460	1300
8	Sesame	4500	600
9	Wheat	322000	3600
10	Chickpea	120000	1560
11	Lentil	95000	1370
12	Linseed	13800	1100
13	Mustard	28000	1150
14	Greengram	40108	1070

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	86.6	22.0	9.1
Feb, 22	00	28.2	13.1
Mar, 22	1.2	35.7	19.2
Apr, 22	00	41.8	24.3
May, 22	25.6	41.9	26.3
Jun, 22	209.2	38.7	24.9
July, 2022	276.6	31.0	23.5
Aug., 2022	530.5	29.1	22.8
Sept., 2022	221.6	30.5	22.4
Oct. 2022	177.0	31.2	19.2
Nov. 2022	00	29.7	15.1
Dec. 2022	28.4	26.5	12.5

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	174150	251.1 MT.	 kg
Buffalo	129346	 MT.	 kg
Sheep			
Crossbred/ Indigenous	--	--	--
Goats	108540	0.53 MT	 kg

Pigs Crossbred/ Indigenous	--	---	---
Rabbits	--	--	--
Poultry			
Hens	97558	 Lakh eggs	 eggs/ bird/yr
Turkey and others	--		
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sagar	Sagar	Patharia Jat , Bamohri dunder	Blackgram, Soybean ,Wheat, Lentil	Low Yield due to, un availability of quality seed weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Soybean
2	Khurai	Khurai and Sagar	Dikua and Padaria,	Blackgram, Wheat, Chickpea Lentil , Soybean	Low Yield due to , un availability of quality seed weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Blackgram
3	Sagar	Sagar and khurai	Godwani , Khadera Khurd, Banhat and Kariya gurjar	Blackgram, Soybean Wheat, Chickpea, Lentil	Low Yield due to , un availability of quality seed weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Chickpea and Lentil
4	Sagar	Sagar	Padaria	Blackgram, Soybean Wheat, Chickpea, Lentil	Low Yield due to , un availability of quality seed weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Mustard
5	Sagar	Sagar	Gidwani, bachlon	Blackgram, Soybean Wheat, Chickpea, Lentil, vegetable	Low Yield due to , un availability of quality seed weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Greengram

Priority / Thrust areas

S. No.	Particulars
1.	Integrated Crop Management
2.	Varietal replacement
3.	Integrated nutrient management
4.	Integrated pest management
5.	Integrate disease management

6.	Diversification
7.	Natural Resource Management
8.	Soil health management
9.	Soil moisture conservation
10.	Seed Conservation
11.	Utilization of resources
12.	Women in Agriculture (FLD NKG)
15.	Income generation
16.	Live-stock Production Management
17.	Ecto-parasite, De-worming
18.	Animal nutrition and Feed management
19.	Poultry production
20.	Income Generation Activities

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
14	70	14	70

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
45	1200	100	2500

Seed Production (Qtl.)	Planting material (Nos.)
	3000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterp rise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	IV	Maize, Wheat	1-use of hybrid variety/ high seed cost , seed can not use for next season 2-Low yield due to use of JW 3288 3-Very scanty area/No cultivation of	1-Assessment of improved variety of Maize JM 215 in rainfed condition 2-Assessment of improved bio-fortified variety of wheat MP 1358 in restricted irrigation condition. 3- Assessment of Kodo variety JK	High yielding variety (Ivory white), very soft and high yielding good quality variety, early maturity (40-45	Production Technology of Wheat and their improved varieties for different sowing conditions	Production Technology of Kharif and rabi crops	Field day	Maize

			Kodo crop	137 as crop diversification with nutritional security	days), Yield -300-400 q/ha., Seed treatment with Tricoderma , psedumon as use of biofertilizer s and bio pesticide. Demonstrat ion of improved variety of paddy JR 206 as direct sowing . Demonstrat ion on improved variety of soybean (JS 20-116) on Ridge & Furrow method. Demonstrat ion of improved variety of linseed JLS 95 in rainfed condition. improved variety of coriander Sudha	ns			
3	IDM	Okra, Onion, Blackgram	1-More use of chemicals insecticide and pesticide in an indiscriminant manner. 2-Low yield due to use of only broad leaves weedicides as	1-Assessment of <i>Verticillium laccini</i> , <i>Beauveria basiana</i> & Neem oil for sucking types insects and fruit borer management in Okra. 2- Assessment of Mixed weedicide Quizalofop ethyl 4%+ Oxyflourfen	Demonstra tion of effect of Cyantrniliprole for lepidoptero us, sucking ,caterpillar and chewing types insects pest	Improv ed producti on technolo gy of blackgram and seed producti on	Hitech Production technology of Solanecious vegetables crops (IS)	Field day, Field visit	Seed of Okra

			Oxyflourfen 6% Oxyflourfen 6% 3-improper use of different types of chemical for pest and diseases	6% for the control of narrow and broad leaves in Onion. 3- Assessment of NEEMASTRA as broad for management spectrum botanical pesticide in Black gram of all types of insect pest	managemen t in Tomato crops.				
4	INM	Cauliflo wer, Wheat , Tomato	1-Low yield due to imbalance use of fertilizers 2-Not more efficient in granule form and leaching problem 3-Low yield due to imbalance use of fertilizers	1- Assessment of INM in Cauliflower on STV 2- Assessment of Nano urea spray in wheat crop. 3- Assessment of integrated nutrient management in Tomato	INM in Soybean crop. Demonstrat ion on INM in Garlic (G-189) on STV basis. Demonstrat ion on Zn Supplemen tation in wheat crop for better growth and production. Demonstrat ion of biofertilizer s in Green gram	Vegetab le Producti on technolo gy of Tomato crop	Techniques to increase the Nutrient Use Efficiency	Field day	-
	LPM	Goat Kid, Cow,	1- Poor growth in goat kids . 2- Unavailability of Balance feed diet for milking animals. 3- Poor Milk yield and health. 4- Higher incidence of intra-mammry infection in cows	1- Assessment of growth performance on non- descript goat kids supplemented with concentrate mixture under field condition. 2- Assessment of Concentrate Pelleted feed for milch animals to enhance milk production. 3- Assessment of Probiotics YC gold (SC) for the milk yield on Crossbreed animals. 4- Assessment of use of KMnO4	Demonstra tion of Jiwamrut and Ghan Jiwamrut based Napier production for milk enhancem ent of dairy animals. Demonstrat ion of Vitamin E & Selenium for control of Mastitis disease in dairy animals. Demonstrat	1 Installati on of Goatry Unit in dry and rural area. 2 Round the year fodder producti on for milch animals	Breeds of cattle &buffaloes & their nutritional management.	Field day	-

				solution to wash udder before and after milking to prevent intra-mammary infection	ion of Azolla as green fodder for dairy animals.				

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Crop production	3	-	-	-	-	-	-	-	-	3
INM	1	-	1	-	2	-	-	-	-	4
Horticulture	-	-	-	-	2	-	-	-	-	2
Nutritional security										
TOTAL										

Detailed Information about OFT: 1

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of improved variety of Maize JM 215 in rainfed condition (1 st year)
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	use of hybrid variety/ high seed cost , seed can not use for next season
Thematic area:	Crop diversification and improved variety
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of hybrid variety P-9133
T2 –Recommended Practice-	Improved variety JM 215, matures 95 days, yield 40-42 q/ha, suitable for rainfed and irrigated condition, seed can use for next season
T3- Recommended Practice-	-
Date of sowing:	Last week of june 2023
Date of harvesting:	September 2023
Source of technology:	JNKVV, Jabalpur, 2019
Characteristics of technology:	Improved variety JM 215, matures 95 days, yield 40-42 q/ha, suitable for rainfed and irrigated condition, seed can use for next

	season
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 2

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of improved bio-fortified variety of wheat MP 1358 in restricted irrigation condition. (1st year)
Year/Season:	2023/Kharif
Farming situation:	Restricted irrigation
Problem diagnosis:	Low yield due to use of JW 3288
Thematic area:	Soybean –Wheat / Improved variety
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JW 3288
T2 –Recommended Practice-	Improved variety MP 1358, maturity 110-115 days, yield 50-55 q/ha,, suitable for restricted irrigation condition, tolerant to drought and heat, rich sources of iron, protein.
T3- Recommended Practice-	-
Date of sowing:	First week of November2023
Date of harvesting:	First week of April 2024
Source of technology:	JNKVV, Jabalpur, 2021
Characteristics of technology:	Improved variety MP 1358, maturity 110-115 days, yield 50-55 q/ha,, suitable for restricted irrigation condition, tolerant to drought and heat, rich sources of iron, protein
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 3

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Kodo variety JK 137 as crop diversification with nutritional security (1st year)
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Very scanty area/No cultivation of Kodo crop
Thematic area:	Crop diversification & Improved variety
No of trials:	05

No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Very old seed/unknown variety
T2 –Recommended Practice-	Improved variety JK 137, duration 102-107 days, yield 25-30 q/ha, highly tolerant to temperature and moisture stress, low fat, high protein content, rich in vitamin B folic acid, calcium and iron
T3- Recommended Practice-	-
Date of sowing:	Last week of June 2023
Date of harvesting:	1st week of October 2023
Source of technology:	JNKVV, Jabalpur, 2015
Characteristics of technology:	
Name of Crop/Enterprises:	Kodo millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 4

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of <i>Verticillium laccini</i> , <i>Beauveria basiana</i> & Neem oil for sucking types insects and fruit borer management in Okra . (1st year)
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	More use of chemicals insecticide and pesticide in an indiscriminant manner.
Thematic area:	Organic based vegetable production.
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1:Old and low yielding variety Jhilmil, Arka Anamika etc. and use of chemical insecticide
T2 –Recommended Practice-	T-2: Seed treatment with Pseudomonas /Trichoderma,, Use of need based organic insecticide <i>Verticillium laciini</i> and Neem oil for control the of sucking types insects and <i>Beauveria basiana</i> for fruit borer management and YVM resistant variety Radhika (HY)
T3- Recommended Practice-	-
Date of sowing:	June 2023
Date of harvesting:	August 2023
Source of technology:	Advanta Golden seed Co.2015 & JNKVV 2018.

Characteristics of technology:	YVM resistant variety Radhika (HY)
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 5

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Mixed weedicide Quizalofop ethyl 4%+ Oxyflourfen 6% for the control of narrow and broad leaves in Onion. (1st year)
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of only broad leaves weedicides as Oxyflourfen 6%
Thematic area:	Weed Management in onion crops
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Oxyflourfen 23.5 % EC @ 01 litre used as Post emergence for narrow leaf only and 2 hand weeding.
T2 –Recommended Practice-	T2:Use of Weedicide Quizalofop ethyl 4%+ Oxyflourfen 6% in combination @ 01 litre/ha as Systemic & Contact post emergence. One hand weeding as per need after 45 to 50 days
T3- Recommended Practice-	-
Date of sowing:	November 2023
Date of harvesting:	February 2024
Source of technology:	Dhanuka Agritech Ltd 2020
Characteristics of technology:	control both narrow and broad leaves weeds
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 6

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of INM in Cauliflower on STV
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizers
Thematic area:	Onion -Cauliflower / INM

No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of NPK @60:40: Kg /ha
T2 –Recommended Practice-	Seed treatment with pseudomonas @ 20ml/lit , azotobacter and PSB + NPK @ 80:60:40 kg/ha (75%) and application of Boron as per need
T3- Recommended Practice-	-
Date of sowing:	Month of July 2023
Date of harvesting:	Month of September 2023
Source of technology:	JNKVV, Jabalpur, 2016
Characteristics of technology:	Seed treatment with pseudomonas @ 20ml/lit , azotobacter and PSB + NPK @ 80:60:40 kg/ha (75%) and application of Boron as per need for higher production and quality crud
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 7

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of NEEMASTRA as broad spectrum botanical pesticide in Black gram for management of all types of insect pest (1st year)
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	improper use of different types of chemical for pest and diseases
Thematic area:	Wheat –Blackgram/ Soybean ,Bio insecticide
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of chemical insecticide and pesticides
T2 –Recommended Practice-	Crush 5 kg Neem leaves , 5lit cow urine and 2 kg cow dung with 100 lit of water and use as foliar spray for one acre after 25-30, 40-45 DAS and as per need
T3- Recommended Practice-	-
Date of sowing:	Month of July 2023
Date of harvesting:	Month of November 2023
Source of technology:	ITKS on Organic Farming Pp 3, NCONF, Ghaziabad (2011-12).

Characteristics of technology:	
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 8

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Nano urea spray in wheat crop . (1st year)
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Not more efficient in granule form and leaching problem
Thematic area:	Soybean –wheat , Nano urea
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of chemical fertilizers as N:P:K – 80:60:0
T2 –Recommended Practice-	Top dressing of urea after 25 days , Spray of Nano urea @ 2-4 ml /lit , after 40-45 days and after 65-70 days in place of top dressing of urea
T3- Recommended Practice-	-
Date of sowing:	First week of November 2023
Date of harvesting:	Last week of March 2024
Source of technology:	IFFCO -2017
Characteristics of technology:	Top dressing of urea after 25 days , Spray of Nano urea @ 2-4 ml /lit , after 40-45 days and after 65-70 days in place of top dressing of urea of better production and yield of wheat
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 9

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of integrated nutrient management in Tomato.(1st year)
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer
Thematic area:	vegetables /INM
No of trials:	05

No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalanced use of fertilizer(80:60:30)
T2 –Recommended Practice-	Seedling treatments with Pseudomonas and azospirillum and PSB, Soluble fertilizers NPK 150 : 100:50 (75%)as 19:19:19 ,17:35:0 and 0 :0:50 and spray of calcium nitrate for better fruit setting (0.1%)
T3- Recommended Practice-	-
Date of sowing:	First week July 2023
Date of harvesting:	Last week of September 2023
Source of technology:	IIVR 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 10

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of growth performance on non- descript goat kids supplemented with concentrate mixture under field condition
Year/Season:	2023/Kharif
Farming situation:	-
Problem diagnosis:	Poor growth in goat kids
Thematic area:	Feeding management in goat kids
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Depends only browsing for 6–8 hr on community browsing/grazing land
T2 –Recommended Practice-	concentrate mixture @ 1.5% of body weight along with browsing for 150 days
T3- Recommended Practice-	-
Starting Date:	15 July 2023
Date of Compilition:	15 September 2023
Source of technology:	CAZRI-2014
Characteristics of technology:	concentrate mixture @ 1.5% of body weight along with browsing for 150 days
Name of Crop/Enterprises:	Goat Kids
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 11

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Concentrate Pelleted feed for milch animals to enhance milk production
Year/Season:	2023/Kharif
Farming situation:	-
Problem diagnosis:	Unavailability of Balance feed diet for milking animals.
Thematic area:	LPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Unavailability of Balance feed diet for milking animals
T2 –Recommended Practice-	Use of Dewormer -Hitek (Ivermectin) 3 gms for 300 Kg of Body Weight of animal, Concentrate Pelleted feed for milch animals -1 Kg for 2 Kg of milk production
T3- Recommended Practice-	-
Starting Date:	15 July 2023
Date of Compilition:	15 September 2023
Source of technology:	NDRI,Karnal
Characteristics of technology:	Use of Dewormer -Hitek (Ivermectin) 3 gms for 300 Kg of Body Weight of animal, Concentrate Pelleted feed for milch animals -1 Kg for 2 Kg of milk production
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 12

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Probiotics YC gold (SC) for the milk yield on Crossbreed animals.
Year/Season:	2023 Rabi
Farming situation:	-
Problem diagnosis:	Poor Milk yield and health
Thematic area:	LPM
No of trials:	05
No. of farmers involved	05

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Roughages and concentrate feeding only
T2 –Recommended Practice-	Roughages and concentrate feeding (3:1) as per body weight with 25gm/day/animal of Probiotics (SC) Yeast culture is feed
T3- Recommended Practice-	-
Starting Date:	15 November 2023
Date of Compiliation:	15 February 2024
Source of technology:	JNKVV, Jabalpur, 2019
Characteristics of technology:	25gm/day/animal of Probiotics (SC) Yeast culture is feed (90 days)
Name of Crop/Enterprises:	Cow
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 13

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of use of KMnO4 solution to wash udder before and after milking to prevent intra-mammry infection
Year/Season:	2023/Kharif
Farming situation:	-
Problem diagnosis:	Higher incidence of intra-mammry infection in cows
Thematic area:	Health management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Udder Washing with simple water
T2 –Recommended Practice-	Udder Washing with KMnO4 solution before and after milking
T3- Recommended Practice-	-
Starting Date:	15 November 2023
Date of Compiliation:	15 February 2024
Source of technology:	NDRI, 2011
Characteristics of technology:	Incidence of intra-mammary infection
Name of Crop/Enterprises:	Cow
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT:

Title of on-farm trial:	-

Year/Season:	-
Problem diagnosis:	-
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	
No. of farmers/farm women involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Tomato	Insect pest management in vegetables	Demonstration of effect of Cyantrniliprole for lepidopterous, sucking ,caterpillar and chewing types insects pest management in Tomato crops.	Cyantroniliprole @ 1.9 ml/lit as per need	Kharif 2023	01	05/05	Incidence of insects (%)Yield (wt of fruit g) height of the plant (cm.), No of fruit/plant, maturity days and B:C Ratio
2	Radish	Natural Farming	High yielding variety (Ivory white), very soft and high yielding good quqlity variety, early maturity (40-45	Seed , Jeewamrut ,Tricoderma , psedumonas use of biofertilizers and bio pesticide	Rabi season 2023	0.2	05/05	Yield, B:C ratio, Farmer reaction, length, weight

			days), Yield - 300-400 q/ha., Seed treatment with Tricoderma , psedumonas use of biofertilizers and bio pesticide					
3	Paddy	Crop diversification and Improved variety	Demonstration of improved variety of paddy JR 206 as direct sowing	Seed 30kg/farmer, PSB, Azotobactor for seed treatment 600gm for each farmer	Kharif 2023	02	05/05	Ear length, no. of tillers/hill, yield q/ha
4	Soybean	Improved Variety	Demonstration on improved variety of soybean (JS 20-116) on Ridge & Furrow method	Variety- JS 20-116 seed 30 kg/farmer, Seed treatment with PSB, Rhizobium & <i>Trichoderma viride</i> 600 gm for each farmer	Kharif 2023	02	05/05	Yield(q/ha), Pods/plant, B:C ratio
5	Linseed	Improved Variety	Demonstration of improved variety of linseed JLS 95 in rainfed condition	Seed 10kg/farmer, PSB & Azotobactor 200 gm for each farmer	Rabi 2023-24	02	05/05	Siliqua/plant, plant height, yield q/ha
6	Blackgram	Integrated Crop management under natural farming system	Demonstration on natural farming (Beejamrut ,Jeewamrut and Ghan Jeewamrut) under Blackgram-Chickpea/ Lentil cropping system in Sagar district	Plastic drum 200 lit and 100 lit , Jaggery and pulses flour @ 5 kg /500 lit Seed of Blackgram (IPU2-43), + Jowar as intercropping	Kharif 2023	02	05	Soil PH , EC (dS/m), SOM (%), OC (%), microbial biomass (Pre sowing and post harvest), number of pods /plant ,number of branches , yield ,Cost of cultivation , B:C Ratio
7	Chickpea and lentil	Integrated Crop management under natural farming system	Demonstration on natural farming (Beejamrut ,Jeewamrut and Ghan Jeewamrut) under Chickpea/ Lentil - Blackgram cropping system in Sagar district	Plastic drum 200 lit and 100 lit , Jaggery and pulses flour @ 5 kg /500 lit Seed of chickpea and lentil + coriander/ linseed as intercropping	Rabi 2023-24	02	05/05	Soil PH , EC (dS/m), SOM (%), OC (%), microbial biomass (Pre sowing and post harvest), number of pods /plant ,number of branches , yield ,Cost of cultivation , B:C

8	Coriander	improved variety/ varietal improvement	Demonstration of improved variety of coriander Sudha	Seed 2.5 kg/farmer, PSB @ 10 gm/kg of seed for seed treatment	Rabi 2023-24	0.5	05/05	Plant height, number of umbel /plant , yield q/ha
9	Soybean	INM	INM in Soybean Crop	Integrated nutrient management given better Use of Biofertilizers + 75% NPKS@ 20:50:20:20 kg/ha	Kharif/ 2023	02	05/05	No of Pods/plant ,Yield , B:C Ratio , availability of macro and micro nutrient
10	Garlic	INM	Demonstration on INM in Garlic (G-189) on STV basis	Seed material 5 q/ha ,Azospirillum (1lit)+PSB (5 kg/ha) +80:60:40 kg/ha (75%)	2023-24	0.2	05/05	Bulb weight, number of cloves ,yield q/ha, B:C ratio
11	Wheat	Micronutrient	Demonstration on Zn Supplementation in wheat crop for better growth and production.	20 kg Zinc sulphate (ZnSo4)/ha as a soil application and 0.2-0.5 % foliar application as per need / Zinc Solublising bacteria (biofertilizer) @ 2.5 lit. per ha at the time of sowing.	Rabi and 2023	02	05/05	Tillers/Plant (NO.) number of effected plant due to zinc deficiency, height of plant , yield (q/ha) ,B:C ratio
12	Greengram	INM	Demonstration of biofertilizers effect in Greengram crop as organic produce	Seed treatment with Trichoderma + Rhizobium + PSB @ 10 ml/kg seed, Rhizobium, KSB, PSB and Trichoderma as a soil application @ 5 kg/ha, pseudomonas @ 5 lit/ha as per need	Zaid /2023	02	05/05	Zaid /2023 Pods/plant (No) , yield (q/ha), B: C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	October 2023	50
2	Farmers Training	3	November 2023	75
3	Media coverage	2	-	MASS
4	Training for extension functionaries	-	-	-

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Cow	Cross breed	05	05	No of slips 3000	Increase Milk Production / Day/ Animal, Increase in Conception rate of Animal, Yield of Napier per ha., No of cuttings. No of slips in one bunch.	- -	--
Cow	Cross breed	05	05	E- Care Se ,15 to 20 g for up to 3 month	Increase Milk Production / Day/ Animal, Disease infestation rate of Animal	-	-
Cow	Cross breed	05	05	1.5 Kg along with wheat straw for each animals for per day	Milk Production / Day/ Animal, Increase in Conception rate of Animal	-	-
Poultry	Narmadanidhi	05	150	15 days old chicks, 200 No.	Body weight (kg.) Egg production, B:C Ratio	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	CP	Demonstration of improved variety of blackgram Indira Urd Pratham	Seed 10kg, PSB, Rhizobium 200gm for seed treatment, Fungicide vitavax power 20gm,	Kharif 2023	10	25/25	Pods/plant, plant height, yield q/ha, B:C ratio

				insecticide imidacloprid 17.8 % FS 80 ml for each farmer				
2	Soybean	CP	Demonstration of improved variety of soybean JS 2098	Seed 30 kg, PSB, Rhizobium & Trichoderma 600 gm, Fungicide 60 gm, insecticide profenophos 400 ml each farmer	Kharif 2023	10	25/25	Pods/plant, plant height, yield q/ha, B:C ratio
3	Chickpea	CP	Demonstration of improved variety of chickpea RVG 202	Seed 30 kg, PSB, Rhizobium & Trichoderma 600 gm for seed treatment, Fungicide vitavax power 60 gm, Trichoderma 1 kg for soil treatment , insecticide Profenophos 40 EC 400 ml for each farmer farmer	Rabi 2023- 24	10	25/25	Pods/plant, plant height, yield q/ha, B:C ratio
4	Lentil	CP	Demonstration of improved variety of Lentil RVL 31	Seed 18 kg, PSB, Rhizobium & Trichoderma 400 gm for seed treatment, Fungicide vitavax power 36 gm, Trichoderma 1 kg for soil treatment , insecticide Imidacloprid 17.8 % FS 80 ml or yellow sticky trap 4 for each farmer	Rabi 2023- 24 Rabi 2023- 24	10	25/25	Seed 18 kg, PSB, Rhizobium & Trichoderma 400 gm for seed treatment, Fungicide vitavax power 36 gm, Trichoderma 1 kg for soil treatment , insecticide Imidacloprid 17.8 % FS 80 ml or yellow sticky trap 4 for each farmer
5	Summer Greengram	CP	Demonstration of improved variety of summer greengram MH 421	Seed 10 kg, PSB, Rhizobium & trichoderma 200 gm & Fungicide vitavax power 20 gm for seed treatment, insecticide Imidacloprid 17.8 % FS 80 ml for each farmer	Zaid 2023	10	25/25	Pods/plant, plant height, yield q/ha, B:C ratio
6	Field pea IPFD 12-2	CP	Demonstration of improved variety of field	Seed 30 kg, PSB, Rhizobium & trichoderma 500	Rabi 2023- 24	20	50/50	Pods/plant, No. of seed /pod yield q/ha, B:C ratio

			pea IPFD 12-2	gm & Fungicide vitavax power 60 gm for seed treatment, sulfex 0.4 kg, thiamethoxam (12.6) lembdacyhalothrin 80 g for each farmer and other is as per need				

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	October 2023	75
2	Farmers Training	3	November 2023	100
3	Media coverage	2	-	MASS
4	Training for extension functionaries	-	-	-

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	6	6	-	-	-	-	-	-	300
Integrated Farming	-	-	-	-	-	-	-	-	
Water management	1	1	-	-	-	-	-	-	25
Seed production	2	2	-	-	-	-	-	-	50
Integrated Crop Management	-	-	-	-	-	-	-	-	
Total	9	9	-	-	-	-	-	-	375
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1	-	-	-	-	-	-	25
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	
Total	1	1	-	-	-	-	-	-	25
b) Fruits			-	-	-	-	-	-	
Management			-	-	-	-	-	-	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
of young plants/orchards									
Total	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	1	1	8	5	13	9	3	12	
Soil and Water Conservation	-	-	-	-	-	-	-	-	
Integrated Nutrient Management	1	1	8	5	13	9	3	12	
Production and use of organic inputs	1	1	10	4	13	9	3	12	
Management of Problematic soils	-	-	-	-	-	-	-	-	
Micro nutrient deficiency in crops	1	1	8	5	13	9	3	12	
Nutrient Use Efficiency	1	1	8	5	13	9	3	12	
Soil and Water Testing	1	1	8	5	13	9	3	12	
Total	6	6	50	29	78	54	18	72	
IV Livestock Production and Management									
Dairy Management	-	--	--	--	--	--	--	-	
Poultry Management	1	1	8	5	13	9	3	12	
Disease Management	-	--	--	--	--	--	--	-	
Feed management	1	1	8	5	13	9	3	12	

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
enhancement in field crops											
Integrated Pest Management	--	--	--	--	--	--	--	--	--	--	--
Integrated Nutrient management	--	--	--	--	--	--	--	--	--	--	--
Protected cultivation technology	--	--	--	--	--	--	--	--	--	--	--
Group Dynamics and farmers organization	--	--	--	--	--	--	--	--	--	--	--
Capacity building for ICT application	--	--	--	--	--	--	--	--	--	--	--
Livestock feed and fodder production	1	1	8	5	-	13	9	3	-	12	25
Production and use of organic inputs	--	--	--	--	--	--	--	--	--	--	--
Gender mainstreaming through SHGs	--	--	--	--	--	--	--	--	--	--	--
Any other (Pl. Specify)	--	--	--	--	--	--	--	--	--	--	--
TOTAL	1	1	8	5	-	13	9	3	-	12	25

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Production techniques of Greengram.	1	1	8	5	13	9	3	12	25
Moisture conservation through tillage practices	1	1	8	5	13	9	3	12	25
Seed production technique of soybean	1	1	8	5	13	9	3	12	25
Improved production technology of blackgram and seed production	1	1	8	5	13	9	3	12	25
Weed management in of kharif crop	1	1	8	5	13	9	3	12	25

Management									
Soil fertility management	1	1	8	5	13	9	3	12	25
Soil and Water Conservation	1	1	8	5	13	9	3	12	25
Integrated Nutrient Management	1	1	8	5	13	9	3	12	25
Production and use of organic inputs	1	1	8	5	13	9	3	12	25
Management of Problematic soils	1	1	8	5	13	9	3	12	25
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	1	1	8	5	13	9	3	12	25
Disease Management	-	--	--	--	--	--	--	--	-
Feed management	-	-	--	-	--	-	--	-	-
Production of quality animal products	-	-	--	-	--	-	--	-	-
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-
Women and child care	1	1							25
Total	1	--	--	--	--	--	--	-	25

VI Agril. Engineering									
VII Plant Protection	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
(C) Extension Personnel	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
February	F &FW	Production techniques of Greengram.	01	13	2	15	7	3	10	25

May	F &FW	Moisture conservation through tillage practices	01	13	2	15	7	3	10	25
June	F &FW	Seed production technique of soybean	01	13	2	15	7	3	10	25
June	F &FW	Improved production technology of blackgram and seed production	01	13	2	15	7	3	10	25
July	F &FW	Weed management in of kharif crop	01	13	2	15	7	3	10	25
Horticulture										
April-July	F &FW	Rejuvenation of Desi Ber/ Jharberi (RY)	01	13	2	15	7	3	10	25
June	F &FW	Vegetable Production technology of okra crop	01	13	2	15	7	3	10	25
July	F &FW	Vegetable Production technology of Tomato crop	01	13	2	15	7	3	10	25
Livestock production										
March	F &FW	Breeds of cattle &buffaloes & their nutritional management.	01	13	2	15	7	3	10	25
June	F &FW	Schedule of Vaccination in large and small animals.	01	13	2	15	7	3	10	25
July	F &FW	Round the year fodder production for milch animals.	01	13	2	15	7	3	10	25
July	F &FW	Care of animals during rainy season.	01	13	2	15	7	3	10	25
August	F &FW	Correct method of milking & clean milk production.	01	13	2	15	7	3	10	25
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										

Soil Science										
Feb	F &FW	Balanced use of fertilizer awareness program	01	13	2	15	7	3	10	25
March	F &FW	Use of waste decomposer for compost preparation	01	13	2	15	7	3	10	25
April	F &FW	Production and use of Vermicompost (RY)	01	13	2	15	7	3	10	25
May	F &FW	Importance of natural farming	01	13	2	15	7	3	10	25
June	F &FW	INM in Vegetables crops	01	13	2	15	7	3	10	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
September	F &FW	Rouging Technique in Soybean for production of quality seed.	01	13	2	15	7	3	10	25
October	F &FW	Cultivation Practices of Lentil and chickpea	01	13	2	15	7	3	10	25
October	F &FW	Production Technology of Wheat and their improved varieties for different sowing conditions	01	13	2	15	7	3	10	25
October	F &FW	Production technology of linseed	01	13	2	15	7	3	10	25
December	F &FW	Rouging Technique in Rabi crop for production of quality seed.	01	13	2	15	7	3	10	25
Horticulture										
October	F &FW	production technology and Weed management	01	13	2	15	7	3	10	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		in onion crop								
November	F &FW	Radish production technology through natural farming	01	13	2	15	7	3	10	25
October	F &FW	Hitech Production technology of Solanecious vegetables crops (IS)	01	13	2	15	7	3	10	25
December	F &FW	Insect pest management in vegetables crops	01	13	2	15	7	3	10	25
Livestock production										
august	F &FW	Spineless cactus fodder production for animal nutrition	01	13	2	15	7	3	10	25
September	F &FW	Installation of Goatry Unit in dry and rural area.	01	13	2	15	7	3	10	25
October	F &FW	Production technology of fodder crops	01	13	2	15	7	3	10	25
November	F &FW	Bacterial & viral diseases &their treatment in dairy cattle.	01	13	2	15	7	3	10	25
December	F &FW	Methods of calf rearing & their management.	01	13	2	15	7	3	10	25
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
July	F &FW	INM in kharif crops	01	13	2	15	7	3	10	25
August	F &FW	Techniques to increase the Nutrient Use Efficiency (IS)	01	13	2	15	7	3	10	25
September	F &FW	Importance of	01	13	2	15	7	3	10	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		soil testing and soil health card in agriculture production								
Oct	F &FW	Nutrient Use Efficiency of rabi cereals, oilseeds and pulses	01	13	2	15	7	3	10	25
November	F &FW	Importance of biofertilizer in agriculture	01	13	2	15	7	3	10	25

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July		Production technology of Kharif crops	1	20	5	25	2	1	3	28
Horticulture										

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Scientific visit to farmers field	40	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	1000	-	-	-	-	-	-	-	-	-
Diagnostic visits	22	-	-	-	-	-	-	-	-	-
Exposure visits	Mass	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	3	-	-	-	-	-	-	-	-	-
Soil health Camp	1	-	-	-	-	-	-	-	-	-
Animal Health Camp	1	-	-	-	-	-	-	-	-	-
Agri mobile clinic	2	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	1	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	2	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	2	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	2	-	-	-	-	-	-	-	-	-
Others (pl. specify)	2	-	-	-	-	-	-	-	-	-
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
OILSEEDS	-	-	-
PULSES	-	-	-
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Drumstick	PKM-1	
	Mango	Dashahari, Langada, neelam, Aamrapali	900
	Citrus	Kagaji Lime	200
	Guava	Allahabadi saphead, Lucknow-49	200
	Seetaphal	Balanagar	500
	Papaya	Red lady	50
VEGETABLES	Chili		100
	Brinjal		100
	Tomato		100
FOREST SPECIES	Bamboo	Katanga	500
	Neem	-	400
ORNAMENTAL CROPS	Rose	Red, White	100
	Crotan	-	200
PLANTATION CROPS	Ashok	-	200

	Dresina	-	100
	Pam	-	50
	Junifhar	-	50
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	500	-	-
2	<i>Rhizobium</i>	500	-	-
3	Beauveria bassiana	1000(Lit.)	-	-
4	Metarhizium anisopliae	500	-	-
5	Pseudomonas fluorescens	500	-	-
6	<i>Verticillium</i>	200	-	-
7	<i>Panchagavya</i>			
BIOFERTILIZERS				
1	Vermicompost	500	-	-
2	NADEP	-	-	-
3	Non Symbiotic Azotobacter	200	-	-
4	Azolla	1000	-	-
5	Blue green algae	500	-	-
6	Acetobactor	500	-	-
7	Aspergillus	500	-	-
8	Azatobactor	500	-	-
9	Azospirillum	500	-	-
10	Phosphate solublizing Bacteria	500	-	-
11	Other Bio digester	500	-	-
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	- -	- -	-
SHEEP AND GOAT	-	- -	- -	-
POULTRY	-	-	-	--
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
Jan to Dec 2023	4	4000
Folder	5	1000 each
Bulletin	1	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Radio talks	Aakashwani	5

2	TV talks	Doordarshan	2
	Newspaper coverage	Local News Paper	10
3	Social media (Whats App, Facebook, Instagram, Twitter etc.)	-	10

Success stories/Case studies identified for development as a case: 05(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, line dept. and interface
2	Rural Youth	PRA and interface
3	In-service personnel	AES and line dept.
4	methodology for identifying OFTs/FLDs	PRA and interface
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Gidawani	Sagar	25
2	Khadehara khurd	Sagar	30
3	Bamhori dunda	Sagar	35

1. No. of farm families selected per village : 30
2. No. of survey/PRA to be conducted: 2

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2015

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Hot Plate	1	Working condition
2	Visible Spectrometer	1	
3	Microprocessor Flame Photometer	1	
4	Grinder, Rotary Shaker, Laboratory Stiner	1	
5	Digital pH Meter	1	
6	Hot Air Oven	1	
	Digital Temp. Indicator	1	
	Timer	1	
7	Pastel Mortar Fisher Type Agate	1	
8	Electronic Portable Balance	1	
9	Electronic Analytical Balance	1	
10	Refrigerator L.G.C..L 322 GP	1	

11	Two KVA UPS	1	
	Two KVA Voltage Stabilizer	1	
12	Dermineraliser Part -I	1	
	Dermineraliser Part-II	1	
13	Digital Conductivity meter ELICO	1	
14	Godrej Storewell Model Two	1	
15	Godrej Two door filling Cabinete	1	
16	Soil Testing lab Items		
	i Central Table Soil Chemistry lab (Two side operation) L- 12 * 34* 4 FW	1	
	ii Below central lab cabinet with sink L 12*3 ft *4 FW	1	
	iii Equipments units 16 ft. L * H 2.6 *2 Fl With 5 meter Top and Sink	1	
	iv Equipment cup board drawer and Sieves	1	
17	Office Lab Table (L shape) with dimension 4*4*2.6W	1	
18	Fixing of Aluminium Glass door	1	
19	6.No. adjustable lab stool and 4 No. ad-Chair	10	
20	Electronic items 6 M.C.B., 6 POWER POINT, 2 H Single gassver. 3 east to voumert top winsfor fitting	1	
21	Providing and fixing pelmet & cartons	6	
		1	
22	Nitrogen Estimation system	1	
	i Electronic automatic twelve place macro block digestion system model KES 12 L		
(a)	Accessories	12	
(b)	Model KES DTL -digestion tube (250ml.)	1	
(c)	Model KES 12 UR: 15.5 insert Rack for KES 12 L	1	
(d)	Model KES 12 L.E.M. Exhaust manifold with teflen	1	
23	Mrida Parikshak Soil Testing Mini Lab solar operated with shaker & Hot Plate (10 parameters)	1	
24	GPS Entrex 10	1	
25	Mrida Parikshak Soil Testing Mini Lab with shaker & Hot Plate (15 parameters)	1	

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	5	
Water Samples	-	-	-	-
Total	500	500	5	

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Horticulture	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Veterinary science	Technological support, Trainings, scientist farmers interface, kisan mela.
Department of Women and child development	Poshan mah celebration, malnutrition trainings,

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
ATMA, NFSM	Trainings, scientist farmers interface, kisan mela, CFLD etc.

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
--	--

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
-	- -	--
-	- -	-
-	- -	-

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1470 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	RVS 2001-18, RVS 2001-4, JS 20-98, JS 20-29, JS 20-34, JS 20-69, JS 20-116, NRC 86 JS 20-94	Improved High yielding varieties	190
Blackgram	Kharif	Shekar Urd 3, PU 31, PU 35, PU 30, Pratap urd 1, IPU 2- 43, IPU 94-1, NUL 7, Indira Urd 1, Mukundra Urd 2, KU 96-3	Improved High yielding varieties	190
Greengram	Kharif	Shika, IPM 2-3, IPM 2-14, IPM99-125,TJM 3, BM 4, AKM 8802, VIRAT, PDM 139, WHITE MOONG (Local)	Improved High yielding varieties	190
Wheat	Rabi	MP 4010, MP 1203, HI 1544, MP 1215, JW 3288, HI 8737, HI 8498, HI8713, DBW 110, GW366, GW 322, MP3336, HI1531,JW3020, JW3173, JW 3211	Improved High yielding varieties	320
Lentil	Rabi	JL 1,JL 3, PL 5, IPL316, DPL 62,	Improved High yielding	190

		IPL 81, PL 8, RVL 31, RVL 11-6, L 4727, L 4717	varieties	
Chickpea	Rabi	JG 14, JG 12, JG 16, JG 36, JG 63, JG 74, JG 315, JG 11, JG 322, JAKI 9218, RVG 202, RVG 203, JGK 1, JGK 5, VIJAY	Improved High yielding varieties	280
Linseed	Rabi	JLS 67, JLS 79, JLS 66, JLS 27, JLS 9, JLS 95, JLS 73	Improved High yielding varieties	110

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq.m)	Output /Production
Azolla Production unit	Demonstration and income generation	25	20Kg
Fodder(Napier) production Unit	Demonstration and income generation	100	5000 suckers
Poultry Unit	Demonstration and income generation Kadakhnath (New Establishment)	150	50 Kg
Vermicompost	Demonstration and income generation	25	500Kg
Nursery (Seedling and sapling)	Demonstration and income generation	2500	50000-60000 no.
Guava Orchard	Demonstration and income generation	4000	2000 kg
Mango orchard	Demonstration and income generation	2000	20-300kg
Aonla (Desi)orchard	Demonstration and income generation	4000	300-400kg
Fruit Plant (Mother Plant)	Demonstration and scion purpose	-	

ANNUAL ACTION PLAN 2023

KVK Sagar-II

Year of sanction : 2019

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Ashish Kumar Tripathi	-	9826241232	kvkbijora@jnkvv.org

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (RS)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Ashish Kumar Tripathi	Scientist	Plant Pathology	107200 AGP 8000	24.1.2007	19.11. 2019	9826241232	aktjnkvv@gmail.com	
2	Subject Matter Specialist	Vacant								
3	Subject Matter Specialist	Vacant								
4	Subject Matter Specialist	Vacant								
5	Subject Matter Specialist	Vacant								
6	Subject Matter Specialist	Vacant								
7	Subject Matter Specialist	Vacant								
8	Programme Assistant	S.L.Waskel	PA	Horticulture	9300-34800	02.02.2019	30.12.2020	7869717433	Sukhlalwaskel98@gmail.com	
9	Computer Programmer/ PA	Priyanka Dhurvey	PA	Computer Science	9300-34800	14.10.2020	14.10.2020	7974350518	-	
10	Farm Manager	Vacant								
11	Assistant	Vacant								
12	Jr. Stenographer / Comp. Operator	Vacant								
13	Driver	Vacant								
14	Driver	Vacant								
15	Supporting staff	Vacant								
16	Supporting staff	Vacant								

1.3 Total land with KVK (in ha): 17.4 ha

S. No.	Item	Area (ha)
1	Under Buildings	-
2	Under Demonstration Units	0.6
3	Under Crops	16.0
4	Orchard/Agro-forestry	-
5	Others (specify)	0.8 (Bunds and nala)
Total		17.4

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building		Not available					
2	Farmers Hostel		Not available					
3	Staff Quarters (6)		Not available					
4	Demonstration Units (2)		Not available					
5	Fencing		Not available					
6	Rain Water harvesting system		Not available					
7	Threshing floor		Not available					
8	Farm godown		Not available					

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	Nil			
Motor Cycle 2	Nil			
Bolero(Jeep)	2020	800000	35282	Good condition
Other (Pl. specify)	Nil			

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LED TV	2022	38000	Good condition
Computer and Printer	2022	46000	Good condition
Laptop	2022	56000	Good condition

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	20.6.2023
2	25.9.2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Soybean-Wheat
2	AES – 2	Blackgram/Soybean- Wheat/ Chickpea
3	AES – 3	Blackgram/Soybean/ maize- Wheat/ Chickpea/ Lentil

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Deep black soils
2	AES - 2	Shallow soils
3	AES – 3	Medium deep black soils

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Land Use Pattern

Particulars	Area “ha”
Total Geographical area	1022759
Forest	219297
Waste Land	58188
Other than cultivated area	12613
Cultivable waste and alkaline land	-
Pastures	76924
Bushes	735
Current Fallow	5990
Other Fallow	17575
Agricultural Land	252366
Area Sown	548277
Kharif	412691
Rabi	4,74,597
Zaid	52400
Cropping Intensity	182

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	11375
2	Well	152360
3	Tube well	85823
4	Ponds	5382
5	Others	238183
6	Surface water	16757

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep black soils		573
2	Shallow soils		289
3	Medium deep black soils		160.8

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

Crop	Area ('000 ha)	Productivity (kg/ha)
Soybean	193680	1000
Blackgram	94150	500
Paddy	56280	2300
Maize	14050	2800
Sorghum	1400	1300
Kodo	1000	500
Pigeonpea	4460	1300
Sesame	4500	600
Wheat	322000	3600
Chickpea	120000	1560
Lentil	95000	1370
Linseed	13800	1100
Mustard	28000	1150
Greengram	40108	1070

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	12		
Feb, 22	0		
Mar, 22	0		
Apr, 22	0		
May, 22	0		
Jun, 22	74		
July, 2022	242		
Aug., 2022	424		
Sept., 2022	256		
Oct. 2022	132		
Nov. 2022	0		
Dec. 2022	0		

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	74150	 MT.	 kg
Buffalo	239346	 MT.	 kg
Sheep/ Goats	108540	 MT wool	 kg
Pigs <i>Crossbred/ Indigenous</i>	Nil	---	---
Rabbits	Nil		
Poultry			
Hens/	97558	 Lakh eggs	 eggs/ bird/yr
Turkey and others	Nil		
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Rehli	Rehli	Rajwans	Blackgram, Wheat, Lentil	Low Yield due to weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Linseed
2	Deori	Deori	Muderi	Blackgram, Wheat, Chickpea	Low Yield due to weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Blackgram, Sesame and Soybean
3	Kesli	Kesli	Sonpur	Blackgram, Wheat, Chickpea, Lentil	Low Yield due to weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Soybean, Lentil and Chickpea, OFT on IDM in Chickpea
4	Rahatgarh	Rahatgarh	Khajuria	Blackgram, Wheat, Lentil	Low Yield due to weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Lentil and Chickpea, OFT on IV of paddy
5	Jaisinagar	Jaisinagar	Rampura-Killai	Blackgram, Wheat, Lentil	Low Yield due to weed infestation, imbalance fertilizer application and Pest infestation. Low milk production due to low protein intake	CFLD on Linseed and Linseed

Priority / Thrust areas

S. No.	Particulars
1.	To facilitate the availability of seed of improved varieties of major crops i.e. soybean, Pigeonpea, Gram, Wheat in the district.
2.	To motivate farmers towards cultivation of vegetables, spices, medicinal plants and management practice in fruit crops to increase the socio economic status.
3	Better input use and their management through IPM, IDM, INM, IWM technologies for increasing crop production.
4	Conservation of natural resources to control soil and water erosion through water harvesting, conservation of soil moisture through summer ploughing, use of organic & bio fertilizers.
5	Improvement of breeds of Cattles, Balance feeding of milch animal and their health management.
6	Need to organize agri- based vocational trainings for self employment of rural youths like vermi compost production ,Seed

	production, Mushroom production, Production Technology of high value vegetable crops, value addition, dairy etc.
7	Women empowerment through modern implements / farm mechanization (Spiral grader, Seed separator, Wheel hoe, hanging grain cleaner, Potato digger and Onion planter) to reduce farm women drudgery.
8	Create awareness regarding post harvest losses during storage and value addition to agro products like Tomato, Ber, Amla, Mango.
9	To Create awareness about drudgery reduction of farm women, income generation by farm women, health, hygiene, nutrition in farm women and malnutrition in children by soy foods and other locally available raw materials
10	Expansion of various advance technology among the farmers.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
8	40	20 + 100 Ha CFLD	85+ 250 CFLD farmers

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
35	965	96	7745

Seed Production (Qtl.)	Planting material (Nos.)
350	100000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	IDM	Blackgram/ Soybean/Lentil / Potato	Low yield due to heavy incidence of Plant diseases	Assessment of MYMV resistant variety of blackgram IPU13-1, Assessment of IDM module for Rhizoctonia Aerial blight diseases of Soybean, IDM for management of Sclerotial wilt in Lentil, Assessment of IDM for foliar disease management in potato	Demonstration on management of bacterial wilt of brinjal	IDM in various crops	Integrated Disease management in Kharif and rabi crops	Field day	-
2	INM	Kodo	Low Yield	Assessment of biofertiliser based INM in Kodo millet, Assessment of Biofertiliser based INM in strawberry	Improve variety of Onion (L 883) and INM through biofertilisers , Biofertiliser and bio-control based IPM in Bean	INM in various crops	-	Field day, Field visit	Seed of Kodo
3	IV and IPM	Maize/ Sorghum/ Okra	Low Yield	Assessment of improve variety of Maize JM 218 with IPM, Assessment of high yielding variety of Okra (Radhika) with IPM	Improve variety CSH 30	Production technology of Maize, Okra etc.	Production technology of various crops.	Field day	Seed of maize. Sorghum and Okra
4	NRM	Soybean/ Wheat	Heavy infestation of weeds	Application of Pre-emergence weedicide Diclosolum 84 WDG for management of weeds in Soybean	Pro super bag for storage of wheat	Weed management in various crops	-	Field day	-
5	IV	Coriander/ Garlic	Low Yield	--	Improve variety G 189, Improve variety- Sudha	Production technology of Maize, Okra etc.	Production technology of various horticultural crops.	Field day	Seed of garlic and Coriander

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
IV	Kodo, maize, Sorghum	-	-	-	-	-	-	-	-	3
INM	-	-	-	Straberry	-	-	-	-	-	1
IPM	-	-	-	-	Okra	-	-	-	-	2
IDM	-	Soybean	Blackgram, Lentil	-	-	-	-	-	-	2
TOTAL										8

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
TOTAL								

Detailed Information about OFT: 1

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of MYMV resistant variety of blackgram IPU13-1
Year/Season:	2023 Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy infestation of Yellow mosaic disease
Thematic area:	MYMV resistant improve variety
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Mixed seed of Blackgram T 9 and PU1
T2 –Recommended Practice-	MYMV resistant improve variety of Blackgram (IPU 13-1)
T3- Recommended Practice-	-
Date of sowing:	First week of July
Date of harvesting:	First week of October
Source of technology:	IIPR Kanpur, 2020
Characteristics of technology:	Resistant to MYMV, High yielding (10-12 q/ha)
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	Cultivation of Yellow mosaic disease resistant variety of Blackgram (IPU 13-1)) in Kharif
Recommendations for Deptt. Personnel	Cultivation of Yellow mosaic disease resistant variety of Blackgram (IPU 13-1) in Kharif
Feedback	Resistant to Yellow mosaic disease

Detailed Information about OFT: 2

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of biofertiliser based INM in Kodo millet
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to no use of fertilizer application in Kodo millet
Thematic area:	IV and INM
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- No use of fertilisers
T2 –Recommended Practice-	T2- Spray of Nano DAP
T3- Recommended Practice-	T3-Soil application of Azatobactor, PSB and foliar application of soluble NPK 19-19-19
Date of sowing:	First week of July
Date of harvesting:	First week of November
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	High yielding (8-10 q/ha)
Name of Crop/Enterprises:	Kodo
Recommendations for Farmers	Cultivation of improve variety of Kodo with INM for higher yield in Kharif
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 3

Name of Discipline	Agronomy/ Plant Protection
Title of on-farm trial:	Assessment of improve variety of Maize JM 218 with IPM
Year/Season:	2003, Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of maize due to insect pest infestation
Thematic area:	IV and IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Spray of any insecticide at insect appearance
T2 –Recommended Practice-	T2- Improve variety JM 216 and spray of Ranaxypyre 20 SC
T3- Recommended Practice-	T3- Installation of Pheromon trap, Spray of <i>Beauvaria basiana</i> followed by Ranaxypyre20 SC at 30 and 45 days
Date of sowing:	First week of July
Date of harvesting:	First week of November
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	High yielding (40-45 q/ha), Management of insects properly
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	Cultivation of Maize with IPM for higher yield
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 4

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding variety of Okra (Radhika) with IPM
Year/Season:	2023 Kharif
Farming situation:	Irrigated/ Vegetable
Problem diagnosis:	Low yield of hybrid variety due to poor crop management
Thematic area:	Horticulture
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Any available hybrid
T2 –Recommended Practice-	High yielding variety Radhika with integrated pest management (Installation of Pheromon trap, Spray of <i>Beauvaria basiana</i> and Spinatorum)
T3- Recommended Practice-	--
Date of sowing:	First week of July
Date of harvesting:	First week of October
Source of technology:	NCIPM, 2016
Characteristics of technology:	Resistant to MYMV, High yielding (100-120 q/ha)
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	Cultivation of Okra in Kharif with IPM for higher yield
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 5

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Biofertiliser based INM in strawberry
Year/Season:	2023 Rabi
Farming situation:	Irrigated/ Vegetable
Problem diagnosis:	Low yield due to imbalance fertilizer application
Thematic area:	Horticulture
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Application of Chemical fertiliser
T2 –Recommended Practice-	T2-Application of Azatobactor, PSB, Mycorrhiza in soil, Pseudomonas through Drip and 50% chemical fertiliser
Date of sowing:	First week of October
Date of harvesting:	Started from Jan
Source of technology:	ICARDA, 2020
Characteristics of technology:	High monitory returns
Name of Crop/Enterprises:	Strawberry
Recommendations for Farmers	Cultivation of Strawberry with Biofertiliser based INM in Rabi season
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 6

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of IDM module for Rhizoctonia Aerial blight diseases of Soybean
Year/Season:	Low yield of Soybean due to foliar diseases
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean due to foliar diseases
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Spray of Theophanate methyl @ 1000 gm/ha
T2 –Recommended Practice-	T2- Seed treatment with <i>Trichoderma viride</i> and foliar spray of Tebuconazole + Sulpher
T3- Recommended Practice-	T3- Summer ploughing, Seed treatment with <i>Trichoderma viride</i> and foliar spray of Tebuconazole + Sulpher
Date of sowing:	First week of July
Date of harvesting:	First week of October
Source of technology:	JNKVV, 2018
Characteristics of technology:	Resistant to MYMV, High yielding (10-12 q/ha)
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	Management of Rhizoctonia Aerial blight diseases of Soybean with IDM
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 7

Name of Discipline	Plant Pathology
Title of on-farm trial:	IDM for management of Sclerotial wilt in Lentil
Year/Season:	2023 Rabi
Farming situation:	Semi-irrigated
Problem diagnosis:	Low yield of lentil due to sclerotial wilt disease
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Seed treatment with Carbendazim + mancozeb
T2 –Recommended Practice-	T2-Seed treatment with <i>Trichoderma viride</i> @ 10 gm/kg seed, and soil drenching with pseudomonas @ 2lit/ha
T3- Recommended Practice-	T3-Summer ploughing, Seed treatment with <i>Trichoderma viride</i> @ 10 gm/kg seed and spray of mixed fungicide Capton+ Hexaconazole @ 500ml/ha
Date of sowing:	Third week of October
Date of harvesting:	First week of March
Source of technology:	ICARDA, 2020
Characteristics of technology:	IDM for higher yield
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	Management of Sclerotial wilt in Lentil with IDM
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 8

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of IDM for foliar disease management in potato
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due high incidence of foliar disease in potato
Thematic area:	Vegetable, IDM
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Spray of Carbendazim + Mancozeb @ 1000gm/ha
T2 –Recommended Practice-	T2- Soil application of <i>Trichoderma viride</i> and spray of Sulpher 80 WP @ 1000 gm/ha
T3- Recommended Practice-	T3- Seed treatment and Soil application of <i>Trichoderma viride</i> and foliar spray of Tebuconazole + Sulpher @ 1000 gm/ha
Date of sowing:	First week of October
Date of harvesting:	First week of January
Source of technology:	CPRI, Shimla
Characteristics of technology:	Management of foliar disease
Name of Crop/Enterprises:	Potato
Recommendations for Farmers	IDM for Management of foliar disease of Potato
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

Title	Nil
Season & Year	Nil
Problem identified	Nil
Thematic Area	Nil
Farming situation	Nil
Name of Technology Intervention under study	Nil
Farmers Practice	Nil
No. of replication (Farmers)	Nil
Results / findings	
Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	Nil
Year/Season:	Nil
Problem diagnosis:	Nil
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nil
No of trials:	Nil
No. of farmers/farm women involved	Nil
Type of OFT (Assessment/ Refinement):	Nil
Details of technology selected for assessment:	
T1 – Farmers Practice-	Nil
T2 –Recommended Practice-	Nil
Source of technology:	Nil
Characteristics of technology:	Nil
Name of Crop/Enterprises:	Nil
Farming situation:	Nil
Date of sowing:	Nil
Date of harvesting:	Nil
Recommendations for Farmers	Nil
Recommendations for Deptt. Personnel	Nil
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	Crop production	Application of Pre-emergence weedicide Diclosolum 84 WDG for management of weeds in Soybean	Weedicide Diclosolum 84 WDG	Kharif 2023	4.0	10	Weed intensity, Yield, B:C ratio
2	Kodo	Crop production	Improve variety of Kodo (Jawahar kodo-137)	Seed	Kharif 2023	2.0	10	Yield, B:C ratio
3	Sorghum	Crop production	Improve variety CSH 30	Seed	Kharif 2023	2.0	10	Yield, B:C ratio
4	Maize	Crop production	Improve variety JM 218	Seed	Kharif 2023	2.0	5	Yield, B:C ratio
5	Brinjal	IDM	Demonstration on management of bacterial wilt of brinjal	Streptomycin, <i>Trichoderma viride</i> , Bleaching powder @ 2kg/ha	Kharif 2023	2.0	5	Disease incidence, Yield, B:C ratio
6	Garlic	Horticulture	Improve variety G 189	Seed	Rabi 2023-24	1.0	10	Yield, B:C ratio
7	Coriander	Horticulture	Improve variety- Sudha	Seed	Rabi 2023-24	1.0	10	Yield, B:C ratio
8	Bean	Horticulture	Biofertiliser and bio-control based IPM in Bean	Azotobactor, PSB, Mycorrhiza and <i>Beauveria basiana</i>	Kharif 2023	2.0	5	Disease incidence, Yield, B:C ratio
9	Onion	Horticulture	Improve variety (Seed L 883) and INM through biofertilisers	Seed L 883, Azotobactor, PSB, Mycorrhiza	Kharif 2023	2.0	5	Yield, B:C ratio
10	Napier grass	Fodder crop (Animal nutrition)	Hybrid variety (Co 5) and biofertilisers	Seed (Slips), Azotobactor and PSB	Kharif 2023	2.0	5	Yield, B:C ratio
11	Wheat	Grain storage	Pro super bag for storage of wheat	Super bags	Summer 2023	-	10	Insect infestation

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	Oct, Feb	
2	Farmers Training	8	May, June, July, Sept, Oct, Nov	
3	Media coverage	6	May, June, July, Sept, Oct, Nov, Dec	
4	Training for extension functionaries	2	June, October	

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-		-	

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	Improve variety and IPM	Seed (IPU 2-43), Seed treatment with Thiamethoxam, Application of Sulphur in soil, Spry of Insecticide for insect management	Seed, Biofertilisers, Bentonite sulphur, Thiamethoxam	Kharif 2023	20	50	Yield, Net returns, B:C ratio
2	Pigeonpea	Improve variety and IPM	Seed (BDN 711), Seed treatment with Biofertilisers, Application of Sulphur in soil, installation of pheromone trap, Spray of Insecticide for insect management	Seed, Biofertilisers, Bentonite sulphur, Ranaxypyre	Kharif 2023	20	50	Yield, Net returns, B:C ratio
3	Chickpea	Improve variety	Seed (BDN 711), Seed treatment with Biofertilisers, installation of pheromone trap	Seed, Biofertilisers, pheromone trap	Rabi 2023-24	20	50	Yield, Net returns, B:C ratio
4	Lentil	Improve variety and INM	Seed (L 4727), use of Biofertilisers, Application of Sulphur in soil, Insecticide for insect management	Seed, Biofertilisers, Bentonite sulphur, Thiamethoxam	Rabi 2023-24	20	50	Yield, Net returns, B:C ratio
5	Greengram	Improve variety and IPM	Seed (Shikha), Seed treatment with Biofertilisers, Application of Sulphur in soil, Insecticide for insect management	Seed, Biofertilisers, Bentonite sulphur, Thiamethoxam	Summer 2023-24	20	50	Yield, Net returns, B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	Oct, Feb	200
2	Farmers Training	10	May, June, July, Sept, Oct, Nov	200
3	Media coverage	5	May, June, July, Sept, Oct, Nov, Dec	500
4	Training for extension functionaries	2	June, October	40

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total									
e) Tuber crops	1	1	18	0	20	2	0	2	20
Total									
f) Spices									
Production and Management technology	1	1	18	0	20	2	0	2	20
Total									
g) Medicinal and Aromatic Plants									
Production and management technology									
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management	1	1	18	0	20	2	0	2	
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Women and child care									
Total									
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management	1	1	18	0	20	2	0	2	
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
Total									
VIII Fisheries									

[illegible]

[illegible]

development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	F/FW									
July	F/FW	Weed management	1							
October	F/FW	Seed production	1							
Horticulture										
May	F/FW	Okra cultivation	1							
October	F/FW	IDM in Potato	1							
Livestock production	-	-	-							
Home Science										
October	F/FW	Kitchen gardening	1							
Plant Protection										
April	F/FW	Grain storage	1							
August	F/FW	IDM in Kharif crops	1							
November	F/FW	IPM in Rabi crops	1							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
November	F/FW	INM in Wheat	1							

2. Off Campus

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	7	220	20	240	10	2	12	230	22	252
Kisan Mela	0	0	0	0	0	0	0	0	0	0
Kisan Ghosthi	4	220	40	240	10	5	12	230	45	275
Exhibition	2	1000	200	1200	10	2	20	1010	210	1220
Film Show	0	0	0	0	0	0	0	0	0	0
Method Demonstrations	2	10	0	10	0	0		10	0	10
Farmers Seminar	0	0	0	0	0	0	0	0	0	0
Workshop	0	0	0	0	0	0	0	0	0	0
Group meetings	0	0	0	0	0	0	0	0	0	0
Lectures delivered as resource persons	15	500	50	550	10	2	12	510	60	610
Newspaper coverage	10	1000	200	1200	10	3	13	1010	210	1220
Radio talks	2	500	100	600	10	2	12	510	110	620
TV talks	1	500	100	600	10	4	14	510	110	620
Popular articles	4	1000	200	1200	10	2	12	1010	210	1220
Extension Literature	4	500	100	600	10	3	13	510	110	620
Advisory Services	4	200	200	400	10	2	12	210	210	430
Scientific visit to farmers field	24	220	40	240	10	5	15	230	45	275
Farmers visit to KVK	10	220	40	240	10	5	15	230	45	275
Diagnostic visits	2	20	0	20	0	0	0	20	0	20
Exposure visits	2	20	0	20	0	0	0	20	0	20
Ex-trainees Sammelan	1	25	5	30	0	0	0	25	5	30
Soil health Camp	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	0	0	0	0	0	0	0	0	0	0
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	3	100	10	110	5	3	8	105	13	118
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	96	6275	1305	7580	125	40	165	6400	1345	7745

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	C 306	100
OILSEEDS	Soybean	JS 2172	50
	Soybean	JS 20116	100
PULSES	Pigeonpea	BDN 711	20
	Chickpea	JG 24	25
	Lentil	L 4727	25
	Blackgram	Indira 1	10
VEGETABLES	Nil		
FLOWER CROPS	Nil		
OTHERS	GARLIC	G 189	40
	CORIANDER	Sudha	05

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-		
SPICES	-		
VEGETABLES	-		
FOREST SPECIES	-		
ORNAMENTAL CROPS	-		
PLANTATION CROPS	-		
Others (specify)	-		

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	viride		200
2	Pseudomonas	floroscence		200
3				
BIOFERTILIZERS				
1	Azotobactor			100

2	PSB			100
3	<i>Rhizobium</i>			50
	VAM			50
BIO PESTICIDES				
1	Beuvaria basiana			50
2	Verticilium			50

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
2021	Quqterly	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case: 04 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA
3	In-service personnel	PRA
4	methodology for identifying OFTs/FLDs	PRA
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Rajwans	Rehli	38
2	Sonpur	Kesli	32
3	Khajuria- Berkhedi	Rahatgarh	104
4	Kanskheda	Deori	6
5	Jamnapur Parasia	Deori	28

1. No. of farm families selected per village : 25
2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: Not Established

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Nil		
2			

3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	342	342	26	Nil
Water Samples	0	0	0	
Total	342	342	26	

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture Department/ ATMA	Trainings to farmers and farmwomen, Krishak sangoshthi, Field visit
Horticulture Department	Trainings to farmers and farmwomen, Krishak sangoshthi, Field visit
SRLM	Trainings to farmers and farmwomen
Women and child welfare Department	Trainings to farmwomen
Veterinary Department	Trainings to farmers
NGos	Trainings to farmers and farmwomen, Krishak sangoshthi, Field visit
M. P. Seed corporation	Seed production

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage
Interface	Technical input
Trainings to farmers and farmwomen	Technical input
Demonstrations	Technical input

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Nil	

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes- natural farming

Month	Activity details	Targeted Beneficiaries /Area/Coverage
Jan 2023	Awareness programme	100
Feb 2023	Awareness programme	50
March 2023	Awareness programme	100
April 2023	Awareness programme	50
May 2023	Awareness programme	50
June 2023	Demonstrations, Training and Awareness programme	100
July 2023	Awareness programme	50
August 2023	Awareness programme	200
September 2023	Awareness programme	100
October 2023	Demonstrations, Training and Awareness programme	150
November 2023	Awareness programme	100
December 2023	Awareness programme	100
Jan 2023	Awareness programme	100
Feb 2023	Awareness programme	50

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 2000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Blackgram	Kharif	IPU 2-42, Pratap-1, Indira Urd-1, IPU 13-1, MU 2, IPU 94-1,		2000
Soybean	Kharif	JS 2172, JS 20116, RVS 1135, RVS 2001-4, JS 2098, JS 2069,		
Kodo	Kharif	Indira-9, JK 137		
Chickpea	Rabi	JG 24, JG 36, JG 14, JG 12, RVG 202, RVG 203		
Lentil	Rabi	L 4727, L 4717, RVL 11-06, RVL 31, JL 3IPL 316		
Linseed	Rabi	JLS 122, JLS 9, JLS 27, JLS 95		
Wheat	Rabi	C 306, JW 3288, JW 3211, HI 1544, JW 3465, JW 3382, HI 8759, HI 8713, JW 3336		
Greengram	Summer	MH 421, PDM 139, Shikha, Virat, Pusa vishal		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Nursery unit	Seedling production	200	
Kitchen garden	Round the year vegetables	500	
Crop cafeteria	Performance of varieties	2000	

ANNUAL ACTION PLAN 2023

KVK: Seoni

Year of sanction: October 1994

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. S. S. Baghel	-	9425888646	ssbatic@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S . N o .	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. S. S. Baghel	Senior Scientist & Head	Soil science	(37400-67000) +9000/- Level 13 A 131400	01-02-2019	01-02-2019	9425888646	ssbatic@rediffmail.com	
2	Subject Matter Specialist	Dr. K.K. Deshmukh	Scientist	Soil science	(15600-39100) + 7000/- Level 11 101100	08-03-2007	08-03-2007	9981102053	deshmukhk70@yahoo.com	
3	Subject Matter Specialist	Dr. N.K. Singh	Scientist	Horticulture	(15600-39100) + 7000/- Level 11 101100	04-06-2007	04-06-2007	7987213802	nikhilsingh478@gmail.com	
4	Subject Matter Specialist	Dr. R.S. Thakur	Scientist	Food Scientist	(15600-39100) + 6000/- Level 10 57700	29-01-2019	29-01-2019	9179391442	rsthakur@jnkvv.org	
5	Subject Matter Specialist	-		-	-	-				
6	Subject Matter Specialist	-		-	-	-				
7	Subject Matter Specialist	-		-	-	-				

8	Programme Assistant	Dr. G.K. Rana	Programme Assistant	Food Science	(9300-34800) + 4200/- Level 10 42700	11-02-2019	11-02-2019	9589551223	ranagk@jnkvv.org	
9	Computer Programmer/ Programme Assistant	Dr. K.P.S. Saini	Programme Assistant	Veterinary	(9300-34800) + 4200/- Level 10 42700	20-08-2019	20-08-2019	9936066454s	kiranpal5104@gmail.com	
10	Farm Manager	Er. Kumar Soni	Programme Assistant	Agriculture Engineering	(9300-34800) + 4200/- Level 10 42700	25-01-2019	09-08-2021	9977463382	kumar.jnkvv@gmail.com	
11	Assistant	Smt. Abha Shrivastava Asstt. Gri. II		-	5200-20200+ 2400 Level 07 43500	21-08-95 KVK 20.07.2011	20.07.2011	6261425292	-	
12	Jr. Stenographer / Comp. Operator	Shubham Jhariya Asstt. Grade III		-	5200-20200+ 1900 Level 04 19500	25/02/2019	25/02/2019	9617804038	subhamjhariya5943@gmail.com	
13	Driver	Shiv Shankar Mishra		-	5200-20200+ 1900 Level 06 31200	07-07-08	07-07-08	7828625278	-	
14	Driver	Devi Prasad Tiwari		-	5200-20200+ 1900 Level 06 31200	09-07-08	09-07-08	8120091201	-	

15	Supporting staff			-						
16	Supporting staff			-						

1.3 Total land with KVK (in ha): 15 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.40
2	Under Demonstration Units	0.80
3	Under Crops	11.0
4	Orchard/Agro-forestry	0.60
5	Others (specify) Nala ,WHT, Road ,Staff Quarter	2.20
Total		15.00

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2004	390.67	4570000	-	-	-
2	Farmers Hostel	ICAR	2007	390.67	2641000	-	-	-
3	Staff Quarters (6)	ICAR	2009	270.5	2790000	-	-	-
4	Demonstration Units (2)	IFS	2014	1.0	400000	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	ICAR	2011	4000.00	660000	-	-	-
7	Threshing floor	ICAR	2004	600	150000	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) `Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	1999	-	-	Un Serviceable
Motor Cycle 2	2010	49931	401329	Serviceable
Bolero(Jeep)	2012	501963	161030	Serviceable
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2016	39653	Serviceable
Projector	2007	58998	Unserviceable
Xerox Machine	2005	9800	Unserviceable
Generator	-	-	-
Video Camera	2012	19990	Serviceable
Computer Intel Pentium Computer	2007	31173	Serviceable
Computer HP	2016	38766	Serviceable
Computer HP	2016	45766	Serviceable
Computer	-	-	-
Computer	-	-	-
Laser Printer Printer HP Laserjet 1020	2007	6695	Serviceable

Laser Printer Printer HP Laserjet 2400	2007	2925	Unserviceable
Laser Printer	2016	77500	Serviceable
Laser Printer Brother Printer	2022	9800	Serviceable
UPS 600 VA	2007	2350	Unserviceable
Stabilizer 2 KVA	-	-	-
Stabilizer	2017	17500	Working
Inverter 600 VA (2)	-	-	-
Inverter Battery (2)	2020	11500	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	26.06.2023
2	25.11.2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Maize -Wheat, Soybean-Gram, Paddy-Wheat, Paddy-Fallow
2	AES – 2	Maize -Wheat, Maize -Gram, Rice-Fallow, Rice -Gram
3	AES – 3	Maize -Wheat, Rice-Gram, Rice-Fallow, Niger-Fallow

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Sandy, deep soil
2	AES - 2	Shallow black & red soil
3	AES – 3	Stony shallow red soil

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
☐ Productive Fertile Soil	☐ Rainfed Condition	☐ Introduction of Pulses & Oilseed crop	☐ Low income

AES-2 (name)

Strength	Weakness	Opportunities	Threats
☐ Productive Fertile Soil	☐ Rainfed Condition	☐ Introduction of Pulses & Oilseed crop	☐ Low income

AES-3 (name)

Strength	Weakness	Opportunities	Threats
☐ Productive Fertile Soil	☐ Rainfed Condition	☐ Introduction of Pulses & Oilseed crop	☐ Low income

AES-4 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	875.40
Forest	328.20
Waste Land	38.20
Other than cultivated area	12.90
Cultivable waste and alkaline land	17.90
Pastures	31.10
Bushes	14.39
Current Fallow	27.50
Other Fallow	-
Agricultural Land	591.00
Area Sown	
Kharif	435.00
Rabi	348.00
Zaid	11.500
Cropping Intensity	134%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	41809
2	Well	42716
3	Tube well	83128
4	Ponds	89
5	Others	132

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep to medium black soil	• Soil Depth- 50 to 120 cms • Soil texture- clayey • pH-6.9-7.8 • Cat ion exchange capacity- 35 to 55 cmol (p+) kg-1	223.40
2	Shallow to medium black, deep sandy loam	• Soil Depth: 30 to 50 cms • Soil texture: clay loam to sandy loam • pH: 5.9-7.2	124.1
3	Shallow red black gravely soil	• Soil Depth: varied from 10cm to 50 cm • Soil texture: light textured • pH: 5.5 – 7.9	148.90

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area ('000 ha)	Production (metric ton)	Productivity (kg/ha)
1	Maize	151.00	329.18	2180
2	Soybean	20.40	27.94	1370
3	Paddy	206.50	741.335	3590

4	Pigeonpea	22.90	47.632	2080
5	Wheat	250.00	1132.5	4530
6	Gram	50.00	102.25	2045
7	Lentil	15.00	12.51	810
8	Linseed	3.00	1.41	470

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	00	24	09
Feb, 22	00	29	13
Mar, 22	00	34	17
Apr, 22	19	38	19
May, 22	87	43	19
Jun, 22	230	45	21
July, 2022	490	42	22
Aug., 2022	310	41	20
Sept., 2022	110	39	19
Oct. 2022	00	31	18
Nov. 2022	00	27	14
Dec. 2022	00	28	09

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	448219	260.23 MT.	4.150 kg
Buffalo	115066		
Sheep			
Crossbred/ Indigenous	91	...NIL... MT wool	...NIL... kg
Goats	215255	...NIL... MT	...NIL... kg
Pigs Crossbred/ Indigenous	1540	...NIL...	...NIL...
Rabbits	145		
Poultry			
Hens	272325	335.68 Lakh eggs	65 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	654. (ha)	19620.Q/ month	30. Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Seoni	Kurai	Setewani, Rampuri, Wahidabad, Chikhli	Paddy, Pigeonpea, Chickpea, Mustard, Sesame, Poultry Birds and animal feeds	Low yield, Low return, inadequate supply of nutrient, lack of knowledge	Nutritional security, employment generation, improve varieties,

				(Green fodder, Mineral Mixture)	about crop production, local variety	green fodder scarcity, INM, IPM, IFS
2	Seoni	Seoni	Lakhanwada, Fareda, Khairitek, Marjhoor, Simariya Chidiya palari,Dheka,Singhori,	Paddy, Soybean Maize, Chickpea, Mustard, Poultry Birds and animal feeds (Green fodder, Mineral Mixture), Machinery	Low yield, Low return, inadequate supply of nutrient, lack of knowledge about crop production, local variety	Nutritional security, employment generation, improve varieties, green fodder scarcity, INM, IFS, Farm mechanization
3	Seoni	Barghat	Kanchna, Jevnara, Lohara, Borikhurd, Ankhiwada, Dondiwada, Tikari	Paddy, Wheat Chickpea, Mustard, Poultry Birds and animal feeds (Green fodder, Mineral Mixture), Machinery	Low yield, Low return, inadequate supply of nutrient, lack of knowledge about crop production, local variety	Nutritional security, employment generation, improve varieties, green fodder scarcity, INM, IFS,
4	Seoni	Chhapara	Chhapara, Khairmatakol, Khairnara,	Paddy, Wheat Chickpea, Mustard, Poultry Birds and animal feeds (Green fodder, Mineral Mixture), Machinery	Low yield, Low return, inadequate supply of nutrient, lack of knowledge about crop production, local variety	Nutritional security, employment generation, improve varieties, green fodder scarcity, INM, IFS,
5	Seoni	Dhanora	Khirkhiri, Tuaghoghra, Gunguj	Paddy, Wheat Chickpea, , Machinery	Low yield, Low return, inadequate supply of nutrient, lack of knowledge about crop production, local variety	improve varieties, green fodder scarcity, INM, IFS,
6	Seoni	Lakhnadone	Harai, Sarasdol	Paddy, Chickpea, Mustard, Sesame, Poultry Birds and animal feeds	Low yield, Low return, inadequate supply of nutrient, lack of knowledge about crop production,	Nutritional security, improve varieties, green fodder scarcity, INM, IPM, IFS

Priority / Thrust areas

S. No.	Particulars
1	Crop and Varietals Diversification.
2	Use of waste decomposer for Sustainable Agriculture.
3	Resource conservation through watershed management .soil & water management as well as Farm Mechanization
4	Off Season vegetable cultivation
5	Popularization of improved variety of vegetables.
6	Plant nutrient management as per STV in Crops
7	Linseed – Varietals adoption and fertilizer management
8	Vegetable - Popularization of improved variety, hybrids of vegetables, Plant protection in vegetables
9	Varietal -availability, sowing method ridge & furrow method & Nutrient Management.
10	Popularization of Sweet corn cultivation
11	Popularization of Quinoa crop in rice fallow cropping system
12	Fruit Crop - Popularization of Rejuvenation technique in Guava and Mango.
13	Popularization of improved production and management technology of Fruit Crops
14	Popularization and value addition of Water chestnut Farming.
15	Empowering the farm women through income generation activity
16	Value addition of Soybean ,Ber ,Lac ,Guva in Rural areas
17	Drudgery and increased efficiency of farm women through improved technology
18	Enhancing productivity of pulse crops through Cluster Front Line Demonstration
19	Empowerment of farm women and rural youth through income generating activities & drudgery reduction

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
17	85	15	150

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
63	1575	160	3715

Seed Production (Qtl.)	Planting material (Nos.)
464	37000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FL D if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Income generation	Maize (Sweet Corn)	Low income & storage loss of traditional maize production.	Assessment of sweet corn hybrid Sugar-75 for income generation	-	-	-	-	-
2	Nutrient Sensitive Agriculture	Pearl Millet	Low production and inadequate nutritional supply in millets growing area.	Assessment of Bio-fortified variety of Pearl Millet AHB 1200.	-	-	-	-	-
3	Reduction in storage loss.	Cereal and Pulses.	Heavy infestation of storage grain pest.	Assessment of reduction in storage loss through pro-super bag.	-	-	-	-	-
4	Nutritional Security	Multigrain Atta (Flour)	Inadequate supply of protein & minerals.	Assessment of Multigrain Atta (Flour) consumption.	-	-	-	-	-
5	Resource conservation technology	Mulcher Machine	Short time window for Rabi-crop, deterioration soil organic carbon	Assessment of Mulcher Machine for maize-wheat/chickpea cropping system.	-	-	-	-	-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
Natural Farming	Rice, Kutki, Wheat									3
SFM	Maize									1
HOV					Brinjal, Chilli, Cauliflower, Coriander					4
TOTAL	4				4					8

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Livestock Production Management	Dairy cattle, Buffalo, Dairy Animal			Goat				4
TOTAL	3			1				4

Details of On Farm Trial (OFT)

OFT-1

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of Natural Farming Inputs in Rice crop variety Jeera Shankar.
Problem diagnosed	Unavailability of Chemical fertilizers, Low organic carbon content & soil microbes in soil.
Farmers' practices	T1: NPK- 100:46:00
Details of technologies selected for assessment/refinement Treatments	T2: Seed treatment with Beejamrit, Jeevamrit @ 5% & 10%, Ghanjeevamrit @ 5qtl/ha. T3: T2 + Dashparni Ark @3% spray, Gibrallitic Tonic @ 375lt/ha, Neemastra @375lt/ ha & Khatichach @ 375lt/ha.
Source of technology	Book- <i>Kam Lagat Prakratik Kheti</i> , Author- Shri Acharya Devrat, year- 2019
Plot size	0.4 ha
No. of farmers	05
Total cost	15000
Critical input	Besan , Jaggery, Plastic Drum, Lime, Chilli
Performance indicators: i. Technical- yield (q/ ha) ii. Economic iii. Social – Employment generation	Soil Organic Carbon Content & Yield (qt/ha).

OFT-2

Crop/Enterprise	Kutki
Title of on-farm trial	Assessment of Beejamrit ,Ghanjeevamrit & Jeevamrit in Kutki variety JK-4
Problem diagnosed	Low yield due to traditional old variety.
Farmers' practices	T1: NPK-00:00:00
Details of technologies selected for assessment/refinement Treatments	T2: Ghanjeevamrit @ 8.0 qt/ha T3: Ghanjeevamrit @ 8.0 qt/ha +Jeevamrit @ 5% & 10% foliar spray.
Source of technology	Book- <i>Kam Lagat Prakratik Kheti</i> , Author- Shri Acharya Devrat, year- 2019
Plot Size	0.4 ha
No. of farmers	05
Total cost	3000
Critical input	Kutki variety JK-4, Besan , Jaggery, Plastic Drum
Performance indicators: i. Technical- yield (q/ ha) ii. Economic iii. Social – Employment generation	Yield (qt/ha)

OFT 3

Crop/Enterprise	Brinjal
Title of on-farm trial	Assessment of Yield potential of brinjal through application of Biofertilisat & Pseudomonas
Problem diagnosed	Low yield of brinjal due to indiscriminate use of Chemical fertilizer
Farmers' practices	T1No use of Bio inoculants
Details of technologies selected for assessment/refinement Treatments	T2 Soil application of Biofertilisat @ 2 Litre mix in FYM & Foliar Application of Biofertilisat @ 5 ml/Litre Water 30 & 45 DAT T3 Soil application of Biofertilisat @ 2 Litre mix in FYM & Foliar Application of Pseudomonas @ 10 ml & Biofertilisat @ 5 ml/Litre Water 30 & 45 DAT
Source of technology	JNKVV ,2019
Plot Size	0.4 ha
No. of farmers	5
Total cost	5000
Critical input	Biofortisol & Pseudomonas
Performance indicators: i. Technical- yield (q/ ha) ii. Economic iii. Social – Employment generation	No of Fruit/ Plant , Yield (qt/ha)

OFT 4

Crop/Enterprise	Chilli
Title of on-farm trial	Assessment of IDM module for management of leaf curl disease in chilli
Problem diagnosed	Low yield of chilli crop due to leaf curl virus resulting heavy losses to growers
Farmers' practices	T1No use of Suitable pesticide
Details of technologies selected for assessment/refinement Treatments	T2 Seedling Treatment with Imidachlorpid 17.8 SL @ 5.0 ml/15 lit before transplanting + Spray of Neem oil @ 5 ml/lit + Spray of Imidachlorpid 17.8SL @ 200 ml/ha T3 Spray of Sulphur 80 WP @ 2.5gm/lit + Spray of Acetamiprid 20 SP @ 20 g/ha+ Verticillium @ 1 Litre /ha + Installation of blue sticky trap
Source of technology	ICAR IIVR, 2018
	0.4 ha
No. of farmers	5
Total cost	10000
Critical input	Imidachlorpid 17.8 SL, Neem oil, Acetamiprid 20 SP & Verticillium
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	No of Fruit/ Plant , Yield (qt/ha)

OFT 5

Crop/Enterprise	Dairy cattle
Title of on-farm trial	Assessment of deworming in dairy cattle.
Problem diagnosed	Low milk yield due to heavy parasitic infestation
Farming situation	Rainfed
Production system and thematic area	LPM
Farmers' practices	No use of anti-parasitic drug to control Ecto-endo parasite
Details of technologies selected for assessment/refinement Treatments	T1: No use of anti-parasitic drug to control Ecto-endo parasite T2: Control of Ecto- endo parasites by using correct anti-parasitic drug.
Source of technology	NDVSU Jabalpur 2012
No. of animals	05
No. of farmers	05
Total cost	2300
Critical input	Anti-parasitic Drug
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Average milk yield (Lit/Day)

OFT 6

Crop/Enterprise	Goat
Title of on-farm trial	Assessment of Mineral Blocks in Goats.
Problem diagnosed	Deficiency of mineral mixture in goat.
Farming situation	Rainfed
Production system and thematic area	LPM
Farmers' practices	No use of mineral mixture in goat.
Details of technologies selected for assessment/refinement Treatments	T1: No use of mineral mixture. T2: Feeding Mineral Mixture Blocks @ 1Block / Week.
Source of technology	NDVSU, Jabalpur 2014
No. of animals	05
No. of farmers	05
Total cost	5000
Critical input	Mineral Mixture Blocks
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Growth%, Average milk yield (Lit/Day)

OFT 7

Crop/Enterprise	Maize (Sweet Corn)
Title of on-farm trial	Assessment of sweet corn hybrid Sugar-75 for income generation
Problem diagnosed	Low income & storage loss of traditional maize production.
Farmers' practices	Traditional maize production
Details of technologies selected for assessment/refinement Treatments	T1: Traditional maize production T2: Sweet corn maize production (Honey max/sugar 75)
Source of technology	JNKVV, Jabalpur 2016
Plot Size	0.2 acre
No. of farmers	05
Total cost	8000
Critical input	Seed
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Sale of green cob

OFT 8

Crop/Enterprise	Pearl Millet
Title of on-farm trial	Assessment of Bio-fortified variety of Pearl Millet AHB 1200
Problem diagnosed	Low production and inadequate nutritional supply in millets growing area.
Farmers' practices	Growing of local variety of millet.

Details of technologies selected for assessment/refinement Treatments	T1: Local variety of millet. T2: AHB 1200 variety of millet.
Source of technology	(ICAR) Indian Institute of Millet Research, Hyderabad 2014
Plot Size	0.2 acre
No. of farmers	05
Total cost	3000
Critical input	Seed of Pearl Millet AHB 1200
Performance indicators Observation to be recor Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation ded	HB test.

OFT 9

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Natural Farming Inputs in Wheat (<i>Triticum aestivum</i>) crop.
Problem diagnosed	Timely unavailability of Chemical fertilizers, low organic carbon content & soil microbes in soil.
Farmers' practices	T1: NPK- 100:46:00
Details of technologies selected for assessment/refinement Treatments	T2: Seed treatment with Beejamrit, Jeevamrit @ 5% & 10%,Ghanjeevamrit @ 5qtl/ha. T3: T2 + Dashparni Ark @3% spray, Gibrallc Tonic @ 375lt/ha, Neemastra @375lt/ ha & Khatichach @ 375lt/ha.
Source of technology	Book- <i>Kam Lagat Prakratik Kheti</i> , Author- Shri Acharya Devrat, 2019
Plot Size	0.4 ha
No. of farmers	05
Total cost	1500
Critical input	Besan , Jaggery, Plastic Drum
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Soil Organic Carbon Content, Yield (Qtl/ha)

OFT 10

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of Sulphur in Mustard crop.
Problem diagnosed	Low yield due to Sulphur deficiency in soil.
Farmers' practices	T1: NPK- 60:25:00
Details of technologies selected for assessment/refinement Treatments	T2: NPK- 90:40:25 T3: NPK- 90:40:25 + 40S
Source of technology	JNKVV, Jabalpur, 2008

Plot Size	2 ha
No. of farmers	05
Total cost	7000
Critical input	Sulphur containing fertilizer
Performance indicators: Technical- yield (q/ ha) Economic Social – Employment generation	Yield (Qtl/ha)

OFT 11

Crop/Enterprise	Cauliflower
Title of on-farm trial	Assessment of Yield potential of Cauliflower through application of Bio inoculants
Problem diagnosed	Low yield of Cauliflower due to indiscriminate use of Chemical fertilizer
Farmers' practices	T1 No use of Bio inoculants
Details of technologies selected for assessment/refinement Treatments	T2 Soil application of Biofertilisol & PSB @ 2 Litre mix in FYM & Foliar Application of Biofertilisol @ 5 ml/Litre Water 30 & 45 DAT T3 Soil application of Biofertilisol @ 2 Litre mix in FYM & Foliar Application of Pseudomonas @ 10 ml & Biofertilisol @ 5 ml/Litre Water 30 & 45 DAT
Source of technology	JNKVV ,2019
Plot Size	0.4 ha
No. of farmers	5
Total cost	10000
Critical input	Biofertilisol, PSB & Pseudomonas
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Curd Weight (gm) , Yield (qt/ha)

OFT 12

Crop/Enterprise	Coriander
Title of on-farm trial	Assessment of high yielding variety of Coriander ACR-1
Problem diagnosed	Low yield of Coriander due to use of old variety infected by stem gall
Farmers' practices	T1 Old variety S-33
Details of technologies selected for assessment/refinement Treatments	T2 High yielding variety of Coriander ACR-1 T3 High yielding variety of Coriander ACR-2
Source of technology	NRCSS, Ajmer 2017-18
Plot Size	0.2 ha
No. of farmers	5
Total cost	10000
Critical input	Seed of Coriander variety ACR-1 & ACR-2
Performance indicators:	No. of Umbells /plant , No. of Umbellets / plants , Seed Yield (q/ha)

i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	

OFT 13

Crop/Enterprise	Buffalo
Title of on-farm trial	Assessment of Azolla feeding as a green fodder supplement in lean period on milk production in buffalo.
Problem diagnosed	Low milk production due to unavailability of green fodder in the lean period in buffaloes.
Farming situation	Rainfed
Production system and thematic area	LPM
Farmers' practices	Feeding only Dry fodder.
Details of technologies selected for assessment/refinement Treatments	T1: Feeding only Dry fodder T2: Feeding Dry fodder along with Azolla @ 1 to 1.5 kg/animal/day.
Source of technology	NDVSU Jabalpur 2012
No. of farmers	05
No. of animals	10
Total cost	1700
Critical input	Azolla
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Average milk yield (Lit/Day)

OFT 14

Crop/Enterprise	Dairy Animal
Title of on-farm trial	Assessment feeding of oral calcium and phosphorus supplement on milk production in dairy animal.
Problem diagnosed	Low milk production due to deficiency of calcium in dairy animal feed.
Farming situation	Rainfed
Production system and thematic area	LPM
Farmers' practices	T1: No oral calcium supplement in feed.

Details of technologies selected for assessment/refinement Treatments	T1: No oral calcium supplement in feed T2: Oral calcium and phosphorus supplement in feed @10ml/day/animal for 2 months.
Source of technology	NDRI, Haryana 2015
No. of farmers	05
No. of animals	10
Total cost	6000
Critical input	Oral calcium and phosphorus supplement
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Average milk yield (Lit/Day)

OFT 15

Crop/Enterprise	Cereal and Pulses.
Title of on-farm trial	Assessment of reduction in storage loss through pro-super bag.
Problem diagnosed	Heavy infestation of storage grain pest.
Farmers' practices	Use of Gunny bag or polyethylene bags.
Details of technologies selected for assessment/refinement Treatments	T1: Use of conventional storage practice. T2: Mahua Oil @ 10ml/kg grain. T3: Pro-super bag.
Source of technology	IRRI, 2011
No. of farmers	05
Total cost	5000
Critical input	Pro-super bag.
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Sampling & Inspection.

OFT 16

Crop/Enterprise	Multigrain Atta (Flour)
Title of on-farm trial	Assessment of Multigrain Atta (Flour) consumption.

Problem diagnosed	Inadequate supply of protein & minerals.
Farmers' practices	Use of wheat or rice flour.
Details of technologies selected for assessment/refinement Treatments	T1: Use of wheat or rice flour. T2: Wheat + Green gram + Ragi (80:10:10)
Source of technology	CFTRI, Mysuru 2012
No. of farmers	05
Total cost	2000
Critical input	Green gram & Ragi.
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Body Weight , Height & BMI

OFT 17

Crop/Enterprise	Mulcher Machine
Title of on-farm trial	Assessment of Mulcher Machine for maize-wheat/ chickpea cropping system.
Problem diagnosed	Short time window for Rabi-crop, deterioration soil organic carbon
Farmers' practices	T1: Crop residue burring + 2x cultivator + 1x Rotavator + sowing
Details of technologies selected for assessment/refinement Treatments	T2: Mulcher machining (mulching) + Rotavator + sowing T3: T2 + Application of Bio digester
Source of technology	PAU, Ludhiana - 2008
Plot Size	2 ha
No. of farmers	05
Total cost	8000
Critical input	Mulcher Machine
Performance indicators: i. Technical- yield (q/ ha) ii. Economic Social – Employment generation	Organic Carbon %, Field Capacity (ha/ hr), Yield (qt/acre)

Detailed Information about OFT:**OFT 1**

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Natural Farming Inputs in Rice crop variety Jeera Shankar.
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Unavailability of Chemical fertilizers, Low organic carbon content & soil microbes in soil.
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	NPK- 100:46:00
T2 –Recommended Practice-	T2: Seed treatment with Beejamrit, Jeevamrit @ 5% & 10%,Ghanjeevamrit @ 5qtl/ha.
T3- Recommended Practice-	T3: T2 + Dashparni Ark @3% spray, Gibrallic Tonic @ 375lt/ha, Neemastra @375lt/ha & Khatichach @ 375lt/ha.
Date of sowing:	
Date of harvesting:	
Source of technology:	Book- <i>Kam Lagat Prakratik Kheti</i> , Author- Shri Acharya Devrat, 2019
Characteristics of technology:	Rice
Name of Crop/Enterprises:	Jeera Shankar.
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Beejamrit ,Ghanjeevamrit & Jeevamrit in Kutki (JK-4)
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to traditional old variety.

Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	NPK-00:00:00
T2 –Recommended Practice-	Ghanjeevamrit @ 8 qt/ha
T3- Recommended Practice-	Ghanjeevamrit @ 8 qt/ha +Jeevamrit @ 5% & 10% folliar spray.
Date of sowing:	
Date of harvesting:	
Source of technology:	Book- <i>Kam Lagat Prakratik Kheti</i> , Author- Shri Acharya Devrat, 2019
Characteristics of technology:	
Name of Crop/Enterprises:	Kutki (JK-4)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Yield potential of brinjal through application of Biofertilisol & Pseudomonas
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of brinjal due to indiscriminate use of Chemical fertilizer
Thematic area:	HOV
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Bio inoculants
T2 –Recommended Practice-	Soil application of Biofertilisol @ 2 Litre mix in FYM & Foliar Application of Biofertilisol @ 5 ml/Litre Water 30 & 45 DAT
T3- Recommended Practice-	Soil application of Biofertilisol @ 2 Litre mix in FYM & Foliar Application of Pseudomonas @ 10 ml & Biofertilisol @ 5 ml/Litre Water 30 & 45 DAT
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	

Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of IDM module for management of leaf curl disease in chilli
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chilli crop due to leaf curl virus resulting heavy losses to growers
Thematic area:	HOV
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Suitable pesticide
T2 –Recommended Practice-	Seedling Treatment with Imidachlorprid 17.8 SL @ 5.0 ml/15 lit before transplanting + Spray of Neem oil @ 5 ml/lit + Spray of Imidachlorprid 17.8 SL @ 200 ml/ha
T3- Recommended Practice-	Spray of Sulphur 80 WP @ 2.5gm/lit + Spray of Acetamiprid 20 SP @ 20 g/ha+ Verticillium @ 1 Litre /ha+ Installation of blue sticky trap
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR IIVR, 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of deworming in dairy cattle.
Year/Season:	Kharif 2023
Farming situation:	Rainfed

Problem diagnosis:	Low milk yield due to heavy parasitic infestation
Thematic area:	Livestock Production Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of anti-parasitic drug to control Ecto-endo parasite
T2 –Recommended Practice-	Control of Ecto- endo parasites by using correct anti-parasitic drug.
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	NDVSU Jabalpur 2012
Characteristics of technology:	
Name of Crop/Enterprises:	Dairy cattle
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 6

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of Mineral Blocks in Goats.
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Deficiency of mineral mixture in goat.
Thematic area:	Livestock Production Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of mineral mixture in goat.
T2 –Recommended Practice-	Feeding Mineral Mixture Blocks @ 1Block / Week
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NDVSU, Jabalpur 2014
Characteristics of technology:	
Name of Crop/Enterprises:	Goats
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 7

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Natural Farming Inputs in Wheat (Triticum aestivum) crop.
Year/Season:	Rabi 2023-24
Farming situation:	Rainfed
Problem diagnosis:	Timely unavailability of Chemical fertilizers, low organic carbon content & soil microbes in soil.
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	NPK- 100:46:00
T2 –Recommended Practice-	T2: Seed treatment with Beejamrit, Jeevamrit @ 5% & 10%,Ghanjeevamrit @ 5qtl/ha.
T3- Recommended Practice-	T3: T2 + Dashparni Ark @3% spray, Gibrallic Tonic @ 375lt/ha, Neemastra @375lt/ ha & Khatichach @ 375lt/ha.
Date of sowing:	
Date of harvesting:	
Source of technology:	Book- <i>Kam Lagat Prakratik Kheti</i> , Author- Shri Acharya Devrat, 2019
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 8

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Sulphur in Mustard crop.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to Sulphur deficiency in soil.
Thematic area:	SFM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: NPK- 60:25:00
T2 –Recommended Practice-	T2: NPK- 90:40:25
T3- Recommended Practice-	T3: NPK- 90:40:25 + 40S
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, Jabalpur, 2008
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 9

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Yield potential of Cauliflower through application of Bio inoculants
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Cauliflower due to indiscriminate use of Chemical fertilizer
Thematic area:	HOV
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Bio inoculants
T2 –Recommended Practice-	Soil application of Biofertiliser & PSB @ 2 Litre mix in FYM & Foliar Application of Biofertiliser @ 5 ml/Litre Water 30 & 45 DAT
T3- Recommended Practice-	Soil application of Biofertiliser @ 2 Litre mix in FYM & Foliar Application of Pseudomonas @ 10 ml & Biofertiliser @ 5 ml/Litre Water 30 & 45 DAT
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV ,2019
Characteristics of technology:	
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 10

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of high yielding variety of Coriander ACR-1
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Coriander due to use of old variety infected by stem gall
Thematic area:	HOS
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old variety S-33
T2 –Recommended Practice-	High yielding variety of Coriander ACR-1
T3- Recommended Practice-	High yielding variety of Coriander ACR-2
Date of sowing:	
Date of harvesting:	
Source of technology:	NRCSS, Ajmer 2017-18
Characteristics of technology:	
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 11

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of Azolla feeding as a green fodder supplement in lean period on milk production in buffalo.
Year/Season:	Rabi 2023-24
Farming situation:	Rainfed
Problem diagnosis:	Low milk production due to unavailability of green fodder in the lean period in buffaloes.
Thematic area:	Livestock Production Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Feeding only Dry fodder

T2 –Recommended Practice-	Feeding Dry fodder along with Azolla @ 1 to 1.5 kg/animal/day.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NDVSU Jabalpur 2012
Characteristics of technology:	
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment feeding of oral calcium and phosphorus supplement on milk production in dairy animal.
Year/Season:	Rabi 2023-24
Farming situation:	Rainfed
Problem diagnosis:	Low milk production due to deficiency of calcium in dairy animal feed.
Thematic area:	Livestock Production Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No oral calcium supplement in feed.
T2 –Recommended Practice-	Oral calcium and phosphorus supplement in feed @10ml/day/animal for 2 months
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NDRI Haryana 2015
Characteristics of technology:	
Name of Crop/Enterprises:	Dairy animal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of Mulcher Machine for maize-wheat/ chickpea cropping system.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Short time window for Rabi-crop, deterioration soil organic carbon
Thematic area:	Resource conservation technology
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Crop residue burring + 2x cultivator + 1x Rotavator + sowing
T2 –Recommended Practice-	Mulcher maching (mulching) + Rotavator + sowing
T3- Recommended Practice-	T2 + Application of Bio digester
Date of sowing:	
Date of harvesting:	
Source of technology:	PAU, Ludhiana - 2008
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

**Information about Home Science OFT:
OFT 14**

Title of on-farm trial:	Assessment of sweet corn hybrid Sugar-75 for income generation
Year/Season:	Kharif 2023
Problem diagnosis:	Low income & storage loss of traditional maize production.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Traditional maize production
T2 –Recommended Practice-	Sweet corn maize production (Honey max/sugar 75)
Source of technology:	JNKVV, Jabalpur 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Sweet Corn
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 15

Title of on-farm trial:	Assessment of Bio-fortified variety of Pearl Millet AHB 1200.
Year/Season:	Kharif 2023
Problem diagnosis:	Low production and inadequate nutritional supply in millets growing area.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutri Sensitive Agriculture
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Growing of local variety of millet.
T2 –Recommended Practice-	AHB 1200 variety of millet.
Source of technology:	(ICAR) Indian Institute of Millet Research, Hyderabad 2014
Characteristics of technology:	
Name of Crop/Enterprises:	Pearl Millet.
Farming situation:	
Date of sowing:	
Date of harvesting:	

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 16

Title of on-farm trial:	Assessment of reduction in storage loss through pro-super bag.
Year/Season:	Rabi 2023-24
Problem diagnosis:	Heavy infestation of storage grain pest.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Reduction in storage loss.
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of Gunny bag or polyethylene bags.
T2 –Recommended Practice-	Mahua Oil @ 10ml/kg grain. Pro-super bag.
Source of technology:	IRRI, 2011
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 17

Title of on-farm trial:	Assessment of Multigrain Atta (Flour) consumption.
Year/Season:	Rabi 2023-24
Problem diagnosis:	Inadequate supply of protein & minerals.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of wheat or rice flour.
T2 –Recommended Practice-	Wheat + Green gram + Ragi (80:10:10)
Source of technology:	CFTRI, Mysuru 2012
Characteristics of technology:	
Name of Crop/Enterprises:	Multigrain Atta
Farming situation:	

Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Tomato	Integrated Crop Management	Demonstration of Nano DAP in Tomato	Nano DAP	Kharif 2023	2	10	Number of Fruit /Plant, Yield Qtl /ha
2	Brinjal	Integrated Crop Management	Demonstration of botanicals insecticides Dashparni ark & Neemastra against major pests of Brinjal	Dashparni Ark , Neemastra	Kharif 2023	2	10	Number of Fruit /Plant, Yield Qtl /ha
3	Paddy	Soil Fertility Management	Demonstration of Nano Urea in transplanted Rice	Nano Urea	Kharif 2023	4	10	Yield Qtl /ha
4	Paddy	Plant Nutrient management	Demonstration on Pseudomonas florescence in Paddy JR-81	Pseudomonas florescence	Kharif 2023	10	25	Yield
5	Cauliflower	Integrated Crop Management	Demonstration on Nano Urea in Cauliflower	Nano Urea	Rabi 2023-24	2	10	Curd Weight (gm), Yield (Qtl /ha)
6	Onion	Varietal Evaluation	Demonstration on Yield potential of onion variety Bhima Shakti	Seed of onion variety Bhima Shakti	Rabi 2023-24	2	10	Bulb Size, Bulb Weight, Yield Qtl /ha
7	Wheat	Plant Nutrient management	Demonstration on Pseudomonas in wheat	Pseudomonas	Rabi 2023-24	10	25	Yield (Qtl /ha)
8	Wheat	Integrated Nutrient Management	Demonstration of Nano urea in wheat	Nano Urea	Rabi 2023-24	4	10	Yield (Qtl /ha)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	15	January to December	375
2	Farmers Training	15	January to December	350
3	Media coverage	08	January to December	08
4	Training for extension functionaries	02	January to December	60

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Poultry	Azolla (Azolla Pinnata)	05	10	Azolla (Azolla Pinnata)	Milk yield (Lit/day/animal)	Use of Azolla (Azolla Pinnata) 30% replace by concentrate.	No use of Azolla feeding
Napier grass	Napier grass variety Yuvraj	05	10	Napier grass variety Yuvraj	Milk yield (Lit/day/animal)	Yield potential of Napier grass variety Yuvaraj	Seasonal Fodder Production
Cattle	Pregnant Does	05	10	Balance ration	Use of balance feeding	Pregnant Does -Use of balance feeding (Concentrate 2.4kg + Green fodder 3.5 Kg + Mineral mixture @ 15 gm /does)	Use of balance feeding (Concentrate .3.5 Kg + Green fodder 4.5 Kg + Mineral mixture @ 20 gm /does)

Poultry	RIR (Rhode Island Red Chicks)	05	10	RIR	Body weight gain/ egg production	Scientific rearing practice RIR rearing in scientific way	Backyard poultry farming

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmer s	No. of Units/ area	Critical inputs	Performanc e parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Nutrition Kitchen Garden for Nutritional Supplementatio n	Fruits & Vegetables	10	2000 sq mt	Seed minikits & fruits & vegetable s saplings	Availability of balanced diet through fruits & vegetables	Availabilit y of balanced diet through fruits & vegetables	Inadequat e supply of Nutrition and Additional expenditur e
Demonstration of backyard poultry for Income Generation and Nutritional Security.	Narmada Nidhi	10	-	Chicks	Body weight gain & egg laying capacity	Narmada Nidhi	Local chicks
Demonstration on Nutrition Kitchen Garden for Nutritional Supplementatio n	Fruits & Vegetables	1 0	2000 sq mt	Seed minikits & fruits & vegetable s saplings	Availability of balanced diet through fruits & vegetables	Availabilit y of balanced diet through fruits & vegetables	Inadequat e supply of Nutrition and Additional expenditur e

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeonpea	Crop Production	Newly released high yielding improved variety + Seed treatment+INM+ IPM	Seed + Biofertilizers	Kharif- 2023	30	75	Yield ,No of pod/plant
2	Chickpea	Crop Production	Newly released high yielding improved variety + Seed treatment+INM+	Seed + Biofertilizers	Rabi- 2023-24	40	100	Yield ,No of pod/plant

			IPM					
3	Lentil	Crop Production	Newly released high yielding improved variety + Seed treatment+INM+ IPM	Seed + Biofertilizers	Rabi-2023-24	20	50	Yield ,No of pod/plant
4	Blackgram	Crop Production	Newly released high yielding improved variety + Seed treatment+INM+ IPM	Seed + Biofertilizers	Summer -2023-24	20	50	Yield ,No of pod/plant
5	Greengram	Crop Production	Newly released high yielding improved variety + Seed treatment+INM+ IPM	Seed + Biofertilizers	Summer -2023-24	40	100	Yield ,No of pod/plant
6	Soybean	Crop Production	Newly released high yielding improved variety + Seed treatment+INM+ IPM	Seed + Biofertilizers	Kharif-2023	40	100	Yield ,No of pod/plant
7	Mustard	Crop Production	Newly released high yielding improved variety + Seed treatment+INM+ IPM	Seed + Biofertilizers	Rabi--2023-24	40	100	Yield ,No of pod/plant
8	Linseed	Crop Production	Newly released high yielding improved variety + Seed treatment +INM+IPM	Seed + Biofertilizers	Rabi--2023-24	40	100	Yield ,No of pod/plant

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	16	January to February	650
2	Farmers Training	16	January to February	740
3	Media coverage	08	January to February	Mass
4	Training for extension functionaries	02	January to February	100

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic	No. of	Duration	No. of Participants

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
f) Spices	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	01	01	-	-	-	-	-	25	
Soil fertility management	01	01	-	-	-	-	-	25	
Soil and Water Conservation	-	-	-	-	-	-	-	-	
Integrated Nutrient Management	01	01	-	-	-	-	-	25	
Integrated Nutrient Management	01	01	-	-	-	-	-	25	
Production and use of organic inputs	-	-	-	-	-	-	-	-	
Management of Problematic soils	-	-	-	-	-	-	-	-	
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	
Soil and Water Testing	-	-	-	-	-	-	-	-	
Total									
IV Livestock Production and Management									
Dairy Management	01	01	-	-	-	-	-	25	
Poultry Management	01	01	-	-	-	-	-	25	
Disease Management	01	01	-	-	-	-	-	25	

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST			Grand Total	
			Male	Female		Total	Male	Female			Total
ICT application											
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
March	-	Mulching practices in vegetable	1	-	-	-	-	-	-	25
April	-	Protective cultivation of cucumber	1	-	-	-	-	-	-	25
July	-	Growing of fruits, vegetables under shade net	1	-	-	-	-	-	-	25
September	-	Production & Management technology of Marigold	1	-	-	-	-	-	-	25
October	-	Underutilized vegetable water chestnut	1	-	-	-	-	-	-	25
November	-	Training programme on Preparation & Use of Jeevamrit in	1	-	-	-	-	-	-	25

		Vegetable Crops								
Home Science										
February	-	Nutritional value of millets crop & marketing scopes	1	-	-	-	-	-	-	25
May	-	Millets & thier Nutritional importance	1	-	-	-	-	-	-	25
July	-	Nutritional security through ITK (Sweet Rice)	1	-	-	-	-	-	-	25
August	-	Training on Mushroom Production Technology	1	-	-	-	-	-	-	25
October	-	Nutrition garden & Nutrition Month Training	1	-	-	-	-	-	-	25
November	-	Training programme on Climate Change & Environment Protection & its Awareness	1	-	-	-	-	-	-	25
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
February	-	Awareness programme on preparation of Jeevamrit, Beejamrit & Ghanjeevamrit	1	-	-	-	-	-	-	25
April	-	Training on World Soil Day	1	-	-	-	-	-	-	25
August	-	Vermi-	1	-	-	-	-	-	-	25

		compost Production Techniques								
September	-	Training on Organic & Natural Farming	1	-	-	-	-	-	-	25
October	-	Soil Health Management.	1	-	-	-	-	-	-	25
November	-	Training on Natural Farming	1	-	-	-	-	-	-	25
Livestock Production Management										
February	-	Prevention and control of diseases in goats	1	-	-	-	-	-	-	25
May	-	Importance of balanced diet in animals	1	-	-	-	-	-	-	25
June	-	Awareness camp for prevention and treatment of lumpy skin disease	1	-	-	-	-	-	-	25
August	-	One Day Training on Dairy Management	1	-	-	-	-	-	-	25
September	-	One Day Training on Goat Farming	1	-	-	-	-	-	-	25
October	-	Training on Backyard poultry farming with improved Breed	1	-	-	-	-	-	-	25
November	-	Major diseases in goats in autumn and their prevention	1	-	-	-	-	-	-	25
Agri Engg										
October	-	Installation and maintenance of micro irrigation systems	1	-	-	-	-	-	-	25
November	-	Repair and maintenance of farm machinery and implements	1	-	-	-	-	-	-	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Horticulture										
January	-	Nursery raising of Kharif vegetable	1	-	-	-	-	-	-	25
February	-	Organic Production & management technology of chilli	1	-	-	-	-	-	-	25
May	-	Integrated disease management in vegetable	1	-	-	-	-	-	-	25
June	-	Cultivation of Papaya	1	-	-	-	-	-	-	25
August	-	Rejuvenation of old orchard of mango, guava	1	-	-	-	-	-	-	25
October	-	Training on production of marigold	1	-	-	-	-	-	-	25
November	-	Training Programme on Pulse Demonstration Technology	1	-	-	-	-	-	-	25
December	-	Employment Opportunities and Entrepreneurship Development in Agriculture	1	-	-	-	-	-	-	25
Home Science										
January	-	Income generation through backyard poultry	1	-	-	-	-	-	-	25
March	-	Agripreneurship and importance of millet crop	1	-	-	-	-	-	-	25
April	-	Importance of millet crops & their processing	1	-	-	-	-	-	-	25
June	-	Post Harvest	1	-	-	-	-	-	-	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		techniques of millets and their processing & nutritional importance								
September	-	Training on Nutrition Month	1	-	-	-	-	-	-	25
October	-	Training Programme on Nutritional Importance of Vegetables and Layout for Nutrition Garden under Poshan Mah	1	-	-	-	-	-	-	25
November	-	Button Mushroom production & Marketing strategy	1	-	-	-	-	-	-	25
December	-	Training on Nutrition garden & Sickle cell anemia	1	-	-	-	-	-	-	25
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
January	-	Awareness programme on Natural Farming	1	-	-	-	-	-	-	25
March	-	2 Days training on Natural farming	1	-	-	-	-	-	-	25
May	-	Training on Natural Farming	1	-	-	-	-	-	-	25
June	-	Training on Natural Farming	1	-	-	-	-	-	-	25
July	-	Training on Vermi-compost production techniques	1	-	-	-	-	-	-	25
October	-	Training on Natural Farming cum Farmers-Scientist	1	-	-	-	-	-	-	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Interaction with KVK and NRRI scientists.								
November	-	Training on Natural Farming	1	-	-	-	-	-	-	25
December	-	Training on Natural Farming	1	-	-	-	-	-	-	25
Livestock Production Management										
January	-	Major diseases in goats in autumn and their prevention	1	-	-	-	-	-	-	25
March	-	Importance of balanced diet in animals	1	-	-	-	-	-	-	25
April	-	Organization of one day technical training on goat rearing to make women self-reliant	1	-	-	-	-	-	-	25
July	-	One day Animal Husbandry Seminar organized by Krishi Vigyan Kendra Seoni	1	-	-	-	-	-	-	25
October	-	Training on round the year "Fodder Production for animals"& distribution of "Hybrid Napier Grass" to the farmers	1	-	-	-	-	-	-	25
November	-	Prevention and control of diseases in goats	1	-	-	-	-	-	-	25
December	-	Importance of balanced diet in animals	1	-	-	-	-	-	-	25
Agri Engg										
October	-	Farm machinery & its maintenance	1	-	-	-	-	-	-	25
November	-	Production of small tools and implements	1	-	-	-	-	-	-	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
December	-	Water harvesting technology	1	-	-	-	-	-	-	25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Horticulture										
January 2023 to December 2023	-	Training programme on Nursery Management of Horticulture crops	3	-	-	-	-	-	-	25
Livestock production										
January 2023 to December 2023	-	Training on milk production and processing	3	-	-	-	-	-	-	35
	-	Training on goat farming	3	-	-	-	-	-	-	25
Home Science										
January 2023 to December 2023	-	Training on Mushroom Production	3	-	-	-	-	-	-	25
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
January 2023 to December 2023	-	Training on Vermicompost production technology	3	-	-	-	-	-	-	25

Training Programme for Extension Functionaries:

[illegible]

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Extension Literature	15	-	-	-	-	-	-	-	-	
Advisory Services	20	-	-	30357	-	-	-	-	-	30357
Scientific visit to farmers field	55	-	-		-	-	-	-	-	
Farmers visit to KVK	1200	-	-	100	-	-	25	-	-	125
Diagnostic visits	25	-	-	20	-	-	5	-	-	25
Exposure visits	02	-	-	80	-	-	00	-	-	80
Ex-trainees Sammelan	02	-	-	60	-	-	10	-	-	70
Soil health Camp	02	-	-	60	-	-	10	-	-	70
Animal Health Camp	02	-	-	60	-	-	10	-	-	70
Agri mobile clinic	02	-	-	60	-	-	10	-	-	70
Soil test campaigns	02	-	-	80	-	-	10	-	-	90
Farm Science Club Conveners meet	04	-	-	100	-	-	25	-	-	125
Self Help Group Conveners meetings	25	-	-		-	-		-	-	
Mahila Mandals Conveners meetings		-	-		-	-		-	-	
Celebration of important days (specify)	8	-	-	300	-	-	25	-	-	325
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	1495	-	-	3470	-	-	370	-	-	3840

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	JR 206	150
	Wheat	JW 3465	150
	-	-	-
OILSEEDS	Mustard	RH 0749	64
	Soybean	JS 20-116	100
PULSES	-	-	-
	-	-	-
VEGETABLES	-	-	-
	-	-	-
	-	-	-
	-	-	-
FLOWER CROPS	-	-	-

	-	-	-
OTHERS (Specify)	-	-	-
	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady	2000
	Drumstick	PKM-2	10000
SPICES	-	-	-
	-	-	-
	-	-	-
VEGETABLES	Tomato	Arka Rakshak, Arka Samrat	10000
	Brinjal	Harihar, Kanhaiya, Utkal	5000
	Chilli	Disha,4884	10000
	-	-	-
	-	-	-
FOREST SPECIES	-	-	-
	-	-	-
	-	-	-
ORNAMENTAL CROPS	-	-	-
	-	-	-
PLANTATION CROPS	-	-	-
	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS		-	-	-
1	Trichoderma	-	-	-
2	<i>Rhizobium</i>	-	-	-
3		-	-	-
BIOFERTILIZERS		-	-	-
1	Vermicompost	-	-	6000
2	NADEP	-	-	-
3		-	-	-
BIO PESTICIDES		-	-	-
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-
3		-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milk Breed	HF	5	1600
	-	-	-	-
SHEEP AND GOAT	-	-	-	-
	-	-	-	-
POULTRY	Dual Purpose	Narmada Nidhi	100	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
-	18	1200

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2	-	-	-
3	-	-	-

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA
3	In-service personnel	Verbal Conversation
4	methodology for identifying OFTs/FLDs	Need Assessment

5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Simariya	Seoni	12
2	Kachana	Barghat	22
3	Takhalakala	Barghat	20
4	Khathi	Barghat	18
5	Manegoan	Barghat	48
6	Dondiwada	Barghat	33
7	Mundapar	Barghat	22
8	Bhoma	Seoni	15
9	Katalbodi	Seoni	12
10	Harai	Lakhnadon	75
11	Putlai	Kurai	28
12	Khinagi	Kurai	27
13	Gunguj	Dhanora	158
14	Khapa	Seoni	14
15	Nandora	Seoni	10
16	Jhriyatola	Seoni	22
17	Khairtola	Seoni	16
18	Sukwaha	Seoni	18
19	Jhilpiperiya	Seoni	21
20	Mandi	Barghat	25
21	Jorawari	Barghat	26
22	Tikari	Barghat	28
23	Bamhni	Barghat	30
24	Dondiwada	Barghat	33
25	Khapa	Seoni	14
26	Kanchna	Barghat	22
27	Sarasdol	Lakhnadon	68
28	Sukwaha	Seoni	18
29	Badkumari	Kurai	15
30	Panvaas	Barghat	32
31	Takhla	Barghat	38
32	Potlai	Kurai	42
33	Aalesur	Kurai	43
34	Datni	Seoni	15
35	Gopalganj	Seoni	15
36	Yerma	Kurai	22
37	Banghori	Seoni	16
38	Kalarbanki	Seoni	29

39	Jamuniya	Seoni	24
40	Dheka	Seoni	37
41	Rampuri	Seoni	39
42	Setewani	Seoni	40
43	Pipardahi	Seoni	18

1. No. of farm families selected per village : 25
2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2006-07

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Electronic top pan Balance	01	Serviceable
2	Deioniser	01	Serviceable
3	Flame photometer	01	Serviceable
4	Conductivity meter	01	Serviceable
5	pH meter	01	Serviceable
6	Hot plate	01	Serviceable
7	Spectrophotometer meter	01	Serviceable
8	Shaking machine	01	Serviceable
9	Analytical Balance	01	Serviceable
10	N-Distillation system	01	Serviceable
11	Sieve	01	Serviceable
12	Agritrovel Set	04	Serviceable
13	Wooden pestle	01	Serviceable
14	Mridaparikshak	01	Serviceable
15	Soil infiltrometer	01	Serviceable
16	Mridaparikshak	01	Serviceable

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	11855	6478	438	-
Water Samples	-	-	-	-
Total	11855	6478	438	-

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
ATMA	Training, Demonstration, Capacity Building, Manual & Literature
Agriculture Department	Training, Demonstration, Capacity Building, Manual & Literature
Agriculture Engineering	Training, Demonstration, Capacity Building, Manual & Literature
Water Conservation Department	Training, Demonstration, Capacity Building, Manual & Literature
Veterinary Department	Training, Demonstration, Capacity Building, Manual & Literature
Horticulture Department	Training, Demonstration, Capacity Building, Manual & Literature
Government PG college	Training, Demonstration, Capacity Building, Manual & Literature
Excellence school	Training, Demonstration, Capacity Building, Manual & Literature
Reliance foundation	Training, Demonstration, Capacity Building, Manual & Literature
FPO	Training, Demonstration, Capacity Building, Manual & Literature

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
ATMA	Participation in Capacity Building Training, Farmer Scientist Interaction ,Krishak Sangosthi & Farm School

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
NIL	NIL

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes: Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Awareness Programmes	2000
February	Training Programmes / Awareness Programmes	2000
March	Kisan Goshthi /Awareness Programmes	1500
April	Training Programmes / Awareness Programmes	500
May	Awareness Programmes/Awareness Programmes	1000
June	Awareness Programs with short film	100
July	Exhibition	200
August	Group meetings /Awareness Programmes	400
September	Awareness Programmes	1000
October	Training Programmes/Awareness Programmes	2000
November	Kisan Goshthi /Awareness Programmes	2000
December	Awareness Programmes	2000

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 3000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif - 2023	JR-81,JRH-105,JRH-120,JR-201,JR-206,JR-303,JRH-106,JRH-19,JR-56	Transplanting	2000
Soybean	Kharif-23	JS 2069, JS 2098, JS 2034, JS 2029, JS 2094, RVS-2001-4,JS 20116, JS 2096,JS 2071	Sowing in Ridge Furrow System	500
Greengram	Summer	PDM-139, Virat, Sikha, TM-37	Sowing in Raised Bed System	500
Tomato		Arka Raksak, Arka Samrat, Kashi Abhiman, Abhishek, Abhilash,	Transplanting	200

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Natural Farming Unit	Demonstration unit preparation of Jeevamrit, Ghanjeevamrit, Beejjamarit, Jabrailic tonik, Dasparni Ark, Neemastra, Bramhastra, Agneyastra & application in Wheat, Gram, Mustard.	2 hectare	Awaited
Dairy Unit	Cattle (HF)	0.2 Decimal	1850 kg (milk)
Azolla Unit	Azolla Pinnata	30square meter	Rs. 4000
Vermicompost Unit	Vermicompost production through 4 portable Vermicompost bed.	200 square feet	60 quintals
Poultry Unit	Dual purpose Narmada Nidhi birds for meat & Egg laying	15 square meter	50000/annum

ANNUAL ACTION PLAN 2023

KVK Shahdol

Year of sanction:1994-95

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Mrigendra Singh	07652-241790	9425183232	kvkshahdol@rediffmail.com, mrigendra1968@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. N o.	Sanction ed post	Name of the incumb ent	Designat ion	Discipline	Pay Scale with prese nt basic (Rs.)	Date of Joini ng	Date of joini ng this KVK (Year)	Contact No.	Email ID	Pho to
1	Programm e Coordinat or	Dr. Mrigend ra Singh	Senior Scientist & Head	Multidiscipli nary	37400 - 69000 Level 14 (17740 0)	01-02-2007	01-02-2007	9425183 232	mrigendra1968@gmail.c om	
2	Subject Matter Specialist	Smt. Alpana Sharma	Scientist	Home Science	15600 - 39100 Level1 2 (1072 00)	13-07-2007	19-07-2010	9301111 646	alpanasanu@rediffmail.c om	
3	Subject Matter Specialist	Dr. Braj kishor Prajapat i	Scientist	Agronomy	15600 - 39100 Level1 0 (6680 0)	12-09-2017	20-09-2021	9012012 068	Brajkishorprajapati1@g mail.com	
4	Subject Matter Specialist	Sh. Deepak Chouha n	Scientist	Agricultural Engineering	15600 - 39100 Level1 0 (6680 0)	10-10-2017	10-10-2017	9424023 760	deepakchouhan22@gm ail.com	
5	Subject Matter Specialist	Vacant								
6	Subject Matter Specialist	Vacant								
7	Subject Matter Specialist	Vacant								
8	Programm e Assistant	Shri Bhagwat Prasad Pandre	P A Agrofores try	Agro forestry	9300-34800 Level 10 (4670 0)	28-01-2019	28-01-2019	7697024 787	29bhagwatpandre@gma il.com	
9	Computer Programm	Shri Rishiraj	Tech Officer	Computer	9300-34800	04-04-	04-04-	9424335 040	rishirajnegi@gmail.com	

	er/ Programme Assistant	Negi	Computer		Level 10 (6800 0)	2008	2008			
10	Farm Manager									
11	Assistant	Smt. Asha Shrivata va	Asstt. Grade II	Asstt. Grade II	9300- 34800 Level 8 (5250 0)	12- 08- 1996	12- 08- 1996	9977170 453	kvkshahdol@rediffmail.c om	
12	Jr. Stenograp her / Comp. Operator	Smt. Abha Shyam	Lab Technicia n	Lab Technician	9300 - 34800 Level 8 (3410 0)	31- 07- 2003	26- 08- 2021	9981694 669	kvkshahdol@rediffmail.c om	
13	Driver	Shri Badri Prasad Yadav	Driver cum Mechanic	Driver	5200- 20200 Level 6 (3120 0)	02- 02- 1999	07- 07- 2008	9424931 288	kvkshahdol@rediffmail.c om	
14	Driver	Shri Biran Prasad Pradhan	Driver cum Mechanic	Driver	5200- 20200 Level 4 (2190 0)	12- 07- 2018	12- 07- 2018	9981070 716	kvkshahdol@rediffmail.c om	
15	Supportin g staff	Shri Kamlesh Kol	Peon	Peon	4440- 7440 Level 1 (2150 0)	26- 11- 2012	06- 11- 2019	6266836 323	kvkshahdol@rediffmail.c om	
16	Supportin g staff	Vacant								

1.3 Total land with KVK (in ha): 13.28

S. No.	Item	Area (ha)
1	Under Buildings	0.3
2	Under Demonstration Units	0.7
3	Under Crops	0.005
4	Orchard/Agro-forestry	28
5	Others (specify)	-
Total		13.28

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2008	497.17		2006	497.17	Complete & Working but require maintenance
2	Farmers Hostel	ICAR	Not Handed over	305		2006	305	Not handed over
3	Staff Quarters (6)	ICAR	2013 Completed but boundary wall and filling requirement	400		2007	400	Complete & Working but require maintenance and filling and fencing
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system	ICAR	Dec-07	0.3		June 2007	0.3	Severely damaged and require maintenance
7	Threshing floor							
8	Farm godown							
9	Poly House	RKVY	2018	300	594720			
10	Net House	RKVY	2018	300	364500			
11	Mist Chamber	RKVY	2018	100	339000			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2004	450000	-	Under use but needs major repair
Motor Cycle 2	2005	50000	88192	Working but require frequent repair
Bolero(Jeep)	2012	501521	246037	Working but require frequent repair
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2007	58488	Working but require replacement
Xerox Machine	2016	177450	Working
Generator	2011	48473	Working
Video Camera	2012	20000	Working
Computer, Laser Printer	2007, 2013	40500, 28499	Working but require frequent repair
UPS 600 VA	2006	6300	Not working
Stabilizer 2 KVA	2016	8175	Working
Stabilizer	2017	3650	Working
Inverter 600 VA (2)	2006	23100	Working
Inverter Battery (2)	2020	28780	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15 June 2023
2	15 November 2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1 Agriculture	Paddy-wheat in cereal, Pigeonpea and Chickpea in pulses and sesame – mustard in oilseed are major crops of Kharif and Rabi
2	AES – 2Ag. +Dairy	Indigenous breeds of dairy animals are rearing with agriculture
3	AES – 3 NTFS (Collection of forest produce)	Mahua, jamun and Aonla are the major NTFS collected.
4	AES – 4 Vegetable	Growing vegetables mostly in backyard
5	AES – 5 Backyard Poultry	Indigenous breeds
6	AES – 6 Livestock	Indigenous breeds

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Zone – XI (Northern hilly zones of Chhattisgarh Region)	District is characterized by red and yellow, medium, black and skeletal soil and undulating topography. It is a rainfed area, the average precipitation vary from 1000 to 1200 mm.

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (name)

Strength	Weakness	Opportunities	Threats
- Use of natural / organic inputs with low inorganic inputs - Ample amount of forest and NTFS - Bio diversity present in the district - Most of the crops are organically produced	- Low organic content in soil resulting in poor soil fertility - Low irrigation facility - Poor water holding capacity of soil with severe to moderate soil erosio - Most of the cattle breed is indigenous	- Suitable for natural farming/ organic farming - Suitable for forest products - Suitable for medicinal and aromatic crops - Production of diversified crops may be taken including tuber crops	- Open grazing - Severe problem of wild animals

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	561.006
Forest	227.698
Waste Land	60.358
Other than cultivated area	
Cultivable waste and alkaline land	25.863
Pastures	
Bushes	
Current Fallow	25.863
Other Fallow	
Agricultural Land	
Area Sown	211.419
Kharif	187.268
Rabi	84.000
Zaid	
Cropping Intensity	145 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	10195
2	Well	4545
3	Tube well	6030

4	Ponds	14273
5	Others	2712

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light Soils	✓ Soils are sandy loam to silty clay loam in texture. ✓ Soils are poor in AWC which does not permit post rainy season cropping under rainy season ✓ PH ranges 6-7.4, ✓ CEC – low Soils are low to medium in Nitrogen and Phosphorus and medium to high in Potassium	125.960 (75%)
2	Medium Soils/Heavy Soils	✓ Soils are sandy loam to silty clay loam in texture. ✓ Soils are poor in AWC which does not permit post rainy season cropping under rainy season ✓ PH ranges 6-7.4, ✓ CEC – low Soils are low to medium in Nitrogen and Phosphorus and medium to high in Potassium	41.98675 (25%)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	149900	6325.8	42.2
2	Kodo- Kutki	7900	67.2	8.5
3	Pigeonpea	10800	139.3	12.90
4	Wheat	68000	2468.4	36.3
5	Gram	9000	126.9	14.1
6	Fruits	4410	797	191.19
7	Vegetables	10820	2293.1	220.1
8	Spices	2481	198.71	81.21

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	21.3	28	11
Feb, 22	7.5	30	8
Mar, 22	0	33	13
Apr, 22	0	43	20
May, 22	6	44	23
Jun, 22	95.7	45	23
July, 2022	160.3	36	24
Aug., 2022	156.8	36	25
Sept., 2022	117	35	23
Oct. 2022	42.6	31	21
Nov. 2022	0	32	13
Dec. 2022	0	28	7

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	334618	122.49. MT.	0.987 kg
Buffalo	82654		Kg
Sheep			
Crossbred/ Indigenous		MT wool	Kg

Goats	991618	0.71 MT	Kg
Pigs Crossbred/ Indigenous	3948		
Rabbits	-		
Poultry			
Hens	48679	49.50 Lakh eggs	35eggs/ bird/yr
Turkey and others	-	-	-
Category	Area	Production	Productivity
Fish		Q/ year	Q/ year
		Q/ year	Q/ year

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Shahdol	Sohagpur	Rohaniya	Paddy, Kodo-kutki, Pigeon pea, Wheat, Chick pea, Livestock Poultry Goatry Vegetables	Low yield due to old variety seed, improper pest and disease management, Inadequate use of fertilizers, high seed rate, untimely use of weed control measures etc. Low milk yield due to Rearing of indigenous cattle breed	•Crop diversification, •Varietal Diversification- •Integrated farming system •INM •IPM •Promotion of Natural farming •Strengthen of linkage between farmer's and extension system •Farm mechanization and drudgery reduction •Integrated livestock management, •Promotion of agriculture based enterprises for farm women •Development of rural entrepreneurship for income and employment generation
2	Shahdol	Burhar	Marjat			
3	Shahdol	Jaisinghnagar	Meethi			
4	Shahdol	Burhar	Bahgarh			
5	Shahdol	Sohagpur	Sinduri Bharri			

Priority / Thrust areas

S. No.	Particulars
1.	Crop improvement and diversification
2.	Seed replacement
3	Pest management through
4	Integrated plant nutrient management
5	Water and soil conservation
6	Promotion of rural entrepreneurship for additional income generation and employment generation
7	Livestock Production & Management
8	Annual house hold nutritional security
9	Agro forestry

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
17	100	10+12	85+525

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
92	3155	520	54456+ Mass

Seed Production (Qtl.)	Planting material (Nos.)
Sunhemp 5 Q	Fruit sapling – 10,000, Vegetable seedling – 1,00,000

B. Abstract of interventions to be undertaken

S . N o .	Thru st area	Crop/ Enterpr ise	Identif ied Proble m	Interventions					
				Title of OFT if any	Titl e of FLD if any	Title of Train ing if any	Title of train ing for exte nsio n pers onn el if any	Exte nsi on activi ties	Supply of seeds, plantin g materia ls etc.
1	Cro p Prod uctio n	Kutki	Low yield of Kutki due to less seed replac ement and use of old variety like JK 36	Assessment of HYV of Kutki JK4 and CG-1 under Kutki-Mustard/ Chickpea cropping sequence					Seed
		Kodo	Low yield of Kodo due to less seed replac ement and use of old variety		Demo nstrati on of HYV variet y JK 137 of kodo under Kodo - musta rd croppi ng seque nce				Seed
		Paddy	Low yield of paddy due to less seed replac ement and use of old variety		Demo nstrati on of HYV variet y (JR 81/JR 206) under Rice- Chick pea croppi ng seque nce				Seed

Chickpea	Low Yield		Demonstration of Seed treatment (Biofertilizers) and line sowing of HYV of chickpea (JG 36) through seed cum fertilizers drill under Paddy - chickpea cropping system				Seed & Biofertilizers
Linseed	Low yield		Demonstration of Seed treatment (Biofertilizers) and line sowing of HYV of linseed (JLS 73/79) through seed cum fertilizer drill under paddy - linseed				Seed & Biofertilizers

					croppi ng syste m				
		Mustar d	Low yield of Mustar d due to less seed replac ement, use of old variety JMM 99 and broadc asting of seed without seed treatm ent with bioferti lizers	Assessment of use of biofertilizers with HYV of Mustard (NRCHB 101 and Pusa Mustard 30 under Kutki-Mustard cropping sequence					Seed & Biofertili zers
2	ITK	Paddy	Low yield of old Paddy varieti es like kansar i, barhai, surmat iya due to BLB infesta tion	Assessment of cow dung spray to control BLB in paddy crop					
		Brinjal	Yield and econo mic loss due to shoot and fruit borer	Assessment of tobacco (Nicotiana tobaccum) soaked water to control shoot and fruit borer in brinjal (<i>Solanum melongena</i>)					Tobacc o
		Resour ce conserv ation (ITK)	Lower surviva l of plantat ion crop in rainfed area due to	Assessment of Rain water management for teak, mango and neem plantation in rainfed area					

			erratic rainfall						
		Tomato	Low income of tomato farmers due to insect pest attack	Assessment of Pest management in tomato by using leaf extract of <i>Cynodon dactylon</i>					
3	IFS	Crops+ Poultry birds (Narmada nidhi)+vegetables+compost	Low income of farm family due to less diversification of farm	Assessment on diversification of farm through poultry based integrated farming system for small and marginal farmers					Poultry chicks
		Paddy, wheat, duck, fish	Low income of farm family due to less diversification of farm	Assessment on diversification of farm through Duck-fish based integrated farming system for small and marginal farmers					Duck chicks & Fingerlings
4	Natural Farming	Kodo Variety JK 137	Higher cost of production		Demonstration of natural farming in Kodo – Pigeon pea cropping sequence				Seed
5	Organic Farming	Onion	Yield and economic loss due to thrips	Assessment of neem oil for effective management of thrips in organically cultivated onion					Neem Oil
6	Agroforestry.	Paddy	Low yield due to old variety MTU 1010 under agro	Assessment of HYV of Paddy (JR 81) under <i>Acacia nilotica</i> traditional tree based Agri-silviculture system.					Seed

			forestr y system						
		Brinjal	No crop grow n betw een spaci ng of mang o tree	Assessment of Brinjal under two year old mango tree based Agri-Olericulture system.					Seed
		Mustard	No crop grown betwe en spacin g of Munga tree.	Evaluation of Mustard variety (PM 30/NRC HB-101) under Drumstick based Agri-horticulture system.					Seed
		Wheat	No crop grown betwe en spacin g of aonla/ eucaly ptus tree	Assessment of wheat variety JW 3382 under Aonla/Eucalyptus tree based Agri-silviculture system.					Seed
7	Nutrit ional Secu rity	Paddy – CR Dhan 310	High magnit ude of malnut rition and low immun ity among farm familie s	Assessment of bio-fortified variety of Paddy – CR Dhan 310	Demo nstrati on on kitche n garde ning	Estab lishm ent of kitche n garde ning	Kitc hen gard enin g		Seed, Planting material
		Drumsti ck (Moring a oleifera) dry leaf powder	Malnut rition due to high anemi a in rural adoles cent girls	Assessment of drumstick (Moringa oleifera) dry leaf powder as daily dietary supplement for anemic adolescent girls	Demo nstrati on on nutriti onal enhan ceme nt of presc hool childr en throug h incorp	Prep aratio n of low cost diet	Prep aratio n of low cost diet	Meth od demo nstrat ion	Drumsti ck leaf powder

					oration of paush tik chapatti (fortification of Kodo flour, drums tick leaf powder to wheat flour) in their diet				
		Value added mushroom pickle and mushroom badi	High magnitude of malnutrition among farm families	Assessment of acceptability of value added products by oyster mushroom to improve the malnutrition status of the farm family	Oyster mushroom production on wheat straw	Value addition of mushroom			Mushroom spanand other inputs
		Sprouted chickpea -15 gm,+ sprouted wheat-15 gm + Jaggery 10 gm @ 40 gm/day/child for 3 months	Prevalence of malnutrition in children of age -3-5 years	Assessment of malted sattu (Sprouted chick pea+ sprouted wheat) for Malnourished Children					
8	Integrated livestock management	Poultry	Low egg and meat production due to improper feeding		Demonstration of Azolla for poultry birds under backyard poultry system				Azolla culture

			Low egg and meat production due to rearing of indigenous breed		Demonstration on income enhancement of FW through Backyard Poultry Farming				Chicks

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal assessment	1	1								2
ITK	1				2			1		4
Organic Farming					1					1
Agroforestry	2	1			1					4
Nutritional security	1									1
Nutritional security (Other)	2									2
TOTAL	7	2			4			1		14

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
IFS		2					1	3
TOTAL		2					1	3

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Kutki	
Title of on farm trial	Assessment of HYV of Kutki JK4 and CG-1 under Kutki-Mustard/ Chickpea cropping sequence	
Problem diagnosed	Low yield of Kutki due to less seed replacement and use of old variety like JK 36	
Farmers' Practices	Growing of old variety JK 36 (2008)	
Details of technologies selected for assessment	T1	Growing of old variety JK 36 (2008)
	T2	Growing of old variety JK 36 (2008)
	T3	Growing of old variety JK 36 (2008)
Source of technology	JNKVV (2016)	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs150 /kg	
Critical input	Rs 3000	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of HYV of Kutki JK4 and CG-1 under Kutki-Mustard/ Chickpea cropping sequence
Year/Season:	2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Kutki due to less seed replacement and use of old variety like JK 36
Thematic area:	Crop production
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Growing of old variety JK 36 (2008)
T2 –Recommended Practice-	HYV of Kutki JK4
T3- Recommended Practice-	HYV of Kutki CG-1
Date of sowing:	25/07/23
Date of harvesting:	20/11/23
Source of technology:	JNKVV (2016)
Characteristics of technology:	Suitable for sole as well as inter/mixed cropping, responsive to NPK, resistant to

	drought, lodging, and key pest Shoot fly and moderately resistant to head smut
Name of Crop/Enterprises:	Kutki (Little millet)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of cow dung spray to control BLB in paddy crop	
Problem diagnosed	Low yield of old Paddy varieties like kansari, barhai, surmatiya due to BLB infestation	
Farmers' Practices	Chemical application (plantomycine or streptomycin 25-30gml/acre)	
Details of technologies selectedfor assessment	T1	Improper management
	T2	Chemical application (plantomycine or streptomycin 25-30gml/acre)
	T3	Spray of Cow dung (Spray at 7-10 days interval) 2kg/10 litre water
Source of technology	TNAU, Coimbatore (2014)	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs 180	
Critical input	Rs 900	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation		

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of cow dung spray to control BLB in paddy crop
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of old Paddy varieties like kansari, barhai, surmatiya due to BLB infestation
Thematic area:	ITK(Crop production)
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper management
T2 –Recommended Practice-	Chemical application (plantomycine or streptomycin 25-30gml/acre)
T3- Recommended Practice-	Spray of Cow dung (Spray at 7-10 days interval) 2kg/10 litre water
Date of sowing:	22/07/23
Date of harvesting:	20/11/23
Source of technology:	TNAU, Coimbatore (2014)
Characteristics of technology:	Low cost involve and ITK
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Crop / Enterprise	Crops+ Poultry birds (Narmada nidhi)+vegetables+ compost
Title of on farm trial	Assessment on diversification of farm through poultry based integrated farming system for small and marginal farmers
Problem diagnosed	Low income of farm family due to less diversification of farm
Farmers' Practices	Cultivation of crop (Rice-wheat system)
Details of technologies selectedfor assessment	T1Cultivation of crop (Rice-wheat system)
	T2Rice-wheat/chickpea +Poultry birds (Narmada nidhi)
	T3T2 + compost
Source of technology	ICAR-IIFSR, Modipuram (2016)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs 40/Bird
Critical input	Rs 9000
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment on diversification of farm through poultry based integrated farming system for small and marginal farmers
Year/Season:	2023
Farming situation:	Irrigated/Rainfed
Problem diagnosis:	Low income of farm family due to less diversification of farm
Thematic area:	IFS
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of crop (Rice-wheat system)
T2 –Recommended Practice-	Rice-wheat/chickpea +Poultry birds (Narmada nidhi)
T3- Recommended Practice-	T2 + compost
Date of sowing:	22/07/23
Date of harvesting:	20/11/23
Source of technology:	ICAR-IIFSR, Modipuram (2016)
Characteristics of technology:	Faster growth rate male attained 1 kg body weight in 9-10 weeks of age. The female matured on an average 161 days of age (intensive) and produces 181 eggs in backyard 4 times higher than the local native (45 eggs) and 195 under semi intensive system of management.
Name of Crop/Enterprises:	Crops+ Poultry birds (Narmada nidhi)+ compost
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Crop / Enterprise	Paddy , wheat, duck, fish
Title of on farm trial	Assessment on diversification of farm through Duck-fish based integrated farming system for small and marginal farmers
Problem diagnosed	Low income of farm family due to less diversification of farm
Farmers' Practices	Cultivation of crop (Paddy-wheat system)+Pond
Details of technologies selectedfor	T1Cultivation of crop (Paddy-wheat system)+Pond

assessment	T2	Paddy variety Bisni-wheat system+Pond+Duck (White Pekin/Khaki campell)
	T3	Paddy variety improve Jeerashankar/Kalikamod wheat system+Pond+Duck (White Pekin/Khaki campell)
Source of technology	ICAR-IIFSR, Modipuram (2016)	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs 55/Bird	
Critical input	Rs 8500	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation		

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment on diversification of farm through Duck-fish based integrated farming system for small and marginal farmers
Year/Season:	2023
Farming situation:	Irrigated/Low land
Problem diagnosis:	Low income of farm family due to less diversification of farm
Thematic area:	Crop production
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of crop (Paddy-wheat system)+Pond
T2 –Recommended Practice-	Paddy variety Bisni-wheat system+Pond+Duck (White Pekin/Khaki campell)
T3- Recommended Practice-	Paddy variety improve Jeerashankar/Kalikamod+wheat system+Pond+Duck (White Pekin/Khaki campell)
Date of sowing:	22/07/23
Date of harvesting:	25/11/23
Source of technology:	ICAR-IIFSR, Modipuram (2016)
Characteristics of technology:	Khaki Campbell ducks are an excellent pick as an egg producer. A healthy Khaki Campbell hen should lay between 300 and 320 large, white duck eggs in a single year
Name of Crop/Enterprises:	Paddy , wheat, duck, fish
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

Crop / Enterprise	Mustard
Title of on farm trial	Assessment of use of biofertilizers with HYV of Mustard (NRCHB 101 and Pusa Mustard 30 under Kutki-Mustard cropping sequence
Problem diagnosed	Low yield of Mustard due to less seed replacement, use of old variety JMM 99 and broadcasting of seed without seed treatment with biofertilizers
Farmers' Practices	old variety JMM 99 and broadcasting of seed without seed treatment with biofertilizers
Details of technologies selectedfor assessment	T1Old variety JMM 99 (2008) without use of biofertilizers
	T2 HYV of Mustard NRCHB 101 with biofertilizers
	T3HYV of Mustard Pusa Mustard 30 with biofertilizers
Source of technology	ICAR-DRMR (2019)
Plot size	0.4 ha
No. of farmers	5

Total cost	Rs. 750
Critical input	Rs 3750
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of use of biofertilizers with HYV of Mustard (NRCHB 101 and Pusa Mustard 30 under Kutki-Mustard cropping sequence
Year/Season:	2023 -24
Farming situation:	Irrigated/rainfed
Problem diagnosis:	Low yield of Mustard due to less seed replacement, use of old variety JMM 99 and broadcasting of seed without seed treatment with biofertilizers
Thematic area:	Crop production
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old variety JMM 99 (2008) without use of biofertilizers
T2 –Recommended Practice-	HYV of Mustard NRCHB 101 with biofertilizers
T3- Recommended Practice-	HYV of Mustard Pusa Mustard 30 with biofertilizers
Date of sowing:	22/10/23
Date of harvesting:	25/02/24
Source of technology:	ICAR-DRMR (2019)
Characteristics of technology:	Suitable for rainfed and irrigated. Potential Yield 17-20 q/ha, Days to maturity: 105-135 day, Oil Content: 34.6- 42.1 %,Plant height: 170- 200 cm,Average seed yield: 1382-1491 kg/ha
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-6

Crop / Enterprise	Brinjal
Title of on farm trial	Assessment of tobacco (Nicotiana tobaccum) soaked water to control shoot and fruit borer in brinjal (<i>Solanum melongena</i>)
Problem diagnosed	Yield and economic loss due to shoot and fruit borer
Farmers' Practices	Improper management
Details of technologies selectedfor assessment	T1Improper management
	T2Spray of Chlorpyrifos 20 EC (1000 ml/ha) or Indoxacarb 14.5 % SC (350 ml/ha)
	T3Tobacco (Nicotiana tobaccum) soaked water (1:10)
Source of technology	Cross Sectoral Validation of Indigenous Technical Knowledge (2004) ICAR, New Delhi
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs. 980
Critical input	Rs 4900

Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	

Details of On Farm Trial (OFT)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of tobacco (<i>Nicotiana tobaccum</i>) soaked water to control shoot and fruit borer in brinjal (<i>Solanum melongena</i>)
Year/Season:	2023 -24
Farming situation:	Irrigated
Problem diagnosis:	Yield and economic loss due to shoot and fruit borer
Thematic area:	Crop production
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper management
T2 –Recommended Practice-	Spray of Chlorpyrifos 20 EC (1000 ml/ha) or Indoxacarb 14.5 % SC (350 ml/ha)
T3- Recommended Practice-	Tobacco (<i>Nicotiana tobaccum</i>) soaked water (1:10)
Date of sowing:	22/10/23
Date of harvesting:	25/02/24
Source of technology:	Cross Sectoral Validation of Indigenous Technical Knowledge (2004) ICAR, New Delhi
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7

Crop / Enterprise	Onion
Title of on farm trial	Assessment of neem oil for effective management of thrips in organically cultivated onion
Problem diagnosed	Yield and economic loss due to thrips
Farmers' Practices	Improper management
Details of technologies selected for assessment	T1 Improper management
	T2 Imidachoprid 17.8 % SL (125 ml/ha) or Propenophos 800 ml/ha
	T3 Cow urine (30 %)+Neem oil (4%)
Source of technology	ICAR-DOGR, Pune or Das et. al. (2017)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs 600
Critical input	Rs 3000
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	

Details of On Farm Trial (OFT)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of neem oil for effective management of thrips in organically cultivated onion

Year/Season:	2023 -24
Farming situation:	Irrigated
Problem diagnosis:	Yield and economic loss due to thrips
Thematic area:	Crop production
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper management
T2 –Recommended Practice-	Imidachoprid 17.8 % SL (125 ml/ha) or Propenophos 800 ml/ha
T3- Recommended Practice-	Cow urine (30 %)+Neem oil (4%)
Date of sowing:	22/10/23
Date of harvesting:	25/02/24
Source of technology:	ICAR-DOGR, Pune or Das et. al. (2017)
Characteristics of technology:	Low cost involve
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-8

Crop / Enterprise	Paddy
Title of on farm trial	Assessment of HYV of Paddy JR 81 under <i>Acacia nilotica</i> traditional tree based Agri-silviculture system.
Problem diagnosed	Low yield due to old variety MTU 1010 under agro forestry system.
Farmers' Practices	Old variety MTU 1010
Details of technologies selected for assessment	T ₁ Old variety MTU 1010
	T ₂ HYV of paddy (JR 81) under <i>Acacia nilotica</i>
Source of technology	Annual report of CAFRI, Jhansi (2019) JNKVV 2018
Plot size	1 hac.
No. of farmers	05
Total cost	Rs 28000
Critical input	Paddy seed.
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	- - - -

Detailed Information about OFT:

Name of Discipline	Agro forestry
Title of on-farm trial:	Assessment of HYV of Paddy (JR 81) under <i>Acacia nilotica</i> traditional tree based Agri-silviculture system.
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety MTU 1010 under agro forestry system
Thematic area:	AGF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old variety MTU 1010
T2 –Recommended Practice-	HYV of paddy (JR 81) under <i>Acacia nilotica</i>

T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Annual report of CAFRI, Jhansi, 2019
Characteristics of technology:	Short structure of plant, 120 day duration, biotic stress tolerant
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of Brinjal under two year old mango tree based Agri-Olericulture system.	
Problem diagnosed	No crop grown between spacing of mango tree	
Farmers' Practices	No crop	
Details of technologies selected for assessment	T ₁	No crop
	T ₂	Mango+Brinjal
Source of technology	Annual report of CAFRI, Jhansi, 2020	
Plot size	1 hac	
No. of farmers	05	
Total cost	3300 Rs	
Critical input	220 gm	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	- - - -	

Detailed Information about OFT:

Name of Discipline	Agro forestry
Title of on-farm trial:	Assessment of Brinjal/Tomato under two year old mango tree based agri-olericulture system.
Year/Season:	2023/Kharif.
Farming situation:	Irrigated.
Problem diagnosis:	No crop grown between spacing of mango tree.
Thematic area:	AGF
No of trials:	1
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No crop.
T2 –Recommended Practice-	Mango+brinjal/tomato.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Annual report of CAFRI, Jhansi, 2020.
Characteristics of technology:	Higher monetary return, Nutritional security.

Name of Crop/Enterprises:	Brinjal/Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Crop / Enterprise	Mustard
Title of on farm trial	Evaluation of Mustard variety (PM 30/NRC HB-101) under Drumstick based Agri-horticulture system.
Problem diagnosed	No crop grown between spacing of Munga tree.
Farmers' Practices	No crop
Details of technologies selected for assessment	T ₁ No crop
	T ₂ Munga+Mustard
Source of technology	Annual report of CAFRI, Jhansi, 2019
Plot size	1 hac
No. of farmers	05
Total cost	4000 Rs.
Critical input	Seed
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	- - - -

Detailed Information about OFT:

Name of Discipline	Agro forestry
Title of on-farm trial:	Evaluation of Mustard variety (PUSA Bold/Varuna) under Drumstick based Agri-horticulture system.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	No crop grown between spacing of Munga tree.
Thematic area:	AGF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No crop
T2 –Recommended Practice-	Munga+Mustard
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	Annual report of CAFRI, Jhansi, 2019
Characteristics of technology:	Higher monetary return, Nutritional security
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of wheat variety JW 3382 under Aonla/Eucalyptus tree based Agri-silviculture system.
Problem diagnosed	No crop grown between spacing of aonla/eucalyptus tree
Farmers' Practices	No crop grown between the Plants
Details of technologies selected for assessment	T ₁ No crop grown between the Plants
	T ₂ Aonla/Eucalyptus+wheat
Source of technology	Annual report of CAFRI, Jhansi, 2019
Plot size	01 hac
No. of farmers	05
Total cost	28500
Critical input	Seed
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	- - - -

Detailed Information about OFT:

Name of Discipline	Agro forestry
Title of on-farm trial:	Assessment of wheat variety JW 3382 under Aonla/Eucalyptus tree based Agri-silviculture system.
Year/Season:	2022/Rabi
Farming situation:	Irrigated
Problem diagnosis:	No crop grown between spacing of aonla/eucalyptus tree
Thematic area:	AGF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No crop
T2 –Recommended Practice-	Aonla/Eucalyptus+wheat
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	Annual report of CAFRI, Jhansi, 2019
Characteristics of technology:	Higher monetary return, higher yield, tolerant to diseases
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12

Crop / Enterprise	Making of micro-depressions around the basin of the plant
Title of on farm trial	Assessment of Rain water management for teak, mango and neem plantation in rainfed area
Problem diagnosed	Lower survival of plantation crop in rainfed area due to erratic rainfall
Farmers' Practices	No such water conservation measures

Details of technologies selected for assessment	T ₁	No such water conservation measures
	T ₂	: Soil moisture-conservation making micro-depressions around the basin of the plant
Source of technology	Forest Research College, Mettupalayam (Tamil Nadu), Traditional Knowledge in Agriculture (2020). Division of Agricultural Extension, ICAR, New Delhi. pp-2	
Plot size	0.4 hac.	
No. of farmers	05	
Total cost	Rs10000/-	
Critical input	Planting Material	
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	- - - -	

Detailed Information about OFT:

Name of Discipline	Agro forestry
Title of on-farm trial:	Assessment of Rain water management for teak, mango and neem in arid and semi-arid regions
Year/Season:	Kharif 2022
Farming situation:	Rainfed
Problem diagnosis:	Lower survival of plantation crop in rain feed area due to erratic rainfall
Thematic area:	Resource conservation.
No of trials:	05
No. of farmers involved	20
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No such water conservation measures
T2 –Recommended Practice-	Soil moisture-conservation making micro-depressions around the basin of the plant
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Forest Research College, Mettupalayam (Tamil Nadu), <i>Traditional Knowledge in Agriculture (2020). Division of Agricultural Extension, ICAR, New Delhi. pp-2</i>
Characteristics of technology:	Soil moisture-conservation practices by making micro-depressions around the basin of the plant
Name of Crop/Enterprises:	Plantation / Barren Land
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT- 13

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of Pest management in tomato by using leaf extract of <i>Cynodon dactylon</i>
Problem diagnosed	Yield and economic loss due to thrips
Farmers' Practices	Improper management
Details of technologies selected for assessment	T1 Improper management
	T2 Chemical application - Indoxacarb 14.5 % SC (350 ml/ha)
	T3 IPM in tomato by using leaf extract of <i>Cynodon dactylon</i>
Source of technology	TNAU, Coimbatore (Tamil Nadu), Traditional Knowledge in Agriculture (2020). Division of Agricultural Extension, ICAR, New Delhi. pp-14

Plot size	1 acre
No. of farmers	5
Total cost	Rs 1300
Critical input	Rs 6500
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	

Details of On Farm Trial (OFT)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Pest management in tomato by using leaf extract of <i>Cynodon dactylon</i>
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Low income of tomato farmers due to insect pest attack
Thematic area:	ITK
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper management
T2 –Recommended Practice-	Chemical application - Indoxacarb 14.5 % SC (350 ml/ha)
T3- Recommended Practice-	IPM in tomato by using leaf extract of <i>Cynodon dactylon</i>
Date of sowing:	22/10/23
Date of harvesting:	25/02/24
Source of technology:	TNAU, Coimbatore (Tamil Nadu), Traditional Knowledge in Agriculture (2020). Division of Agricultural Extension, ICAR, New Delhi. pp-14
Characteristics of technology:	IPM in tomato by using leaf extract of <i>Cynodon dactylon</i>
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: OFT: 1

Title of on-farm trial:	Assessment of bio-fortified variety of Paddy – CR Dhan 310
Year/Season:	Kharif , 2023
Problem diagnosis:	High magnitude of malnutrition and low immunity among farm families
Thematic area:	Nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of variety MTU1010/IR 64
T2 –Recommended Practice-	Use of variety- CR Dhan 310
Source of technology:	CRRRI, Cuttack
Characteristics of technology:	Rich in various nutrients like protein and zinc
Name of Crop/Enterprises:	Paddy
Farming situation:	Rainfed
Date of sowing:	Ist week of July 2023
Date of harvesting:	Last week of November 2023
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 2

Title of on-farm trial:	Assessment of drumstick (Moringa oleifera) dry leaf powder as daily dietary supplement for anemic adolescent girls
Year/Season:	Kharif , 2023
Problem diagnosis:	Malnutrition due to high anemia in rural adolescent girls
Thematic area:	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Imbalance diet
T2 –Recommended Practice-	Dry drumstick leaf powder @ 10g/day/head mean daily intake (MDI)
Source of technology:	PAU, Ludhiana (2012)
Characteristics of technology:	Dry drumstick leaf powder @ 10g/day/head mean daily intake (MDI)
Name of Crop/Enterprises:	Dry drumstick leaf powder
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 3

Title of on-farm trial:	Assessment of acceptability of value added products by oyster mushroom to improve the malnutrition status of the farm family
Year/Season:	Rabi , 2023
Problem diagnosis:	High magnitude of malnutrition among farm families
Thematic area:	Nutritional Security

No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of fresh mushroom seasonally
T2 –Recommended Practice-	Use of value added mushroom pickle and mushroom badi
Source of technology:	National Research Centre for Mushroom –ICAR, Solan (2008)
Characteristics of technology:	Value added mushroom pickle and mushroom badi
Name of Crop/Enterprises:	Value added mushroom pickle and mushroom badi
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 4

Title of on-farm trial:	Assessment of malted sattu (Sprouted chick pea+ sprouted wheat) for Malnourished Children
Year/Season:	Rabi , 2023
Problem diagnosis:	Prevalence of malnutrition in children of age -3-5 years
Thematic area:	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Imbalance diet
T2 –Recommended Practice-	Sprouted chickpea -15 gm,+ sprouted wheat- 15 gm + Jaggery 10 gm @ 40 gm/day/child for 3 months (Fulfilling the 29% requirement of RDA)
Source of technology:	PAU, Ludhiana (2012)
Characteristics of technology:	Sprouted chickpea -15 gm,+ sprouted wheat- 15 gm + Jaggery 10 gm @ 40 gm/day/child for 3 months (Fulfilling the 29% requirement of RDA)
Name of Crop/Enterprises:	Malted sattu
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Kodo	Crop production	Demonstration of HYV variety JK 137 of kodo under Kodo - mustard cropping sequence	Seed	Kharif, 2023	2	5	Plant height (cm) , No of tillers, Yield(q/ha), B:C Ratio
2	Paddy	Crop production	Demonstration of HYV variety (JR 81/JR 206) under Rice-Chickpea cropping sequence	Seed	Kharif, 2023	2	5	Plant height (cm) , No of tillers, No. of plants), Yield(q/ha), B:C Ratio
3	Azolla	Crop production	Demonstration of Azolla for poultry birds under backyard poultry system	Azolla	Round the year,2023-24	-	10	No of egg production after 6 month, B: C Ratio
4	Chickpea	Crop production	Demonstration of Seed treatment (Biofertilizers) and line sowing of HYV of chickpea (JG 36) through seed cum fertilizers drill under Paddy-chickpea cropping system	Seed	Rabi, 2023	2	5	Plant height (cm) , Pods /plant (No./plant) , Yield (q/ha), B: C Ratio
5	Linseed	Crop production	Demonstration of Seed treatment (Biofertilizers) and line sowing of HYV of linseed (JLS 73/79) through seed cum fertilizer drill under paddy-linseed cropping system	Seed	Rabi, 2023	2	5	Plant height (cm) , Capsule /plant (No) , Yield (q/ha), B: C Ratio
6	Vegetables	Demonstration	Nutritional	Seed and	Round the	01	20	Per capita

		on kitchen gardening (Nutritional security)	garden	seedlings	year 2023			availability
7	Paushtik chapatti	Demonstration on nutritional enhancement of preschool children through incorporation of paushtik chapatti (fortification of Kodo flour, drumstick leaf powder to wheat flour) in their diet	Paushtik chapatti	fortification of Kodo flour, drumstick leaf powder to wheat flour	Kharif 2023	01	20	Nutrient Intake, Biometric measurements, sensory parameters
8	Mushroom production	Demonstration on income enhancement of FW through Mushroom production	Oyster mushroom production on wheat straw	Oyster mushroom production on wheat straw	Rabi 2023	01	5	Yield(Kg/bag), Cost of input, Incremental income, Net Return, Saving in Rs., B:C ratio
9	Backyard Poultry Farming	Demonstration on income enhancement of FW through Backyard Poultry Farming	Backyard Poultry Farming	Backyard Poultry Farming	Rabi 2023	01	5	Body wt (Kg), Egg Production (No/year), Increase in income (Rs.), B:C ratio

Demonstration of natural farming in Kodo–Pigeon pea cropping sequence	
Crop	Kodo
Thematic area	Integrated Crop Management under natural Farming
Technology for demonstration	Kodo Variety JK 137 (8-10 kg/ha) Seed Treatment with Beejamrut @ 20 ml / kg seed Soil application of Jeevamrut @ 500kg /ha or 200 li/acre before sowing Soil application of Ghanjeevamrit @ 500kg /ha in 2 equal splits during sowing and 30 DAS Live mulching: Intercropping (2:1) or mixed cropping of Red gram Foliar application of Jeevamrit @ 5-10 % at 20, 40, 60 and 80 DAS Foliar Application of Brmahstra @ 6 liter/500 liter water/ha for controlling shoot fly
Critical inputs	Seed, Drum, Jaggary (15 kg), Pulses flour (15 kg), sprayer pump
Season and year	Kharif/ 2023
Area(ha)	0.4 ha
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration: Pre & post Soil analysis, Plant height (cm), No. of tillers/plant, yield (q/ha),

	Local Check/ Farmer Practice: Pre & post Soil analysis, Plant height (cm), No. of tillers/plant, yield (q/ha),
Parameters identified	Pre & post Soil analysis, Plant height (cm) , yield (q/ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction
Cost of input	8500/-
Total cost	42500/-
Extension and Training	Training, Field day, method demonstration of beejamrut etc and Media coverage

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	August, Sep, Jan, Feb	100
2	Farmers Training	5	June, July, Oct, Nov.	100
3	Media coverage	5	June, July, Oct, Nov.	100
4	Training for extension functionaries	2	June, July, Oct, Nov.	40

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	CP	ICM in soybean	Biofertilizer, herbicides, pesticides	Kharif, 2023	20	50	Plant height, Yield, BC
2	Sesame	CP	ICM in sesame	Seed, Biofertilizer, herbicides, pesticides	Kharif, 2023	20	50	Plant height, Yield, BC
3	Pigeon pea	CP	ICM	Seed, Biofertilizer, herbicides,	Kharif, 2023	20	50	Plant height, Yield, BC

				pesticides				
4	Black gram	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Kharif, 2023	10	25	Plant height, Yield, BC
5	Green gram	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Kharif, 2023	10	25	Plant height, Yield, BC
6	Mustard	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Rabi, 2023	20	50	Plant height, Yield, BC
7	Linseed	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Rabi, 2023	20	50	Plant height, Yield, BC
8	Chickpea	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Rabi, 2023	20	50	Plant height, Yield, BC
9	Lentil	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Rabi, 2023	20	50	Plant height, Yield, BC
10	Field pea	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Rabi, 2023	10	25	Plant height, Yield, BC
11	Black gram	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Summer, 2023-24	20	50	Plant height, Yield, BC
12	Green gram	CP	ICM	Seed, Biofertilizer, herbicides, pesticides	Summer, 2023-24	20	50	Plant height, Yield, BC

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	Round the year as per CFLDs crops	240
2	Farmers Training	12	Round the year as per CFLDs crops	270
3	Media coverage	12	Round the year as per CFLDs crops	Mass
4	Training for extension functionaries	12	Round the year as per CFLDs crops	180

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	5	1	9	7	15	13	5	18	33
Resource Conservation Technologies	3	1	7	5	12	11	5	16	28
Integrated Farming	3	1	7	3	10	9	7	16	26

[illegible]

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Para extension workers									
TOTAL	3	13	14	11	25	16	13	29	54
(C) Extension Personnel									
Productivity enhancement in field crops									
Integrated Pest Management									
Integrated Nutrient management									
Protected cultivation technology									
Group Dynamics and farmers organization									
Capacity building for ICT application									
Livestock feed and fodder production									
Production and use of organic inputs									
Gender mainstreaming through SHGs									
Any other (Pl. Specify)									
Agroforestry	03	03	15	19	24	24	12	36	60
TOTAL	03	03	15	19	24	24	12	36	60

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	5	1	9	7	16	13	5	18	34
Resource Conservation Technologies	3	1	7	5	12	11	5	16	28
Cropping Systems	3	1	7	3	10	9	7	16	26
Crop Diversification	3	1	7	5	12	11	5	16	28
Integrated Farming	1	1	7	3	10	9	7	16	26
Water management	3	1	9	7	16	13	5	18	34
Seed production	1	1	7	5	12	11	5	16	28
Nursery management	1	1	7	5	12	11	5	16	28
Integrated Crop Management	1	1	4	2	6	9	7	16	22

Fodder production	1	1	7	5	12	11	5	16	28
Production of organic inputs	1	1	4	2	6	9	7	16	22
Total	23	11	75	49	122	117	63	180	304
II Horticulture									
a) Vegetable Crops									
Nursery raising									
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	04	04	-	40	40	-	40	40	80
Design and development of low/minimum cost	03	03	-	30	30	-	30	30	60

diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing	01	01	-	10	10	-	10	10	20
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care	02	02	-	20	20	-	20	20	40
Total	10	10	-	100	100	-	100	100	200
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry	14	14	42	28	70	140	70	210	280
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	1	5	4	1	5	6	3	9	14
IFS for	1	5	4	1	5	6	3	9	14

employment generation									
Sheep and goat rearing									
Agro forestry	01	30	07	04	11	09	05	14	25
TOTAL	03	40	15	6	21	21	11	32	53
(C) Extension Personnel									
Crop Production	3	3	8	10	18	20	10	30	48
Home Science	3	3	-	30	30	-	30	30	60
TOTAL	6	6	-	40	48	20	40	60	108

1. On Campus

Livestock production										
Home Science										
Jan	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
Feb	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
Mar	FW	WOE- Mushroom Production and its value addition	10	-	10	10	-	20	20	30
Mar	FW	WOE- Women and child care	01	-	10	10	-	10	10	20
April	FW	WOE- Design and development of low cost diet	01	-	10	10	-	10	10	20
May	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
July	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
July	FW	WOE- Design and development of High nutrient efficient diet	01	-	10	10	-	10	10	20
Aug	FW	WOE- Women and child care	01	-	10	10	-	10	10	20
Sep	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
Nov	FW	WOE- Women and child care	01	-	10	10	-	10	10	20
Dec	FW	WOE- Minimization of nutrient loss in processing	01	-	10	10	-	10	10	20
Dec	FW	WOE- Value addition	01	-	10	10	-	10	10	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Others- Agro-forestry										
June 2023	F/ FW	Scientific Cultivation of Turmeric under the Shade of tree.	01	05	03	08	08	04	12	20

June 2023	F/ FW	Planting techniques of Moringa and after its care.	01	05	03	08	08	04	12	20
July 2023	F/ FW	Scientific Cultivation of Fodder Production under Agri silvipasture system.	01	05	03	08	08	04	12	20
July 2023	F/ FW	Scientific Cultivation of Napier grass and their Importance.	01	05	03	08	08	04	12	20
Aug 2023	F/ FW	Eucalyptus based Agro forestry System and their Importance	01	05	03	08	08	04	12	20
Aug 2023	F/ FW	Training on Paddy with guava interaction Performance.	01	05	03	08	08	04	12	20
Sep 2023	F/ FW	Training on Drumstick plantation and its care.	01	05	03	08	08	04	12	20
Sep 2023	F/ FW	Training on kharif crop with Drumstick & Mango based Agroforestry System	01	05	03	08	08	04	12	20
Oct 2023	F/ FW	Integrated Farming system and their Importance.	01	05	03	08	08	04	12	20
Nov 2023	F/ FW	Importance of Fodder production along with Plantation.	01	05	03	08	08	04	12	20
Dec 2023	F/ FW	Guava Based Agro forestry technique and their care.	01	05	03	08	08	04	12	20
Jan 2024	F/ FW	Wasteland development through different Method of Agro forestry.	01	05	03	08	08	04	12	20
Feb 2024	F/ FW	Production & collection Technology of Mahua seed in Shahdol Distt.	01	05	03	08	08	04	12	20

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jan	F/FW	Soil health and fertility management - Integrated Nutrient management	1	3	3	6	7	3	10	16
Jan	F/FW	Crop production- ICM	1	4	1	5	6	3	9	14
Feb	F/FW	Crop production- Weed management	1	2	4	6	6	4	10	16
Mar	F/FW	Crop production- Integrated crop management	1	2	4	6	6	4	10	16
Apr	F/FW	Crop production- Water management	1	3	3	6	7	3	10	16
May	F/FW	Soil health and fertility management - Production of organic inputs	1	2	4	6	6	4	10	16

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
May	F/FW	Crop production- Integrated farming	1	3	3	6	7	3	10	16
Jun	F/FW	Crop production and management	1	4	1	5	6	3	9	14
Jun	F/FW	Soil health and fertility management - Integrated Nutrient management	1	2	4	6	6	4	10	16
Jul	F/FW	Crop production- Integrated farming	1	3	3	6	7	3	10	16
Jul	F/FW	Crop production and management	1	2	4	6	6	4	10	16
Jul	F/FW	Soil health and fertility management - Integrated Nutrient management	1	3	3	6	7	3	10	16
Aug	F/FW	Crop production- seed production	1	4	1	5	6	3	9	14
Sep	F/FW	Soil health and fertility management - Integrated Nutrient management	1	4	1	5	6	3	9	14
Oct	F/FW	Soil health and fertility management - Integrated Nutrient management	1	4	1	5	6	3	9	14
Oct	F/FW	Crop production- seed production	1	2	4	6	6	4	10	16
Horticulture										
Livestock production										
Home Science										
Jan	FW	WOE- Design and development of low cost diet	01	-	10	10	-	10	10	20
Mar	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
April	FW	WOE- Household food security by kitchen gardening and nutrition	01	-	10	10	-	10	10	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		gardening								
May	FW	WOE- Women and child care	01	-	10	10	-	10	10	20
June	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
July	FW	WOE- Women and child care	01	-	10	10	-	10	10	20
Aug	FW	WOE- Design and development of low cost diet	01	-	10	10	-	10	10	20
Sep	FW	WOE- Design and development of low cost diet	01	-	10	10	-	10	10	20
Oct	FW	WOE- Minimization of nutrient loss in processing	01	-	10	10	-	10	10	20
Nov	FW	WOE- Household food security by kitchen gardening and nutrition gardening	01	-	10	10	-	10	10	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Others- Agro - forestry										
March 2023	F/FW	Importance of Minor Forest Product for Additional Income.	01	05	03	08	08	04	12	20
April 2023	F/FW	Biological Control measure of Insect pest in planted tree and their management.	01	05	03	08	08	04	12	20
April 2023	F/FW	Training on Apiculture and their Management.	01	05	03	08	08	04	12	20
May 2023	F/FW	Planting technique of Eucalyptus,Teak, and Shisham and	01	05	03	08	08	04	12	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		their Management.								
May 2023	F/FW	Training on Production of Napier grass and Makka Chari for Animal Feed.	01	05	03	08	08	04	12	20
May 2023	F/FW	Intercropping system of different tree along with Kharif Crops and their Importance.	01	05	03	08	08	04	12	20
June 2023	F/FW	Scientific Cultivation of Makka chari based on Agroforestry system.	01	05	03	08	08	04	12	20
July 2023	F/FW	Training on “Paddy + Bunds on Moringa Based Agroforestry System.	01	05	03	08	08	04	12	20
Oct 2023	F/FW	Training on “Wheat + Bunds on Mango/Eucalyptus Based AgroHorticulture System.	01	05	03	08	08	04	12	20
Oct 2023	F/FW	Training on “Gram + Bunds on Guava/Eucalyptus Based Agroforestry System.	01	05	03	08	08	04	12	20
Nov 2023	F/FW	Training on “ Arhar + Eucalyptus Based Agroforestry System.	01	05	03	08	08	04	12	20
Dec 2023	F/FW	Wasteland Development through Babul, Aonla, Karanja plantation.	01	05	03	08	08	04	12	20
Jan 2024	F/FW	Important role on Jetropha & custard Apple in Human Life	01	05	03	08	08	04	12	20
Feb 2024	F/FW	Training on Method of Mahua seed /Flowers collection and their Advantage.	01	05	03	08	08	04	12	20
March 2023	F/FW	Importance of Minor Forest Product for Additional Income.	01	05	03	08	08	04	12	20

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Seed Production	F/FW	Seed production for cereals and pulses	3	4	1	5	6	3	9	14
Organic farming	F/FW	Importance of organic farming	3	4	1	5	6	3	9	14
IFS	F/FW	IFS for employment generation	3	4	1	5	6	3	9	14
Horticulture										
Livestock production										
Home Science										
March	RY	Mushroom Production	04	05	05	10	05	05	10	20
Dec	RY	Value addition of fruits and vegetables	04	05	05	10	05	05	10	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Others-										
Agro forestry-										
Feb 2024	RY	“Garden Keeper “Under Skill Development/ Organic farming System	30	07	04	11	09	05	14	25

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jul	F/FW	ICM for pulses	1	3	3	6	7	3	10	16
Jul	F/FW	INM for cereals	1	2	4	6	6	4	10	16
Jul	F/FW	IWM/INM for oil seed crops	1	3	3	6	7	3	10	16
Horticulture										
Livestock production										
Home Science										
May	INS	Nutritional importance of millets	01		10	10		10	10	20
July	INS	Care and nutrition of during first 1000 Days	01		10	10		10	10	20
Oct	INS	Training on Low cost and nutrient efficient diet designing	01		10	10		10	10	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Others- Agroforestry										
July 2023	INS	Different Intercropping system of	01	05	03	08	08	04	12	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		different trees along with Kharif Crops and Rabi Crops & their Importance.								
June 2023	INS	Wasteland Development through Jetroffa ‘ Aonla, Karanja and Eucalyptus plantation.	01	05	03	08	08	04	12	20
Oct 2023	INS	Biological Control measure of Insect pest in planted tree and their management.	01	05	03	08	08	04	12	20

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	ICM of Kharif pulse crops	ICM	01	F/FW	01								
2	ICM of Kharif oilseed crops	ICM	01	F/FW	01								
3	ICM of Rabi pulse crops	ICM	01	F/FW	01								
4	ICM of Rabi oilseed crops	ICM	01	F/FW	01								

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	08			650			25			625
Kisan Mela	01			1000			50			1050
Kisan Ghosthi	05			500			60			560
Exhibition	12			840			120			960
Film Show	10			300			25			325
Method Demonstrations	04			350			50			400
Farmers Seminar										
Workshop	02			200			20			220
Group meetings										
Lectures delivered as resource persons	48			2400			96			2496
Newspaper coverage	60			Mass						Mass
Radio talks	12			Mass						Mass
TV talks	10			Mass						Mass
Popular articles	10			5000						5000
Extension Literature	08			4000						4000
Advisory Services	84			31268			450			31718
Scientific visit to farmers field	100			500			250			750
Farmers visit to KVK	100			900			100			1000
Diagnostic visits	12			180			120			300
Exposure visits	12			840			120			960
Ex-trainees Sammelan	02			100			10			110
Soil health Camp	01			300			12			312
Animal Health Camp	01			50			10			60
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	04			800			48			148
Mahila Mandals Conveners meetings	02			200			12			212
Celebration of important days (specify)	08			800			80			880
Others (pl. specify)										
Total	520			52798			1658			54456+ Mass

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			
Green manure crop	Sunhemp	M-19	5

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
Saplings	Drumstick		2500
	Karonda		2500
	Papaya		2500
	Curry leaves		2500
Total			10000
SPICES			
VEGETABLES			
Seedlings	Vegetable seedling (Brinjal, Tomato, Chilli, cabbage and cauliflower)		1,00,000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			

3				
BIOFERTILIZERS				
1	Vermicompost	<i>Eisinea foetida</i>	-	1000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
Jan 23	January to March 2023	500
Apr 23	April to June 2023	500
Jul 23	July to September 2023	500
Oct 23	October to December 2023	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA
3	In-service personnel	PRA
4	methodology for identifying OFTs/FLDs	PRA, AES
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Rohaniya	Sohagpur	20
2	Marjat	Burhar	25
3	Meethi	Jaisinghnagar	70
4	Bahgarh	Burhar	35
5	Sinduri Bharri	Sohagpur	15

1. No. of farm families selected per village : 20-50
2. No. of survey/PRA to be conducted: Completed
- 3.

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:2012

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Soil testing mini kit	02	Not working due to lack of Soil Scientist
2	Soil testing lab set	01	Not working due to lack of Soil Scientist
3	Pelican Equipment	01	Working
4	Microprocessor Based Digital Photometer	01	Working
5	Digital Conductivity	01	Working
6	Computerized pH meter	01	Working
7	Grinder Willey Type	01	Working
8	Hot air oven	01	Working
9	Electronic Balance	01	Working
10	Automatic voltage stabilizer	01	Working
11	Spectrophotometer	01	Working
12	Electronic Balance	01	Working
13	Hot Plate	01	Working
14	Shaker Make	01	Working
15	Usha Turbo Exhaust	02	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agri. And farmers welfare	Technical support

ATMA	Technical support
Department of Horticulture	Technical support
Department of Veterinary Sciences	Technical support
Department of Fisheries	Technical support
M.P. Agro	Supply of agricultural input
Department of Agril. Engg.	Technical support
Soil Testing Department	Collaboration for recommendation on Soil test base nutrient application
DMO	Supply of fertilizer

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Demonstration	Technical support, Preparation of package of practices
Training and field visit	Technical guidance

Give details of programmers implemented under National Horticultural Mission NIL

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 200 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Blackgram	Summer	Mukundra Urd-2 (KPU 405)		
Blackgram	Summer	PU-35		
Greengram	Summer	MH-421		
Greengram	Summer	IPM 205-7(Virat)		
Clusterbean	Summer	GC -I		
Cowpea	Summer	Kashi Shyamal		
Cowpea	Summer	Kashi Gauri		
Bhindi	Summer	Kashi Mohini		
Bhindi	Summer	Kashi Lila		
Brinjal	Summer	Kashi Taru		
Brinjal	Summer	Kashi Sandesh (VRBHR-1)		
Sesame	Kharif	GT-4		
Sesame	Kharif	Suprava (CUMS-17)		
Black gram	Kharif	Mukundra Urd-2		

		(KPU 405)		
Black gram	Kharif	PU-35		
Greengram	Kharif	MH-421		
Greengram	Kharif	IPM 205-7(Virat)		
Soybean	Kharif	Jawahar Soybean (JS 20- 98)		
Soybean	Kharif	CG-1		
Maize	Kharif	JM- 218		
Maize	Kharif	Pusa Jawahar Hybrid Maize-1		
Kodo	Kharif	JK-137		
Kodo	Kharif	JK-41		
Kutki	Kharif	JK-4		
Kutki	Kharif	JK- 36		
Chickpea	Rabi	JG-36		
Chickpea	Rabi	JG- 14		
Linseed	Rabi	Jawahar Linseed Sagar-95 (JLS-95) (SLS-95)		
Linseed	Rabi	Utera Alsí (RLC-143)		
Lentil	Rabi	RVL-31		
Lentil	Rabi	Kota Masoor- 1		
Mustard	Rabi	PM- 30		
Mustard	Rabi	NRCHB- 101		
Wheat	Rabi	HI- 8759		
Wheat	Rabi	HI- 1605		
Tomato	Rabi	Arka Rakshak		
Tomato	Rabi	H-86 (Kashi Vishesh)		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost Unit	Vermicompost	4.5	10 q
Azolla Unit	Azolla	4	200 kg
Polyhouse	Off season vegetables	300	Broccoli 1q, cucumber 1q
Mist Chamber	Seedlings and saplings	100	Vegetable seedlings 1,00,000 and 10,000 saplings

Green House	Off season vegetables	300	Coriander 25 Kg, strawberry
Meadow Orchard	Guava- Allahabad Safeda	500	620 Kg
High Density Orchard	Mango- Amrapali	1700	680 Kg
Poultry	Kadaknath & Narmada Nidhi	30	100 Chicks.
NADEP	Raw Material and Cow dung	20	03 -05q.

ANNUAL ACTION PLAN 2023

KVK SIDHI

Year of sanction:....1994

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Shri M.S. Baghel	Sidhi	9827373305	Kvksidhi.2008@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Prof. M.S. Baghel	Sr. Scientist & Head	Horticulture	192900	16/07/1994	1994	9827373305	kvksidhi.2008@rediffmail.com	
2	Subject Matter Specialist	Dr. Alka Singh	Scientist	Home Science		29/01/2007	2007	9993640850	alkasingh80@gmail.com	
3	Subject Matter Specialist	Dr. Dhananjai Singh	Scientist	Agronomy		21/03/2007	2007	9424641061	dsingh_001@redigmail.com	
4	Subject Matter Specialist	Dr. A.K. Chaubey	Scientist	LPM		07/10/2011	2011	9424621441		
5	Subject Matter Specialist	-	-	--	--	-	--	--	--	-
6	Subject Matter Specialist	-	-	--	--	-	--	--	--	-
7	Subject Matter Specialist	-	-	--	--	-	--	--	--	-
8	Programme Assistant	Smt. Amrita Tiwari	Programme Assistant	Plant Protection		28/01/2019	2019	9340417200	amritapathology15@gmail.com	
9	Computer Programmer/ Programme Assistant	-	-	--	--	-	--	--	--	-
10	Farm Manager	-	-	--	--	-	--	--	--	-
11	Assistant	Shri Krishna Pal Singh	Assistant Grade III	Assistant Grade III		09/10/2006	2006	9685189399	-	-
12	Jr. Stenographer / Comp. Operator	-	-	--	--	-	--	--	--	-
13	Driver	Shri Santosh Kumar Raikwar	Driver	Driver		16/07/2008	2008	6266430628	-	-
14	Driver	-	-	--	--	-	--	--	--	-
15	Supporting staff	-	-	--	--	-	--	--	--	-

16	Supporting staff	-	-	- -	- -	-	- -	- -	- -	-

1.3 Total land with KVK (in ha): 34.36

S. No.	Item	Area (ha)
1	Under Buildings	0.37
2	Under Demonstration Units	0.20
3	Under Crops	7.00
4	Orchard/Agro-forestry	0.00
5	Others (Water logging and Hills)	26.79
Total		34.36

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR JNKVV, Jabalpur	1999			-	--	-
2	Farmers Hostel	ICAR JNKVV, Jabalpur	1999			-	--	-
3	Staff Quarters (6)	ICAR JNKVV, Jabalpur	2000			-	--	-
4	Demonstration Units (2)	-	--	-		-	--	-
5	Fencing	Jila panchayat sidhi	2017			-	--	-
6	Rain Water harvesting system	-	--	-		-	--	-
7	Threshing floor	-	--	-		-	--	-
8	Farm godown	-	--	-		-	--	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2005	-	-	Working
Motor Cycle 2	2011	51000	41600	Working
Bolero(Jeep)	2021	8,00,000	29133	Working
Other (Pl. specify)	-	--	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	20-12-2013	10396/-	Working
Xerox Machine	20-5-2006	42156/-	Working
Generator	29-3-2016	461791/-	Working
Video Camera	30-3-2009	8990/-	Working
Computer, Laser Printer	29-3-2016	72949/-	Working
UPS 600 VA	30-3-2007	8100/-	Not Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	24-05-2023
2	28-09-2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice- Wheat/Gram/Mustard
2	AES – 2	Greengram/Black gram-Wheat/Gram/Mustard
3	AES – 3	Sesame- Wheat/Gram/Mustard
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	1039.2
Forest	434.8
Waste Land	16.6
Other than cultivated area	
Cultivable waste and alkaline land	65.7
Pastures	14.5
Bushes	
Current Fallow	42.9
Other Fallow	28.0
Agricultural Land	1039.2
Area Sown	353.6
Kharif	
Rabi	
Zaid	
Cropping Intensity	136

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	13.3
2	Well	30.9
3	Tube well	15.3
4	Ponds	0.8
5	Others	11.6

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep		486.2
2	Medium		211.4
3	Shallow		353.6
4			

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	103200		39.0
2	Pigeonpea	21600		13.6
3	Maize	4550		21.4
4	Wheat	118000		39.50
5	Gram	17500		17.60
6	Mustard	10000		11.50

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	25.6		
Feb, 22	5.0		
Mar, 22	0.00		
Apr, 22	0.00		
May, 22	18.3		
Jun, 22	95.2		
July, 2022	164.3		
Aug., 2022	323.1		
Sept., 2022	224.1		
Oct. 2022	203.6		
Nov. 2022	0.00		

Dec. 2022	0.00		

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	37677 / 482336	236.42 MT.	 kg
Buffalo	110308	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	12795	18.67 MT wool	 kg
Goats	299223	1.48 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	8684	---	---
Rabbits			
Poultry			
Hens	333337	230.83 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Gopad vanas	Sidhi	Sonakhand	Rice-Wheat	Low yield crop due lack of awareness about improved variety, highly susceptible old variety against diseases and insect, Weeds are more crucial problems in among problems for Kharif season crop	To facilitate the availability of seed of improved varieties of major crops Better input use management- INM, IPM, IDM
2	Gopad vanas	Sidhi	Sukhwari	Rice-Wheat	Low yield crop due lack of awareness about improved variety, highly susceptible old variety against diseases and insect, Weeds are more crucial problems in among problems for Kharif season crop	To facilitate the availability of seed of improved varieties of major crops Better input use management- INM, IPM, IDM
3	Rampur Naikin	Rampur Naikin	Sajaha	Rice-Wheat	Low yield crop due lack of awareness about improved variety, highly susceptible old variety against diseases and insect, Weeds are more crucial problems in among problems for Kharif season crop	To facilitate the availability of seed of improved varieties of major crops Better input use management- INM, IPM, IDM
4						
5						

Priority / Thrust areas

S. No.	Particulars
1.	To facilitate the availability of seed of improved varieties of major crops (Rice/Blackgram/Greengram /Sesame/Wheat/ Gram//Mustard)
2.	Better input use management-INM, IPM, IDM
3	To motivate farmers towards the cultivation of Vegetables/ Spices/ Medicinal crops
4	Balance feeding of milch animal and health management
5	Need to organize Agri-based Vocational trainings for Self-employment of Rural Youth
6	Conservation of natural recourses and use of Organic and Bio-fertilizer
7	To create awareness regarding post harvest losses during storage and value additions to Agro-products
8	Women empowerment through training and farm mechanization

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
12	120	09	100

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
29	585	20	1286

Seed Production (Qtl.)	Planting material (Nos.)
0	0

B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
1	Varietal Replacement	Rice	Low yield due to degenerated seed of old variety MTU 100	Assessment of Rice variety JR 206 in Rice-Wheat/chickpea cropping system under direct seeded condition					
2	Varietal Replacement	Kodo	Low yield due to use of degenerated seed of local variety (Kodai)	Assessment of Kodo variety JK 137 under upland condition					
3	Varietal Replacement	Wheat	Low yield due to old variety and degenerated seed.	Assessment of bio-fortified wheat variety JW 1358 in Rice-Wheat cropping system under irrigated condition					
4	Varietal Replacement	Kutki			Demonstration of Kutki variety JK 4				
5	Varietal Replacement	Barley			Demonstration of high yielding variety JB 58 of barley crop				
6	Nutritional security	Sweet Potato	Poor health due to unavailability of proper nutrition	Assessment of bio-fortified sweet potato variety Bhukanti for nutritional security of farm families					
7	Nutritional security	Rice	High magnitude of	Assessment of suitability of CR Dhan-310					

			malnutrition among farm families	to improve the nutritional status of the farm family					
8	Nutritional security	Drumstick leaves powder with amla powder	Malnutrition due to anaemia (75%) in rural women	Assessment of Drumstick leaves powder with amla powder for prevention of anemia					
9	Nutritional security	Wheat	Poor health of farm family due to unavailability of proper nutrition	Assessment of bio-fortified wheat variety WB-02 for nutritional security of farm family					
10	Nutritional security	Seasonal Vegetables			Demonstration of Nutritional Kitchen garden at backyard.				
11	Income Generation				Demonstration of Oyster mushroom for income generation				
12	Income Generation				Demonstration of Kadaknath chicks				
13	Weed Management	Wheat	Yield reduced due to heavy weed infestation in wheat crop	Assessment of clodinafop 15% + metsulfuron 1% at 25-35 DAS for weed management in wheat of rice-wheat cropping system					
14	Weed Management	Pigeonpea			Demonstration of Imazethapyr @ 100 g a.i./ha for weed management in Pigeon pea				
15	Resource conservation	Biodecomposer			Demonstration of bio				

	n				decomposer for decompositi on of crop residues				
16	IDM	Rice	Sever yield loss (up to 40%) in rice due severe incidence (up to 60%) of false smut.	Assessment of IDM Modules for management of false smut in rice crop.					
17	IDM	Greengram	Heavy infestation of yellow mosaic results in yield loss up to 60- 70%	Assessment of IDM module for the management of yellow mosaic in greengram crop					
18	IDM	Lentil	Yield loss 25-50%	Assessment of integrated wilt disease management in Lentil					
19	IDM	Sesame			Demonstrati on of phytophthora blight disease management in Sesame				
20	IDM	Mustard			Management of aphids in Mustard				
21	ITK	Brinjal	Yield and economic loss due to shoot and fruit borer	Aseessment of Tobacco (<i>Nicotiana tobaccum</i>) soaked water to control shoot and fruit borer in Brinjal (<i>Solanum melongena</i>)					

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

[illegible]

Replacement										
Nutritional security	02	0	0	0	0	01	0	0	01	04
Weed Management	01	0	0	0	0	0	0	0	0	01
IDM	01	0	02	0	0	0	0	0	0	03
ITK	0	0	0	0	01	0	0	0	0	01
TOTAL	07	0	02	0	01	01	0	0	01	12

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	
Title of on farm trial	
Problem diagnosed	
Farmers' Practices	
Details of technologies selectedfor assessment	
Source of technology	
Plot size	
No. of farmers	
Total cost	
Critical input	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ :
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded	

	Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT: 01

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Rice variety JR 206 in Rice-Wheat/chickpea cropping system under direct seeded condition
Year/Season:	Kharif- 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to degenerated seed of old variety MTU 100
Thematic area:	Varietal Replacement
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	MTU 1010
T2 –Recommended Practice-	JR 206
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur - 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 02

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Kodo variety JK 137 under upland condition
Year/Season:	Kharif- 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to use of degenerated seed of local variety (Kodai)
Thematic area:	Varietal Replacement
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Kodai
T2 –Recommended Practice-	JK 137
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur - 2015
Characteristics of technology:	
Name of Crop/Enterprises:	Kodo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 03

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of bio-fortified wheat variety JW 1358 in Rice-Wheat cropping system under irrigated condition
Year/Season:	Rabi- 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety and degenerated seed.
Thematic area:	Varietal Replacement
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JW 3211
T2 –Recommended Practice-	JW 1358
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur, 2021
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 04

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/	Agronomy

Fisheries etc)	
Title of on-farm trial:	Assessment of clodinofof 15% + metsulfuron 1% at 25-35 DAS for weed management in wheat of rice-wheat cropping system
Year/Season:	Rabi- 2023
Farming situation:	Irrigated
Problem diagnosis:	Yield reduced due to heavy weed infestation in wheat crop
Thematic area:	Weed management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No weed management
T2 –Recommended Practice-	Clodinofof 15% + Metsulfuron 1% @ (60+4 g/ha) at 25-35 DAS
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DWR, Jabalpur-2017
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 05 (ITK)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Aseessment of Tobacco (<i>Nicotiana tabaccum</i>) soaked water to control shoot and fruit borer in Brinjal (<i>Solanum melongena</i>)
Year/Season:	Kharif- 2023
Farming situation:	Irrigated
Problem diagnosis:	Yield and economic loss due to shoot and fruit borer
Thematic area:	ITK
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Chlorpyrifos 20 EC (1000 ml/ha) or Indoxacarb 14.5 % SC (60 ml/ha)
T2 –Recommended Practice-	Clodinofof 15% + Metsulfuron 1% @ (60+4 g/ha) at 25-35 DAS
T3- Recommended Practice-	Tobacco (<i>Nicotiana tabaccum</i>) soaked water (1:10)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Cross Sectoral Validation of indigenous technical knowledge, 2004.

	ICAR, New Delhi
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 06

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of IDM Modules for management of false smut in rice crop.
Year/Season:	Kharif- 2023
Farming situation:	Irrigated
Problem diagnosis:	Sever yield loss (up to 40%) in rice due severe incidence (up to 60%) of false smut.
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One spray of Carbendazim-50 WP @ 0.05% after spore ball formation
T2 –Recommended Practice-	Seed treatment with Tebuconazole -@ 1g/Kg seed
T3- Recommended Practice-	Seed treatment with Carboxim+Thiram @ 3g/ kg seed + two foliar spray of Propiconazole – 25 SC @ 1ml/ liter of water at tillering and 50% panicle emergence
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DRR Hyderabad 2012
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 07

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of IDM module for the management of yellow mosaic in greengram crop

Year/Season:	Kharif- 2023
Farming situation:	Rainfed
Problem diagnosis:	Heavy infestation of yellow mosaic results in yield loss up to 60-70%
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Removal of Mosaic infected greengram plants
T2 –Recommended Practice-	Removal of Mosaic infected greengram plants + Use of yellow trap 20 trap/ha
T3- Recommended Practice-	Removal of Mosaic infected plants + Use of yellow trap 20 trap/ha + Spray of insecticide Imidacloprid @ 375 ml/ha for the control of white flies at later stage
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indian Institute of Pulse Research , Kanpur, 2009
Characteristics of technology:	
Name of Crop/Enterprises:	Greengram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 08

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of integrated wilt disease management in Lentil
Year/Season:	Rabi- 2023
Farming situation:	Rainfed
Problem diagnosis:	Yield loss 25-50%
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No Application of fungicide
T2 –Recommended Practice-	Seed treatment with T. viride @ 5gm/kg seed + Seed treatment with carboxin 75 WP @ 2.5 g/kg seed + Thirum @ 2g/kg seed
T3- Recommended Practice-	Soil treatment with T. viride @ 5kg/ha + Seed treatment with carboxin 75 WP @ 2.5 g/kg seed + Thirum @ 2g/kg seed
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, 2007

Characteristics of technology:	
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

Title	-
Season & Year	-
Problem identified	-
Thematic Area	-
Farming situation	-
Name of Technology Intervention under study	-
Farmers Practice	-
No. of replication (Farmers)	-

Results / findings

Performance indicators/ parameters	Unit/ details
-	-

Information about Home Science OFT: 09

Title of on-farm trial:	Assessment of bio-fortified sweet potato variety Bhukanti for nutritional security of farm families
Year/Season:	Kharif-2023
Problem diagnosis:	Poor health due to unavailability of proper nutrition
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Local variety
T2 –Recommended Practice-	Bhukanti
Source of technology:	Navsari Agriculture University, Navsari, Gujarat (2016)
Characteristics of technology:	
Name of Crop/Enterprises:	sweet potato
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-

Information about Home Science OFT: 10

Title of on-farm trial:	Assessment of suitability of CR Dhan-310 to improve the nutritional status of the farm family
Year/Season:	Kharif-2023
Problem diagnosis:	High magnitude of malnutrition among farm families
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Paddy variety MTU1010
T2 –Recommended Practice-	Paddy variety CR Dhan-310
Source of technology:	NRI, Cuttak(2018)
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 11

Title of on-farm trial:	Assessment of Drumstick leaves powder with amla powder for prevention of anemia
Year/Season:	Rabi-2023
Problem diagnosis:	Malnutrition due to anaemia (75%) in rural women
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of Drumstick
T2 –Recommended Practice-	Drumstick leaves powder (10 g/person/day)
T3 –Recommended Practice-	Drumstick leaves powder10g with 5 g Amla powder (15 g/p/day)
Source of technology:	Guntur, Andhra Pradesh (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	Drumstick
Farming situation:	Irrigated

Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 12

Title of on-farm trial:	Assessment of bio-fortified wheat variety WB-02 for nutritional security of farm family
Year/Season:	Rabi-2023
Problem diagnosis:	Poor health of farm family due to unavailability of proper nutrition
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Lok-1
T2 –Recommended Practice-	Bio-fortified wheat variety WB-02
Source of technology:	Guntur, Andhra Pradesh (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	wheat
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Kutki	Varietal Replacement	Kutki variet JK 4	Seed of JK 36	Kharif-2023	4.0	10	Plant height (cm), No of panicles/running meter, Yield (q/ha) and Economic parameter
2	Pigeonpea	Weed management	Demonstration of Imazethapyr @ 100 g a.i./ha for weed management in Pigeon pea	of Imazethapyr @ 100 g a.i./ha	Kharif, 2023	4.0	10	No of branch/plant, No of pods/plant, No of seed/pod, Yield (q/ha) and Economic parameters
3	Bio decomposer	Resource conservation	Demonstration of bio decomposer for decomposition of crop residues	Bacterial base decomposer @ 500ml for one ton raw material+Bio decomposer @ 500 ml Bio decomposer (<i>Bacterial base</i>) and 500 ml Bio decomposer (<i>Fungal base</i>).	Rabi-2023	-	10	Days taken in decomposition, Recovery percent and Economic parameters
4	Barley	Varietal Replacement	Demonstration of high yielding variety JB 58 of barley crop	Seed of JB 58	Rabi-2023	4.0	10	Plant height (cm), No of tillers/running meter, Spike length (cm), Yield (q/ha) and Economic parameters
5	Sesame	Integrated disease management	Demonstration of phytophthora blight disease management in Sesame	Fungicide	Kharif 2023	4.0	10	% Disease incidence, % Reduction in disease incidence, Yield (kg/ ha), economics
6	Mustard	Integrated pest management	Demonstration of imidacloprid 17.8% SL @ 150 ml /ha (30-35 DAS) and thiamethoxam 25% WG 200 gram/ha management of aphids in Mustard	Insecticide	Rabi, 2023-224	4.0	10	No. of infected pod/ plant, Yield (q/ha)

7	Nutritional Kitchen garden	Nutritional Security	Demonstration of Nutritional Kitchen garden at backyard.	Seedling and sapling distribution	Kharif and Rabi 2023	250Sqm	20	Yield, Per capita consumption gm/day, Nutrient Intake/ day
8	Mushroom	Income Generation	Demonstration of Oyster mushroom for income generation	Spawn	Kharif 2023	-	10	Yield/bag, Net return, B:C ratio
9	Backyard Poultry	Income Generation	Demonstration of Kadaknath chicks	Kadaknath chicks	Rabi 2023	-	10	Weight in Kg, Net income

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	September & February	60
2	Farmers Training	04	July & October	85
3	Media coverage	06	June, August, October and December	Mass
4	Training for extension functionaries	02	June & October	50

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	--	--	--	--	--	--	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	--	--	--	--	--	--	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Greengram	ICM	ICM	Seed,	Kharif-	10	25	Plant height (cm), No

				Biofertilizer, Fungicide, Weedicide, Insecticide	2023			of branches/plant, No of pods/plant, Yield (q/ha) and Economic parameters
2	Blackgram	ICM	ICM	Seed, Biofertilizer, Fungicide, Weedicide, Insecticide	Kharif-2023	10	25	Plant height (cm), No of branches/plant, No of pods/plant, Yield (q/ha) and Economic parameters
3	Sesame	ICM	ICM	Seed, Biofertilizer, Fungicide, Weedicide, Insecticide	Kharif-2023	10	25	Plant height (cm), No of branches/plant, No of capsule/plant, Yield (q/ha) and Economic parameters
4	Chickpea	ICM	ICM	Seed, Biofertilizer, Fungicide, Weedicide, Insecticide	Rabi-2023	10	25	Plant height (cm), No of branches/plant, No of pods/plant, Yield (q/ha) and Economic parameters
5	Lentil	ICM	ICM	Seed, Biofertilizer, Fungicide, Weedicide, Insecticide	Rabi-2023	10	25	Plant height (cm), No of branches/plant, No of pods/plant, Yield (q/ha) and Economic parameters
6	Linseed	ICM	ICM	Seed, Biofertilizer, Fungicide, Weedicide, Insecticide	Rabi-2023	10	25	Plant height (cm), No of branches/plant, No of capsule/plant, Yield (q/ha) and Economic parameters

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	September & February	60
2	Farmers Training	04	July & October	85
3	Media coverage	06	June, August, October and December	Mass
4	Training for extension functionaries	02	June & October	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	0	0							
Resource Conservation Technologies	0	0							
Integrated Farming	0	0							
Water management	0	0							
Seed production	0	0							
Integrated Crop Management	04	08							

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management									
Poultry Management	0	0							
Disease Management	0	0							
Feed management	0	0							
Production of quality animal products	0	0							
Total	0	0							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	4							
Design and development of low/minimum cost diet	0	0							
Designing and development for high nutrient efficiency diet	0	0							
Minimization of nutrient loss in processing	0	0							
Gender mainstreaming through SHGs	0	0							
Value addition	1	2							
Income generation activities for empowerment of rural Women	1	2							
Location specific drudgery reduction technologies	0	0							
Women and child care	2	2							
Total	06	12							
VI Agril. Engineering									
Total	0	0							
VII Plant Protection									
Integrated Pest Management	0	0							
Integrated Disease Management	0	0							
Bio-control of pests and diseases	0	0							
Production of bio control agents and bio pesticides	0	0							
Total	0	0							
VIII Fisheries									
	0	0							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Integrated fish farming	0	0									
Total	0	0									
IX Production of Inputs at site											
Vermi-compost production	0	0									
Organic manures production	0	0									
Total	0	0									
X Capacity Building and Group Dynamics											
Leadership development	0	0									
Group dynamics	0	0									
Formation and Management of SHGs	0	0									
Mobilization of social capital	0	0									
Entrepreneurial development of farmers/youths	0	0									
WTO and IPR issues	0	0									
Total	0	0									
XI Agro-forestry	0	0									
Total	0	0									
XII Others (Pl. Specify)	0	0									
Grand Total	11	22									
(B) RURAL YOUTH											
Mushroom Production	0	0									
Bee-keeping	0	0									
Seed production	1	3									
Planting material production	0	0									
Vermi-culture	1	3									
Value addition	0	0									
Sheep and goat rearing	0	0									
Para extension workers	0	0									
TOTAL	02	06									
(C) Extension Personnel											
Productivity enhancement in field crops	1	3									
Integrated Pest Management	0	0									
Integrated Nutrient management	1	3									

[illegible]

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	2							
Resource Conservation Technologies	1	2							
Cropping Systems	1	2							
Crop Diversification	1	2							
Integrated Farming	1	2							
Water management	1	2							
Seed production	1	2							
Nursery management	1	2							
Integrated Crop Management	1	2							
Fodder production	0	0							
Production of organic inputs	1	02							
Total	10	20							
II Horticulture									
a) Vegetable Crops									
Nursery raising	0	0							
Export potential vegetables	0	0							
Protective cultivation (Green Houses, Shade Net etc.)	0	0							
b) Fruits									
Cultivation of Fruit	0	0							
Management of	0	0							

young plants/orchards									
Export potential of ornamental plants	0	0							
Propagation techniques of Ornamental Plants	0	0							
d) Plantation crops	0	0							
e) Tuber crops	0	0							
f) Spices	0	0							
g) Medicinal and Aromatic Plants	0	0							
III Soil Health and Fertility Management	0	0							
Soil fertility management	0	0							
Soil and Water Conservation	0	0							
Integrated Nutrient Management	0	0							
Production and use of organic inputs	0	0							
Management of Problematic soils	0	0							
Micro nutrient deficiency in crops	0	0							
Nutrient Use Efficiency	0	0							
Soil and Water Testing	0	0							
IV Livestock Production and Management									
Dairy Management	0	0							
Poultry Management	0	0							
Disease Management	0	0							
Feed management	0	0							
Production of quality animal products	0	0							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	4							
Design and development of low/minimum cost diet	0	0							
Designing and development for high nutrient efficiency diet	0	0							
Minimization of nutrient loss in processing	0	0							
Gender mainstreaming through SHGs	0	0							
Storage loss minimization techniques	0	0							
Value addition	0	0							
Income generation activities for empowerment of	2	4							

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	Farmers & Farm women	Integrated Crop Management Greengram and Blackgram	2							
July	Farmers & Farm women	Integrated Crop Management of	2							
October	Farmers & Farm women	Integrated Crop Management	2							
October	Farmers & Farm women	Integrated Crop Management	2							
August	Farmers & Farm women	Soil fertility management	2							
Horticulture										
0	0	0	0							
0	0	0	0							
Livestock production										
0	0	0	0							
0	0	0	0							
0	0	0	0							
Home Science										
January	Farmers & Farm women	Training on Importance of nutritional garden to improve immunity	2							
March	Farmers & Farm women	Training of Healthy diet, healthy living	2							
May	Farmers & Farm women	Training on Balanced diet for healthy life	2							
July	Farmers & Farm women	Training on child health and education	2							
August	Farmers & Farm women	Post harvest management	2							
October	Farmers	Livelihood	2							

	& Farm women	security through Kadaknath								
Plant Protection										
0	0	0	0							
0	0	0	0							
0	0	0	0							
Agriculture Extension (Capacity Building and Group Dynamics)										
0	0	0	0							
0	0	0	0							
0	0	0	0							
Soil Science										
0	0	0	0							
0	0	0	0							
0	0	0	0							

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	Farmers & Farm Women	Weed Management	2							
Novemver	Farmers & Farm Women	Resource Conservation Technologies	2							
April	Farmers & Farm Women	Cropping Systems	2							
May	Farmers & Farm Women	Crop Diversification	2							
June	Farmers & Farm Women	Integrated Farming	2							
November	Farmers & Farm Women	Water management	2							
January	Farmers & Farm Women	Seed production	2							
July	Farmers & Farm Women	Nursery management	2							
December	Farmers & Farm Women	Integrated Crop Management	2							
March	Farmers & Farm Women	Production of organic inputs	2							
Horticulture										
0	0	0	0							
0	0	0	0							
Livestock production										
0	0	0	0							
0	0	0	0							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
0	0	0	0							
Home Science										
February	Farmers & Farm Women	Training of Rural youth on Dietary management during deficiency diseases								
April	Farmers & Farm Women	Training on Nutrition based agriculture	1							
June	Farmers & Farm Women	Training on nutritional deficiency ka upchar- santulit aahar	1							
August	Farmers & Farm Women	Income generation through Mushroom Production	1							
October	Farmers & Farm Women	Livelihood and Nutritional security through biofortified varieties	1							
December	Farmers & Farm Women	Nutritional security through Kitchen gardening	1							
Plant Protection										
0	0	0	0							
0	0	0	0							
0	0	0	0							
Agriculture Extension (Capacity Building and Group Dynamics)										
0	0	0	0							
0	0	0	0							
0	0	0	0							
Soil Science										
0	0	0	0							
0	0	0	0							
0	0	0	0							

Vocational Training Programme for Rural Youth:

Month/	Clientele	Title of the	Duration	Number of participants					Grand

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	0	0 0	0
OILSEEDS			
	0	0 0	0
PULSES			
	0	0 0	0
VEGETABLES			
	0	0 0	0
FLOWER CROPS			
	0	0 0	0
OTHERS (Specify)			
	0	0 0	0

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	0	0 0	0
SPICES			
	0	0 0	0
VEGETABLES			
	0	0 0	0
FOREST SPECIES			
	0	0 0	0
ORNAMENTAL CROPS			
	0	0 0	0
PLANTATION CROPS			
	0	0 0	0
Others (specify)	0	0 0	0

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS		0	0 0	0
1	Trichoderma			
2	Rhizobium	0	0 0	0
3				
BIOFERTILIZERS				
1	Vermicompost	0	0 0	0
2	NADEP	0	0 0	0
3				

BIO PESTICIDES				
1	Dasparni arkl	0	0 0	0
2	Pesticides	0	0 0	0
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
	0	0 0	0	
SHEEP AND GOAT				
	0	0 0	0	
POULTRY	0	0 0	0	
FISHERIES	0	0 0	0	
Others (Specify)	0	0 0	0	

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
		1000
		1000
		1000
		1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	0	0 0	0
2			
3			

Success stories/Case studies identified for development as a case: 04.(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA
3	In-service personnel	PRA
4	methodology for identifying OFTs/FLDs	PRA
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Sonakhand	Sidhi	10
2	Sukhwari	Sidhi	10
3	Sajha	Rampur Naikin	40
4			
5			
6			
7			
8			

1. No. of farm families selected per village : 04
2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:...2007

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	- -	-
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	- -	- -	-
Water Samples				
Total	-	- -	- -	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture	Technical
ATMA	Technical
Horticulture	Technical
Veterinary	Technical
Fishery	Technical

Details of linkage with ATMA / NFSM**a) Is ATMA implemented in your district**

Yes/No

Name of Programme	Nature of linkage
Farm School	Technical

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
-	- -	-

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 750 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 20-34, JS 20-29, JS 20-69 and JS 20-98 and JG 9560	YMV Resistant	3X3 m (36 m ²)
Sesame		TKG 22,TKG 306 and TKG 308	Phytophthora Blight resistant and drought tolerant	3X3 m (90 m ²)
Turmeric		BSRB 2, Suranjana, IT 2 and IT 36	High yielding and Drought tolerant	3X3 m (54 m ²)
Ginger		Suruchi and Suprabha		
Blackgram and Green gram		T 9, PU 35, IPU 2-43 and Indira urd pratham and PDM 137, Shikha, TMV 137, TJM 37, Virat, and TJM 3	Short duration and YMV Resistant	3X3 m (90 m ²)
Wheat	Rabi	JW 3020, JW 3173, JW3211, JW3288, JW3382,GW 273, GW 322, GW 366, C 306 and Lok-1	High yielding and heat tolerant	2X 2.5 m (55 m ²)
Chickpea	Rabi	JG 36, JG12, JG16, JG 322, JG 74, JG11, JAKI 9218, JG 63 and JKG 5	Wilt resistant and drought tolerant	2X 2.5 (50 m ²)
Fieldpea	Rabi	Aman, PSM 3,Kashi Nandni and IPF 9225	Powdery mildew resistant and drought tolerant	
Vegetable	Rabi	Spinach, Laal Bhaji, Coriander, Methi, KasuriMethi, Lady's finger & Bottle Guard and Pumpkins	High yielding	3X3 m (54 m ²) and ½ Acre

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Azolla Productin unit			
Vermicompost unit			
Medicinal unit			
Medo Orchard			
High Density Orchard			
Mushroom			
Kithchen Garden			
Roof Garden			

Zero Energy Cool Chamber			
Natural Farming Product			

KVK : Singrauli

Year of Establishment : 2018

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Jai Singh , I/C	09424641062	09424641062	Sidhi_jai01@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 20.09

S. No.	Item	Area (ha)
1	Under Buildings	0 .09
2	Under Demonstration Units	1.0
3	Under Crops	7.0
4	Orchard/Agro-forestry	3.0
5	Others (specify)	9.0
Total		20.09

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	25.05.2022	600		01.06.2019		Complete
2	Farmers Hostel	ICAR	25.05.2022	300		01.06.2019		Complete
3	Staff Quarters (6)							
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system			0.40				
7	Threshing floor							
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2020	800000.0	700 hours	Good
Motor Cycle 2				
Bolero(Jeep)	2019	800000.0	75000	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer	2020	65000.0	
Laptop	2020	65000.0	
LCD Projector	2020	48000.0	

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	17.03.2023
2	06.06.2023
3	06.10.2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice – Wheat
2	AES – 2	Maize-Chickpea
3	AES – 3	Pigeon- Fallow
4	AES – 4	Pigeonpea + Kodo - Fallow
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Rice – Wheat (Clay loam deep Soil , Highly fertile, Plain topography and irrigated)
2	AES - 2	Maize – Chickpea (Medium letrite soil, topography undulated and partially irrigated)
3	AES – 3	Pigeonpea - Fallow (Medium letrite soil, topography undulated and unirrigated)
4	AES – 4	Pigeonpea + Kodo- Fallow (sandy soil, topography undulated and unirrigated)
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (name)

Strength	Weakness	Opportunities	Threats
- Clay deep Soil - Rich Organic content - Good irrigation facilities - Climatic conditions of the district are congenial for growing wide range of crop species, thus there is good scope for crop diversification - Good connectivity to major cities through roads and railways - Fertilizer consumption in the district is very low (25 kg/ ha) thus there is good scope for promoting organic agriculture	- Small and fragmented land holdings in the district makes the adoption of innovative technologies difficult - Poor ground water table and shallow soils - Poor purchasing power of the farmers unable farmers to arrange agri inputs at right time - Lack of processing infra structure in the district - Large no. of unproductive livestock's - Faster depletion of ground water leading to ecological imbalance - Poor access of small and marginal farmers to agricultural credit	- Good scope for promoting soil and water conservation measures - Great scope for increasing cropping intensity in the district - Scope for recycling of organic wastes and improvement in soil health - The district has 22 % area of total geographical area under waste land so, there is good scope for bringing waste lands under fruit culture - Good scope for promoting high valued crops - The district has high population of cattle provide good scope for organic agriculture as well as increasing milk production through breed up gradation - The presence of diverse form of climate and soils provide good scope for diversification.	- Small and marginal holdings of the farmers will result in the poor adoption of improved crop production technology. 72 % of the cultivable land is rain fed so, there are always chance of crop failure under low and erratic rainfall situations - Frequent draughts in each successive 3 years poses serious challenge to farm families for their livelihood earning

AES-2 (name)

Strength	Weakness	Opportunities	Threats
- Good connectivity to major cities through roads and railways - Varied Agro climatic conditions of the district are suitable for raising horticultural crops (vegetable spices , flower and medicinal crops) particularly during rainy season when the vegetable and spices can not be grown in plains	- Small and fragmented land holdings in the district makes the adoption of innovative technologies difficult - About three forth portion of the cultivable land is rain fed - Undulating topography and sloppy lands favors conditions for soil erosion and loss of fertile top soils - Poor ground water table and shallow soils - Poor purchasing poweof	- Good scope for promoting soil and water conservation measures - Great scope for increasing cropping intensity in the district - Scope for recycling of organic wastes and improvement in soil health - The district has 22 % area of total geographical area under waste land so, there is good scope for bringing waste lands under fruit culture - The presence of diverse form of climate and soils provide good scope for diversification - The district has 41 % forest area of	- Small and marginal holdings of the farmers will result in the poor adoption of improved crop production technology 72 % of the cultivable land is rain fed so, there are always chance of crop failure under low and erratic rainfall situations - Undulating and sloppy conditions

- Fertilizer consumption in the district is very low (25 kg/ ha) thus there is good scope for promoting organic agriculture - Climatic conditions of the district are congenial for growing wide range of crop species, thus there is good scope for crop diversification - The district has good potential for establishing allied agricultural occupations.	the farmers unable farmers to arrange agri inputs at right time - Lack of processing infra structure in the district - Large no. of unproductive livestock's - Stray cattle grazing system - Poor maintenance of common or panchayat ponds - Faster depletion of ground water leading to ecological imbalance - Poor access of small and marginal farmers to agricultural credit - Rigid and poor mind set of tribal's towards behavioural change	the total geographical area and the tribal's are heavily depended on forest produce for their livelihood so, their is good scoop for promoting livelihood security enterprises viz., value addition of forest produce, goatry , poultry and lac cultivation - Good scope for promoting high valued crops - The district has high population of cattle provide good scope for organic agriculture as well as increasing milk production through breed up gradation	will make the agricultural operations costlier and soils susceptible to soil erosion. - Frequent draughts in each successive 3 years poses serious challenge to farm families for their livelihood earning - Tribal populations being heavily dependents on forest, poses big threat to forests - Most of cultivable land are located deep inside the forest area there is always threat of crop damage by wild animals. - Unavailability of sufficient fodder , force the farmers to keep their livestock's for open grazing, thus, there is always threat of crop damage by livestock's. - Overexploitation of underground water for irrigation leading to faster depletion of ground water - Declining trends of agricultural lands due to conversion of agriculture land into industrial area - Small land holding becoming uneconomical forcing the farm families to out Migration - Increasing disinterest of rural youths towards agriculture

AES-3 (name)

Strength	Weakness	Opportunities	Threats
- Good connectivity to major cities through roads and railways - Varied Agro climatic conditions of the district are suitable for raising horticultural crops (vegetable spices ,	- Small and fragmented land holdings in the district makes the adoption of innovative technologies difficult - About three forth portion of the cultivable land is rain fed - Undulating topography	- Good scope for promoting soil and water conservation measures - Great scope for increasing cropping intensity in the district - Scope for recycling of organic wastes and improvement in soil health - The district has 22 % area of total geographical area under waste land so, there is good scope for	- Small and marginal holdings of the farmers will result in the poor adoption of improved crop production technology 72 % of the cultivable land is rain fed so, there are

flower and medicinal crops) particularly during rainy season when the vegetable and spices can not be grown in plains • Fertilizer consumption in the district is very low (25 kg/ ha) thus there is good scope for promoting organic agriculture • Climatic conditions of the district are congenial for growing wide range of crop species, thus there is good scope for crop diversification • The district has good potential for establishing allied agricultural occupations. •	and sloppy lands favors conditions for soil erosion and loss of fertile top soils • Poor ground water table and shallow soils • Poor purchasing power of the farmers unable to arrange agricultural inputs at right time • Lack of processing infrastructure in the district • Large no. of unproductive livestock's • Stray cattle grazing system • Poor maintenance of common or panchayat ponds • Faster depletion of ground water leading to ecological imbalance • Poor access of small and marginal farmers to agricultural credit • Rigid and poor mind set of tribal's towards behavioural change	bringing waste lands under fruit culture • The presence of diverse form of climate and soils provide good scope for diversification • The district has 41 % forest area of the total geographical area and the tribal's are heavily depended on forest produce for their livelihood so, there is good scope for promoting livelihood security enterprises viz., value addition of forest produce, goatry, poultry and lac cultivation • Good scope for promoting high valued crops • The district has high population of cattle provide good scope for organic agriculture as well as increasing milk production through breed up gradation	always chance of crop failure under low and erratic rainfall situations • Undulating and sloppy conditions will make the agricultural operations costlier and soils susceptible to soil erosion. • Frequent draughts in each successive 3 years poses serious challenge to farm families for their livelihood earning • Tribal populations being heavily dependents on forest, poses big threat to forests • Most of cultivable land are located deep inside the forest area there is always threat of crop damage by wild animals. • Unavailability of sufficient fodder, force the farmers to keep their livestock's for open grazing, thus, there is always threat of crop damage by livestock's. • Overexploitation of underground water for irrigation leading to faster depletion of ground water • Declining trends of agricultural lands due to conversion of agriculture land into industrial area • Small land holding becoming uneconomical forcing the farm families to out Migration • Increasing disinterest of rural youths towards agriculture

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	567.722
Forest	239.574
Waste Land	
Other than cultivated area	64.261
Cultivable waste and alkaline land	42.516
Pastures	12.754
Bushes	
Current Fallow	
Other Fallow	41.552
Agricultural Land	167.061
Area Sown	167.061
Kharif	151.170
Rabi	107.830
Zaid	0.0
Cropping Intensity	157.32 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	9749
2	Well	17061
3	Tube well	9723
4	Ponds	879
5	Others	9353

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Heavy Soil	Alluvial soil, Fertile, Topography Plain, Clay Loan , rich in Organic Content	11 %
2	Medium	Laterite soil and red loam,/ loamy Sandy soil, undulated topography	34%
3	Light	Red Sandy soil, Yellow sandy soil , undulated topography, low organic content	55%
4			

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (000,ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	48.54		3810
2	Maize	28.00		1824
3	Pigeon pea	26.00		805
4	Sesame	15.00		520
5	Black gram	8.00		601
6	Kodo-Kutaki	15.10		641
7	Jowar	6.88		1636
8	Green gram	1.15		690
9	Wheat	35.00		2809
10	Gram	28.50		1301
11	Barley	15.50		1793
12	Linseed	6.75		542
13	Mustard	12.0		782
14	Lentil	6.0		858
15	Field pea	2.20		1005
16				
17				

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22			
Feb, 22			
Mar, 22			
Apr, 22			
May, 22			
Jun, 22			
July, 2022			
Aug., 2022			
Sept., 2022			
Oct. 2022			
Nov. 2022			
Dec. 2022			

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Singrauli	Waidhan	Chitarwai Kalan	Rice, Wheat, Maize , Vegetable , Maize	1. Traditional agronomic practices 2. Lack of irrigation facilities 3. Undulated topography 4. Non adoption of scientific method of cultivation 5. Lack of knowledge among the farmers about the improved crop production techniques. 6. Severe pest and disease infestation 7. Severe weed infestation	1. Soil and Water conservation 2. Seed replacement 3. Promotion of Integrated farming system 4. Diversification of crops 5. Promotion of high value Horticultural crops 6. Livestock up gradation

					8. Use of grain as seed, 9. Little or imbalance use of fertilizers, 10. Moisture stress during crop growth period	7. Women empowerment 8. Multi level employment generation 9. Wasteland Development
2	Chitrangi	Chitrangi	Shivpurwa	Rice, Wheat, Pigeonpea, Sesame, Jowar, Chickpea, Kodo	1. Traditional agronomic practices 2. Lack of irrigation facilities 3. Undulated topography 4. Non adoption of scientific method of cultivation 5. Lack of knowledge among the farmers about the improved crop production techniques. 6. Severe pest and disease infestation 7. Severe weed infestation 8. Use of grain as seed, 9. Little or imbalance use of fertilizers, 10. Moisture stress during crop growth period	1. Soil and Water conservation 2. Seed replacement 3. Promotion of Integrated farming system 4. Diversification of crops 5. Promotion of high value Horticultural crops 6. Livestock up gradation 7. Women empowerment 8. Multi level employment generation 9. Wasteland Development
3	Chitrangi	Chitrangi	Chitawal	Rice, Wheat, Pigeonpea, Sesame, Jowar, Chickpea, Kodo	1. Traditional agronomic practices 2. Lack of irrigation facilities 3. Undulated topography 4. Non adoption of scientific method of cultivation 5. Lack of knowledge among the farmers about the improved crop production techniques. 6. Severe pest and disease infestation 7. Severe weed infestation 8. Use of grain as seed, 9. Little or imbalance use of fertilizers, 10. Moisture stress during crop growth period	1. Soil and Water conservation 2. Seed replacement 3. Promotion of Integrated farming system 4. Diversification of crops 5. Promotion of high value Horticultural crops 6. Livestock up gradation 7. Women empowerment 8. Multi level employment generation 9. Wasteland Development

4	Chitrangi	Chitrangi	Ghoghara	Rice, Wheat, Pigeonpea, Sesame, Jowar, Chickpea, Kodo	1. Traditional agronomic practices 2. Lack of irrigation facilities 3. Undulated topography 4. Non adoption of scientific method of cultivation 5. Lack of knowledge among the farmers about the improved crop production techniques. 6. Severe pest and disease infestation 7. Severe weed infestation 8. Use of grain as seed, 9. Little or imbalance use of fertilizers, 10. Moisture stress during crop growth period	1. Soil and Water conservation 2. Seed replacement 3. Promotion of Integrated farming system 4. Diversification of crops 5. Promotion of high value Horticultural crops 6. Livestock up gradation 7. Women empowerment 8. Multi level employment generation 9. Wasteland Development
5	Chitrangi	Chitrangi	Kulawakwar	Rice, Wheat, Pigeonpea, Sesame, Mustard, Jowar, Chickpea, Kodo	1. Traditional agronomic practices 2. Lack of irrigation facilities 3. Undulated topography 4. Non adoption of scientific method of cultivation 5. Lack of knowledge among the farmers about the improved crop production techniques. 6. Severe pest and disease infestation 7. Severe weed infestation 8. Use of grain as seed, 9. Little or imbalance use of fertilizers, 10. Moisture stress during crop growth period	1. Soil and Water conservation 2. Seed replacement 3. Promotion of Integrated farming system 4. Diversification of crops 5. Promotion of high value Horticultural crops 6. Livestock up gradation 7. Women empowerment 8. Multi level employment generation 9. Wasteland Development
6	Singrauli	Waidhan	Parasdehi	Rice, Wheat, Pigeonpea, Sesame, Mustard, Vegetable, Chickpea,	11. Traditional agronomic practices 12. Lack of irrigation facilities 13. Undulated topography 14. Non adoption of scientific method of	10. Soil and Water conservation 11. Seed replacement 12. Promotion of Integrated

					cultivation 15. Lack of knowledge among the farmers about the improved crop production techniques. 16. Severe pest and disease infestation 17. Severe weed infestation 18. Use of grain as seed, 19. Little or imbalance use of fertilizers, 20. Moisture stress during crop growth period	farming system 13. Diversification of crops 14. Promotion of high value Horticultural crops 15. Livestock up gradation 16. Women empowerment 17. Multi level employment generation 18. Wasteland Development

Priority / Thrust areas

S. No.	Particulars
1.	Soil and Water conservation
2.	Seed replacement
3	Promotion of Integrated farming system
4	Diversification of crops
5	Promotion of high value Horticultural crops
6	Livestock up gradation
7	Women empowerment
8	Multi level employment generation
9	Wasteland Development

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
08	80	08	80

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
41	975	127	14740

Seed Production (Qtl.)	Planting material (Nos.)
100	5000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Integrated management of pod borer complex of pigeon pea	Pigeon pea	Heavy yield loss (up to 70%) in Pigeonpea due to severe infestation (50-75%) of pod borer complex in 25000 ha area.	To assess the impact of Organic component for Management of pod borer complex Pigeonpea		Modern Technology of Integrated management of pod borer complex in Pigeonpea		Sangosthi , DSV, Farmer field visit & Field day	Seed & Pesticides
2	Integrated Disease Management	Maize	Heavy yield loss (up to 40%) in Maize due to severe infestation (30-55%) of Banded Leaf and Sheath blight of Maize in 12000 ha area.	To assess the impact of Integrated Management Banded Leaf and Sheath blight in Maize		Biological management of Leaf & Sheath blight disease in Maize		Sangosthi , DSV, Farmer field visit & Field day	Fungicides
3	Integrated management of Fruit borer in Tomato	Tomato	Heavy yield loss (up to 50%) of tomato due to severe infestation of fruit borer in 500 ha area	Assessment of integrated management of fruit borer techniques in Tomato.		Innovative Technology for Integrated soil borne Disease management of Tomato		Sangosthi , DSV, Farmer field visit & Field day	Insecticides
4	Integrated	Wheat	Severe	Assessment of		Integrated			Fungicide

	Fusarium Head Blight management of Wheat		yield loss(up to 40%) in Wheat due to severe incidence (25-60 %) of FHB in 2250 ha area under irrigated condition	Integrated Management of Fusarium Head Blight in Wheat under Rice-Wheat Cropping system	management of Fusarium Head blight complex in Wheat			es
5	Disease management of Livestocks	Buffalo	Poor health and Poor productivity due to severe infestation of ticks, mites, lice and flies.	Assessment of ITK based poly herbal medication for management of Ecto parasite in buffalo	Role and Effect of Herbal medicated feed prepared through spices on milk yield, and Placenta retention in buffalo		Sangosthi , DSV, Farmer field visit & Animal health camp	Herbal Medicine
6	Poultry Management	Poultry	No preventive measures are being taken to control the dehydration in summer season	Assessment the impact of Electrolytes in backyard poultry during summer season	Care and management of Poultry in summer season	Innovative Technology for care and management of Poultry	Sangosthi , DSV, Farmer field visit & Animal health camp	Electrolyte
7	Feed & Fodder Management	Buffalo	Low milk yield due to poor feed management	To assess the effect of ITK based Polyherbal Mixture Supplementation on Milk Production and Postpartum Reproduction in Buffalo	Preparation and importance of balanced feed from Locally available animal feeding materials	Preparation and importance of balanced feed from Locally available animal feeding materials	Sangosthi , DSV, Farmer field visit & Animal health camp	Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom
8	Feed & Fodder Management	Cattle	Low milk yield due to poor feed management	To assess the effect of ITK based Polyherbal Mixture Supplementation on Milk Production and Postpartum Reproduction in Crossbred Cattle	Preparation and importance of balanced feed from Locally available	Preparation and importance of balanced feed from Locally	Sangosthi , DSV, Farmer field visit & Animal health camp	Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom

9				Demonstration of Improved production technology of JK-37 variety of Barnyard Millet		animal feeding materials	available animal feeding materials		m

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
IDM	02							01		02
IPM			01		01					02
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Disease Management	01							01
Feed Management	02	01						03
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop	Pigeon pea	
Title of on farm trial	To assess the impact of Organic component for Management of pod borer complex Pigeonpea	
Problem diagnosed	Heavy yield loss (up to 70%) in Pigeonpea due to severe infestation (50-75%) of pod borer complex in 25000 ha area.	
Farmers' Practices	Spray of Profenophos-50EC@ 2.5ml/lit. after severe infestation of pod borer	
Details of technologies selectedfor assessment	T ₁	Summer ploughing + Erecting the branched twigs @ 20 /ha + Neem oil @ 3000ppm + Two spray with spray of <i>Beauveria bassiana</i> @ 1000ml/ha + Fourth spray of Spinosad -45SC @ 125 ml/ ha at ETL
	T ₂	Summer ploughing Erecting the branched twigs @ 20 /ha + Neem oil @ 3000ppm + Second spray with 5% Neem Seed Kernel extract or 2 lit/ha + Third spray with HaNPV @ 300 LE/ha + Fourth spray of Spinosad -45SC @ 125 ml/ ha at ETL
Source of technology	AAU, Anand , Gujarat/ 2015	
Plot size	0.10 ha	
No. of farmers	10	
Total cost	35800.0	
Critical input	Seed @ 20kg/ ha Neem oil @ 1000ml, NSKE - 5% @ 2.0lit./ha <i>Beauveria bassiana</i> @ 1000ml/ha Spinosad @ 125ml/ha HaNPV- 300LE/ha	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Pod borer complex infestation(%), Reduction in pod borer Complex infestation(%), Yield (kg/ ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction

OFT- 02

Crop	Maize				
Title of on farm trial	To assess the impact of Integrated Management Banded Leaf and Sheath blight in Maize				
Problem diagnosed	Heavy yield loss (up to 40%) in Maize due to severe infestation (30-55%) of Banded Leaf and Sheath blight of Maize in 12000 ha area.				
Farmers' Practices	Hybrid variety (BIO 9782) + seed treatment with Mancozeb @ 2 g / kg seed				
Details of technologies selected for assessment	<table> <tr> <td>T₁</td><td>Use of resistant/tolerant hybrids +Seed treatment with <i>Trichoderma viridi</i> @20 g / kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval</td></tr> <tr> <td>T₂</td><td>Use of resistant/tolerant hybrids + Soil treatment with <i>Trichoderma viridi</i> @ 5kg in 50 kg enriched vermi compost + Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%)@ 3 g/ kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval</td></tr> </table>	T ₁	Use of resistant/tolerant hybrids +Seed treatment with <i>Trichoderma viridi</i> @20 g / kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval	T ₂	Use of resistant/tolerant hybrids + Soil treatment with <i>Trichoderma viridi</i> @ 5kg in 50 kg enriched vermi compost + Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%)@ 3 g/ kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval
T ₁	Use of resistant/tolerant hybrids +Seed treatment with <i>Trichoderma viridi</i> @20 g / kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval				
T ₂	Use of resistant/tolerant hybrids + Soil treatment with <i>Trichoderma viridi</i> @ 5kg in 50 kg enriched vermi compost + Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%)@ 3 g/ kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval				
Source of technology	IIMR/ NCIPM, New Delhi, 2014				
Plot size	0.1 ha				
No. of farmers	10				
Total cost	39500.0				
Critical input	Seed @ 15kg/ ha Mancozeb- 2g/ kg seed <i>Trichoderma viridi</i> @ 5000ml/ha Vermicompost @ 500kg/ ha Amistar top @ 500ml/ha Vitavax Power @ 2 g / kg seed				
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Disease incidence (%), Reduction in Disease incidence (%), Yield (kg/ ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction				

OFT-3

Crop	Tomato				
Title of on farm trial	Assessment of integrated management of fruit borer techniques in Tomato.				
Problem diagnosed	Heavy yield loss (up to 50%) of tomato due to severe infestation of fruit borer in 500 ha area				
Farmers' Practices	Spray of Chloropyrifos -20EC @ 1.25 lit./ha at severe infestation				
Details of technologies selected for assessment	<table> <tr> <td>T₁</td><td>Erection of bird perches@ 50/ ha + Spray of HaNPV@250LE at early occurrence of pod borer infestation + second spray of HaNPV@250LE a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL</td></tr> <tr> <td>T₂</td><td>Erection of bird perches@ 50/ ha + Spray of NSKE @5% at early occurrence of pod borer infestation + second spray of NSKE @ 5% a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL</td></tr> </table>	T ₁	Erection of bird perches@ 50/ ha + Spray of HaNPV@250LE at early occurrence of pod borer infestation + second spray of HaNPV@250LE a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL	T ₂	Erection of bird perches@ 50/ ha + Spray of NSKE @5% at early occurrence of pod borer infestation + second spray of NSKE @ 5% a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL
T ₁	Erection of bird perches@ 50/ ha + Spray of HaNPV@250LE at early occurrence of pod borer infestation + second spray of HaNPV@250LE a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL				
T ₂	Erection of bird perches@ 50/ ha + Spray of NSKE @5% at early occurrence of pod borer infestation + second spray of NSKE @ 5% a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL				
Source of technology	IIVR, Varanasi, 2013 and TNAU, Coimbatore, 2008				
Plot size	0.05 ha				
No. of farmers	10				
Total cost	41500.0				
Critical input	Chloropyrifos -20EC – @ 2.5lit./ha Ha NPV @ 250LE / ha NSKE -5% - 2000 ml/ ha Spinosad-45SC-@ 125 ml/ha				
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Fruit borer infestation, Reduction in fruit borer infestation, Yield (kg/ ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction				

OFT-4

Crop	Wheat	
Title of on farm trial	Assessment of Integrated Management of Fusarium Head Blight in Wheat under Rice-Wheat Cropping system	
Problem diagnosed	Severe yield loss(up to 40%) in Wheat due to severe incidence (25-60 %) of FHB in 2250 ha area under irrigated condition	
Farmers' Practices	GW-366/322 + seed treatment with Thiram @ 2g / kg seed	
Details of technologies selected for assessment	T ₁	Seed treatment with combination of Tebuconazole (Raxil 2DS @ 1.00g) + bio agent fungus <i>Trichoderma viride</i> @ 4 g / kg seed and one spray of Imidachloprid (Confidor 200 SL) @ 100 ml / ha on border rows at 25 DAS
	T ₂	Seed treatment with combination of Vitavax Power -75% WP (Carboxin -37.5% +Thiram -37.5%) @ 3g/ kg seed +Soil treatment with <i>Trichoderma viride</i> @ 5lit. / ha incubated with 50 kg vermicompost for 10 days + Foliar Spray Nativo - 75 WG (Tebuconazole- 50% Trifloxystrobin- 25 %WG) @ 300g/ha at 35DAS + Foliar spray of Propiconazole 200EC @ 500ml/ ha at 60DAS.
Source of technology	ICAR-IARI , RARS, Indore (M.P.), 2021	
Plot size	0.10	
No. of farmers	10	
Total cost	37500.0	
Critical input	Seed @ 100 kg/ ha Thiram @ 32g/kg seed Raxil-2DS- @ 02 g/ kg seed <i>Trichoderma viridi</i> @ 5000ml/ ha Vermicompost@ 500kg/ ha Confidor – @ 125 ml/ ha Nativo @ 300 ml/ ha Propiconazole @ 500ml/ ha	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Disease Incidence (%), No. of spike affected in ear, Reduction in DI(%), Yield (kg/ ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction	

OFT -5

1	Enterprise	Buffalo	
2	Title of on-farm trial	Assessment of ITK based poly herbal medication for management of Ecto parasite in buffalo.	
3	Problem diagnosed	Poor health and Poor productivity due to severe infestation of ticks, mites, lice and flies.	
4	Farming situation	-	
5	Production system and thematic area	Mixed Farming/ Disease management	
6	Farmers' practices	Application of Acaricidal drugs in recommended doses	
7	Details of technologies selected for assessment/refinement Treatments	T ₁	Application of Acaricidal drugs in recommended doses
		T ₂	NIF mediated poly herbal medication
8	Source of technology	ICAR-NDRI Karnal , Haryana/ 2019	
9	No. of animals	10	
10	No. of farmers	10	
11	Critical input	Neem leaves- 4kg monks pepper (<i>Vitex negundo</i>) – 1 kg Sprayer (1.0 lit. capacity)-10	
12	Cost of input	5000.0	

13	Total cost	15000.0
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Number of Ecto parasites on a specific part (udder) of body at certain area before and 28 days after treatment, Milk Production (lit.) before and after 28 days of treatment , B: C ratio

OFT-6

1	Enterprise	Poultry Production
2	Title of on-farm trial	Assessment the impact of Electrolytes in backyard poultry during summer season
3	Problem diagnosed	No preventive measures are being taken to control the dehydration in summer season.
4	Farming situation	-
5	Production system and thematic area	Mixed Farming / Poultry Production
6	Farmers' practices	Water without electrolytes
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Water without electrolytes
		T ₂ 1 gram per day per bird of electrolytes (Electrobest) to be given
8	Source of technology	CSWRI, Avika Nagar- Rajsthan , 2010
9	No. of Birds	1000
10	No. of farmers	10
11	Critical input	Electrobest- 30 kg
12	Cost of input	5000.0
13	Total cost	18500.0
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Body weight at 40 days of age, Income- expenditure during study(3 months) , B:C ratio , Farmers' Reaction and Feedback.

OFT-7

1	Enterprise	Cattle/ Dairy
2	Title of on-farm trial	To assess the effect of ITK based Polyherbal Mixture Supplementation on Milk Production and Postpartum Reproduction in Crossbred Cattle
3	Problem diagnosed	Low milk yield due to poor feed management
4	Farming situation	-
5	Production system and thematic area	Mixed Farming / Feed Management
6	Farmers' practices	Feed without poly herbal mixture
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Feed without poly herbal mixture
		T ₂ Supplementation ployherbal mixture {mixing 25 g each of Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom} from the day of calving till day 10 of postpartum with normal feed.
8	Source of technology	ICAR-NDRI Karnal , Haryana/ 2019
9	No. of Animals	10
10	No. of farmers	10

11	Critical input	Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom – 2.5 kg each
12	Cost of input	18500.0
13	Total cost	28500.0
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield (lit./ day/ animals),retention of foetal membrane (no.), time required for expulsion placental(hr.) , B:C ratio , Farmers' Reaction and Feedback (The data was recorded for 2 months duration.).

OFT-8

1	Enterprise	Buffalo/ Dairy	
2	Title of on-farm trial	To assess the effect of ITK based Polyherbal Mixture Supplementation on Milk Production and Postpartum Reproduction in Murrah Buffaloes	
3	Problem diagnosed	Low milk yield due to poor feed management	
4	Farming situation	-	
5	Production system and thematic area	Mixed Farming / Feed Management	
6	Farmers' practices	Feed without poly herbal mixture	
7	Details of technologies selected for assessment/refinement Treatments	T ₁	Feed without poly herbal mixture
		T ₂	Supplementation ployherbal mixture {mixing 25 g each of Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom} from the day of calving till day 10 of postpartum with normal feed.
8	Source of technology	ICAR-NDRI Karnal , Haryana/ 2019	
9	No. of Animals	10	
10	No. of farmers	10	
11	Critical input	Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom – 2.5 kg each	
12	Cost of input	18500.0	
13	Total cost	28500.0	
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield (lit./ day/ animals),retention of foetal membrane (no.), time required for expulsion placental(hr.) , B:C ratio , Farmers' Reaction and Feedback (The data was recorded for 2 months duration.).	

Detailed Information about OFT: 01

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	To assess the impact of Organic component for Management of pod borer complex Pigeonpea
Year/Season:	2023/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy yield loss (up to 70%) in Pigeonpea due to severe infestation (50-75%) of pod borer complex in 25000 ha area.
Thematic area:	Mixed Farming / Integrated Pest Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Profenophos-50EC@ 2.5ml/lit. after severe infestation of pod borer
T2 –Recommended Practice-	Summer ploughing + Erecting the branched twigs @ 20 /ha + Neem oil @ 3000ppm + Two spray with spray of <i>Beauveria bassiana</i> @ 1000ml/ha + Fourth spray of Spinosad -45SC @ 125 ml/ ha at ETL
T3- Recommended Practice-	Summer ploughing Erecting the branched twigs @ 20 /ha + Neem oil @ 3000ppm + Second spray with 5% Neem Seed Kernel extract or 2 lit/ha + Third spray with HaNPV @ 300 LE/ha + Fourth spray of Spinosad -45SC @ 125 ml/ ha at ETL
Date of sowing:	05-15 July,2023
Date of harvesting:	15 February,2024
Source of technology:	AAU, Anand , Gujarat/ 2015
Characteristics of technology:	<i>Beauveria bassiana</i> act as mycoparasite on lepidopteron insects and neem oil , HaNPV and Spinosad as bio insecticide on different insects and effectively reduced pod borer complex population up to 90 per cent.
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 02

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	To assess the impact of Integrated Management Banded Leaf and Sheath blight in Maize
Year/Season:	2023/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy yield loss (up to 40%) in Maize due to severe infestation (30-55%) of Banded Leaf and Sheath blight of Maize in 12000 ha area.

Thematic area:	Mixed Farming / Integrated Pest Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hybrid variety (BIO 9782) + seed treatment with Mancozeb @ 2 g / kg seed
T2 –Recommended Practice-	Use of resistant/tolerant hybrids +Seed treatment with <i>Trichoderma viridi</i> @20 g / kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval
T3- Recommended Practice-	Use of resistant/tolerant hybrids + Soil treatment with <i>Trichoderma viridi</i> @ 5kg in 50 kg enriched vermi compost + Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%)@ 3 g/ kg seed + Stripping of lower leaves along with their sheath + Foliar spray Azoxystrobin 18.2% + Difenconazole 11.4% w/w SC (Amistar Top 325 SC) 1ml/L of water at 50 DAS or immediately after symptoms appearance. If needed, repeat the spray at 15 days interval
Date of sowing:	05-15 July,2023
Date of harvesting:	25 September,2023
Source of technology:	IIMR/ NCIPM, New Delhi, 2014
Characteristics of technology:	Technology is effectively managed Banded Leaf and Sheath Blight up to 90 per cent and enhanced yield up to 40 percent .
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 03

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of integrated management of fruit borer techniques in Tomato.
Year/Season:	2023-24/ Pre Rabi
Farming situation:	Irrigated
Problem diagnosis:	Heavy yield loss (up to 50%) of tomato due to severe infestation of fruit borer in 500 ha area
Thematic area:	Mixed Farming / Integrated Pest Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Chloropyriphos -20EC @ 1.25 lit./ha at severe infestation
T2 –Recommended Practice-	Erection of bird perches@ 50/ ha + Spray of HaNPV@250LE

	at early occurrence of pod borer infestation + second spray of HaNPV@250LE a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL
T3- Recommended Practice-	Erection of bird perches@ 50/ ha + Spray of NSKE @5% at early occurrence of pod borer infestation + second spray of NSKE @ 5% a15 days after first spray + Spray of Spinosad -45SC @ 0.4ml/ lit at ETL
Date of sowing:	15 -20 August,2023
Date of harvesting:	15 -20 January, 2024
Source of technology:	IIVR, Varanasi, 2013 and TNAU, Coimbatore, 2008
Characteristics of technology:	HaNPV , NSKE and spinoasd act as bio pesticides on lepidopteron insects and effectively reduced pod borer population
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 04

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Integrated Management of Fusarium Head Blight in Wheat under Rice-Wheat Cropping system
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Severe yield loss(up to 40%) in Wheat due to severe incidence (25-60 %) of FHB in 2250 ha area under irrigated condition
Thematic area:	Mixed Farming / Integrated Disease Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	GW-366/322 + seed treatment with Thiram @ 2g / kg seed
T2 –Recommended Practice-	Seed treatment with combination of Tebuconazole (Raxil 2DS @ 1.00g) + bio agent fungus <i>Trichoderma viride</i> @ 4 g / kg seed + Foliar spray of Propiconazole 200EC @ 500ml/ ha at Panicle initiation
T3- Recommended Practice-	Seed treatment with combination of Vitavax Power -75% WP (Carboxin -37.5% +Thiram -37.5%) @ 3g/ kg seed +Soil treatment with <i>Trichoderma viride</i> @ 5lit. / ha incubated with 50 kg vermicompost for 10 days + Foliar Spray Nativo -75 WG (Tebuconazole- 50% Trifloxystrobin- 25 %WG) @ 300g/ha at 35DAS + Foliar spray of Propiconazole 200EC @ 500ml/ ha at 75 DAS.
Date of sowing:	Last week of November, 2023
Date of harvesting:	Last week of March,2024
Source of technology:	ICAR-IARI , RARS, Indore (M.P.), 2021
Characteristics of technology:	Integrated management modules will be highly effective against FHB

	and reduces up to 90 % Disease incidence and increases up to 25 % yield of Wheat
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 05

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of ITK based poly herbal medication for management of Ecto parasite in buffalo
Year/Season:	2023
Farming situation:	
Problem diagnosis:	Poor health and Poor productivity due to severe infestation of ticks, mites, lice and flies.
Thematic area:	Mixed Farming/ Disease management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Acaricidal drugs in recommended doses
T2 –Recommended Practice-	NIF mediated poly herbal medication
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-NDRI Karnal , Haryana/ 2019
Characteristics of technology:	NIF mediated poly herbal medication is highly effective to reduces up to more than 75 % Ecto parasite population and increases milk yield
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 06

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment the impact of Electrolytes in backyard poultry during summer season
Year/Season:	May, 2023
Farming situation:	-
Problem diagnosis:	No preventive measures are being taken to control the dehydration in summer season.
Thematic area:	Mixed Farming / Poultry Production
No of trials:	10

No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Water without electrolytes
T2 –Recommended Practice-	1 gram per day per bird of electrolytes (Electrobest) to be given.
T3- Recommended Practice-	
Date of sowing:	April, 2023
Date of harvesting:	July, 2023
Source of technology:	CSWRI, Avika Nagar- Rajasthan , 2010
Characteristics of technology:	electrolytes (Electrobest) reduces mortality due to dehydration during summer season
Name of Crop/Enterprises:	Poultry Production
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 07

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	To assess the effect of ITK based Polyherbal Mixture Supplementation on Milk Production and Postpartum Reproduction in Crossbred Cattle
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	Low milk yield due to poor feed management
Thematic area:	Mixed Farming / Feed Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Feed without poly herbal mixture
T2 –Recommended Practice-	Supplementation ployherbal mixture {mixing 25 g each of Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom} from the day of calving till day 10 of postpartum with normal feed.
T3- Recommended Practice-	
Date of sowing:	2023
Date of harvesting:	2023
Source of technology:	ICAR-NDRI Karnal , Haryana/ 2019
Characteristics of technology:	Supplementation ployherbal mixture is increased milk yield upto 25% with reduces time post partrum reproduction
Name of Crop/Enterprises:	Cattle/ Dairy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 08

Name of Discipline (Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	To assess the effect of ITK based Polyherbal Mixture Supplementation on Milk Production and Postpartum Reproduction in Buffalo
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	Low milk yield due to poor feed management
Thematic area:	Mixed Farming / Feed Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Feed without poly herbal mixture
T2 –Recommended Practice-	Supplementation ployherbal mixture {mixing 25 g each of Saunf+Ajwain + Methi + Dry Zinger(Soth)+ Sowa + Cardamom} from the day of calving till day 10 of postpartum with normal feed.
T3- Recommended Practice-	
Date of sowing:	2023
Date of harvesting:	2023
Source of technology:	ICAR-NDRI Karnal , Haryana/ 2019
Characteristics of technology:	Supplementation ployherbal mixture is increased milk yield upto 25% with reduces time post partrum reproduction
Name of Crop/Enterprises:	Buffalo/ Dairy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT: Nil

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: Nil

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	
No. of farmers/farm women involved	
Type of OFT (Assessment/Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Ginger	IDM	Suprabha + Rhizome treatment during storage & pre sowing stage with Ridomil MZ-68 WG @ 0.2% + Sowing on Ridge + Soil treatment with <i>Trichoderma viridi</i> (@ 5 kg / ha)enriched poultry refuse @ 100qt/ ha + 2-3 drenching with Ridomil MZ-68 WG @ 0.2 5 at early onset of disease at 15 days interval	Seed @ 1600kg/ha , Ridomil MZ-68 WG @ 0.2%, <i>Trichoderma viridi</i> (@ 5 kg/ha	Kharif, 2023	1.0	10	Disease Incidence (%), Reduction in Disease incidence (%), No. of Finger/ plant , Weight of Finger(g), Yield (qt./ha), Net return (Rs./ha), B:C ration, Farmers Reaction and Feedback
2	Kodo	ICM	JK-137	Seeds of Kodo Millets	Kharif, 2023	2.5	10	Plant height (cm) , No. of tillers/ hill, yield (qt./ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction
3	Onion	IPM	One foliar spray of Imidachloprid + Fipronil- 80WG @ 150 g/ ha at ETL (30 thrips/ plant) at 30 DAT + one spray of Neem oil @ 3000 ppm at 45DAT and one spray of Imidachloprid - 200SL @ 625ml/ ha 60 DAT	Imidachloprid + Fipronil - 80WG @150g/ha, Neem Oil @1000ml/ha, Imidachloprid-200SL @ 625 ml/ha	Rabi, 2023	2.0	10	Thrips infestation(%), Reduction in insect infestation(%), Bulb diameter(cm) and Yield Yield (kg/ ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction
4	Chickpea	IPM	Bird perches @ 50/ ha + Two	Tobacco leaf @ 5kg, Garlic	Rabi, 2023	2.0	10	Plant Height(cm),

			spray of Agneyastra @ 10ml/lit. of water at 45 and 75DAS (Prepared by Cow urine@ 10 lit., Neem leaf Pulp@ 5kg, Green Chilli @ 500g Tobacco leaf @1kg, and Garlic 500g put in earthenpot for 24 hours)	@ 2.5 kg and Green Chilli @ 2.5 kg				Pod/ plant, No. of Pod affected/ plant , No. of larvae / meter row length, Yield (kg/ ha), Net Return (Rs./ ha), B: C Ratio, Feedback and Farmer's reaction

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	September, February	100
2	Farmers Training	08	May to February	200
3	Media coverage	05	May to February	Mass
4	Training for extension functionaries	02	June & October	50

Details of FLD on Enterprises

Farm Implements: Nil

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Cattle	Cross bred	10	10	Mineral mixture @ 30 kg + Albendazole-100g	Milk yield (Lit./ Cattle/ Day), Net return(Rs./ha), B:C ratio, Farmers reaction and Farmers feedback	Milk yield (Lit./ Cattle/ Day)	Milk yield (Lit./ Cattle/ Day)
Goat	Jamunapari	10	20	Piprazine 1200 ml	Body Weight (kg/ 6 month), % Increase in body weight , Net return(Rs./bird), B: C ratio, Farmers reaction and feedback	Body Weight (kg/ 6 month), % Increase in body weight	Body Weight (kg/ 6 month), % Increase in body weight
Poultry	Kadaknath	10	200	Chicks of	Egg productivity / bird/	Egg productivity /	Egg productivity /

				Kadaknath	year, Mortality (%) up to 6 month, Body weight (g)/Bird upto six month, Market price (Rs./ kg) , Net return(Rs./bird), B: C ratio, Farmers reaction and feedback	bird/ year, Mortality (%) up to 6 month, Body weight (g)/Bird upto six month	bird/ year, Mortality (%) up to 6 month, Body weight (g)/Bird upto six month
Cattle	Cross bred	10	10	Azolla feeding as green fodder	10 Aolla pit	Milk production (lit. / Cattle/ day)	Milk production (lit. / Cattle/ day)

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises :Nil

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeon pea	ICM	Improved Production Technology of BDN -716 variety of Pigeonpea	Seed -400 kg, Vitavax Power(Carboxin +Thiram) 1.2 kg, <i>Trichoderma viridi</i> @ 100lit., Rhizobium & PSB @ 100-100 packet each , Emamectin benzoate 5SG@ 5.0 lit. and Quizolofop-P-Ethyl -5 EC @ 20.0 lit	Kharif, 2023	20.0	50	Pod / plant, yield, B:C ratio, Net income(Rs./ha), B:C ratio, Farmers reaction and feed back
2	Field Pea	ICM	Improved Production Technology of IPFD-12-02 variety of Field pea under Rice-fieldpea Cropping system	Seed (@ 40 kg /Demo , Carboxin(Vitavax) @ 100 g/ Demo, Rhizobium & PSB@ 200-200 g / Demo, T. v. @ 2kg/ Demo, <i>Beauveria bassiana</i> @ 200	Rabi, 2023	20	50	Pods / plant, yield, B:C ratio, Net income(Rs./ha), B:C ratio, Farmers reaction and feed back

				ml / demo.				
03	Mustard	ICM	Improved Production Technology of RH-0761 Variety of Mustard under Rainfed	Seed (@ 02 kg /Demo , Ridomile Gold @ 12 g/ Demo, Bentonite Sulphur @ 8 kg./ ha , PSB@ 200 g / Demo, <i>T. v.</i> @ 2kg/ Demo and NSKE @ 2 Kg / demo	Rabi, 2023	20	50	Siliqua / plant, yield, B:C ratio, Net income(Rs./ha), B:C ratio, Farmers reaction and feed back

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	February, 2024	150
2	Farmers Training	06	June, October, December & January	3000
3	Media coverage	06	June, October, December & January	Mass
4	Training for extension functionaries	02	June & October	50

[illegible]

[illegible]

[illegible]

[illegible]

Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management	1	2	25	0	25	5	0	5	30
Poultry Management	2	4	50	0	50	10	0	10	60
Disease Management	2	4	45	0	45	15	0	15	55
Feed management	5	10	110	0	110	35	5	40	145
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest	02	04	30	05	35	15	05	20	55

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
8-9 February,20 23	FW & F	Innovative disease management Techniques in Summer Vegetable crops	2	20	0	20	5	5	10	25
11-12 March, 2023	FW & F	Innovative Technology for Management of store grain pest	2	15	5	20	5	5	10	30
16-17 May, 2023	FW & F	Modern Technology of Integrated management of pod borer complex in Pigeonpea	2	20	0	20	10	0	10	25
5-6 June, 2023	FW & F	Innovative technology for integrated management of MYMV and Web blight in Blackgram & Greengram	2	20	0	20	10	0	10	25
19 July, 2023	FW & F	Role and Importance & preparation of Biopesticide through locally available botanicals for management of Insect	2	25	0	25	5	0	5	30
1-2 August, 2023	FW & F	Innovative Technology for Integrated soil borne Disease management of Tomato	2	25	0	25	5	0	5	30
9-10October, 2023	FW & F	Preparation, Application & Importance of Agniyastra, Neemastra, Bramhasatra & Dasparni ark for management	2	25	0	25	5	0	5	30

[illegible]

Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
14-15 Sept., 2023	FW&F	Vermicompost production technology	2	20	0	20	5	5	10	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
07 October, 2023	FW&F	Improved Production technology of Mustard	2	45	0	45	5	0	5	50
16 October, 2023	FW&F	Improved Production technology of Field Pea	2	45	0	45	5	0	5	50
06-07July, 2023	FW&F	Improved Production technology of Pigeonpea	2	35	0	35	15	0	15	50
Horticulture										
Livestock production										
04-05 , January, 2023	FW&F	Role and Effect of Herbal medicated feed prepared through spices on milk yield, and Placenta retention in cattle	2	15	0	15	10	5	15	30
18-19 April, 2023	FW&F	Care and management of Poultry in summer season	2	25	0	25	5	0	5	30
18-19 May, 2023	FW&F	Role and Effect of Herbal medicated feed	2	20	0	20	10	0	10	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		prepared through spices on milk yield, and Placenta retention in buffalo								
25-26 May, 2023	FW&F	Year around green fodder availability and Their importance	2	20	0	20	10	0	10	25
04-05 July, 2023	FW&F	Care and Management of Goat in rainy season	2	25	0	25	5	0	5	30
20-21 July, 2023	FW&F	Effect and role of Mineral mixture and parasite management on milk yield of cattle	2	25	0	25	5	0	5	30
28-29 August, 2023	FW&F	Care and management of Newly born calf	2	25	0	25	5	0	5	30
13-14 September, 2023	FW&F	Care and management of Livestock and poultry to cold	2	25	0	25	5	0	5	30
13-14, Nov., 2023	FW&F	Care and Management of Livestock from cold wave	2	25	0	25	5	0	5	30
12-13 Dec., 2023	FW&F	Identification of calcium deficiency and their management in cattle	2	25	0	25	5	0	5	30
Home Science										
Plant Protection										
20-21,January, 2023	FW&F	Novel Management practices of Aphid Management	2		15	0	15	10	5	15

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		in Mustard								
12-13 April, 2023	FW&F	Modern Technology of Integrated management of Rhizome rot in Ginger	2		25	0	25	5	0	5
10-11 May, 2023	FW&F	Modern Technology of Integrated management of Disease in Pigeonpea	2	20	0	20	10	0	10	25
8-9 June , 2023	FW&F	Biological management of Leaf & Sheath blight disease in Maize	2	20	0	20	10	0	10	25
22-23 June, 2023	FW&F	Novel technology for management of False smut , BLB & LSB in Rice	2	25	0	25	5	0	5	30
10-11 July, 2023	FW&F	Innovative technology for Biological Management of Soil borne diseases in Kharif crops	2	25	0	25	5	0	5	30
27-28 July, 2023	FW&F	Importance , Preparation and application of Jeevamrit and Ghan jeevamrit	2	25	0	25	5	0	5	30
25-26 August, 2023	FW&F	Innovative Technology for Integrated Fruit borer management in Tomato	2	25	0	25	5	0	5	30
5-6 September, 2023	FW&F	Modern Integrated Management technology Disease Management in Rabi Pulse crop	2	25	0	25	5	0	5	30
03-04, Nov., 2023	FW&F	Economic and Eco friendly management techniques for pod borer in Chickpea	2	25	0	25	5	0	5	30
2-3 Dec..	FW&F	Integrated	2	25	0	25	5	0	5	30

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration <i>n</i>	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1													
2													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	03	100	0	100	10	0	10	110	0	110
Kisan Mela	01	200	20	250	25	05	30	225	50	275
Kisan Ghosthi	05	150	10	160	20	0	20	170	10	180
Exhibition	01	200	20	250	25	05	30	225	50	275
Film Show	0	0	0	0	0	0	0	0	0	0
Method Demonstrations	03	200	0	200	05	0	05	205	0	205
Farmers Seminar	0	0	0	0	0	0	0	0	0	0
Workshop	01	50	0	50	10	0	10	60	0	60
Group meetings	0	0	0	0	0	0	0	0	0	0
Lectures delivered as resource persons	0	0	0	0	0	0	0	0	0	0
Newspaper coverage	12	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	0	0	0	0	0	0	0	0	0	0
TV talks	0	0	0	0	0	0	0	0	0	0
Popular articles	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	02	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Advisory Services	52	12000	0	12000	50	0	50	12050	0	12050
Scientific visit to farmers field	12	150	75	225	0	0	0	150	75	225
Farmers visit to KVK	15	500	50	550	0	0	0	500	50	550
Diagnostic visits	As per need									
Exposure visits	03	150	75	225	0	0	0	150	75	225
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0
Soil health Camp	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	02	100	0	100	10	0	10	110	0	110
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	01	100	0	100	10	0	10	110	0	110
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	10	300	100	400	25	5	30	325	105	340
Others (pl. specify)										
Total	127	14200	350	14550	190	15	205	14390	365	14740

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	MP 3382	50.0
	0	0	0
	0	0	0
OILSEEDS	0	0	0
	0	0	0
PULSES	Pigeonpea	BDN716	50.0
	0	0	0
VEGETABLES	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
FLOWER CROPS	0	0	0
	0	0	0
OTHERS (Specify)	0	0	0

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	0	0	0
	0	0	0
SPICES	0	0	0
	0	0	0
	0	0	0
VEGETABLES	Brinjal	BR-14	1000
	Tomato	Abhilash-1	1000
	Chilli	Kashi Surkh	1000
	Cauliflower	Coloured	1000
	Cabbage	Chinese & red Cabbage	1000
FOREST SPECIES	0	0	0
	0	0	0
	0	0	0
ORNAMENTAL CROPS	0	0	0
	0	0	0
PLANTATION CROPS	0	0	0
	0	0	0
	0	0	0
Others (specify)	0	0	0

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	<i>T. viride</i>		100
2	<i>Rhizobium Spp</i>	<i>Rhizobium Spp</i>		500
3				
BIOFERTILIZERS				
1	Vermicompost	<i>Jai Kisan</i>		500
2	NADEP			500
3				
BIO PESTICIDES				

1	Dasparni arkl			100lit.
2	Pesticides	NSKE		50
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	0	0	0	0
	0	0	0	0
SHEEP AND GOAT	0	0	0	0
	0	0	0	0
POULTRY	0	0	0	0
FISHERIES	0	0	0	0
Others (Specify)	0	0	0	0

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
July, 2023	Quarterly	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	0	0	0
2	0	0	0
3	0	0	0

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, Personal contact, Line department & Telephonic call & Survey
2	Rural Youth	PRA, Personal contact, Line department & Telephonic call & Survey
3	In-service personnel	PRA, Personal contact, Line department & Telephonic call & Survey
4	methodology for identifying OFTs/FLDs	PRA, Personal contact, Line department & Telephonic call & Survey
5	Matrix ranking	PRA, Personal contact, Line department & Telephonic call & Survey

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Shivpurwa	Chitrangi	90
2	Ghoghra	Chitrangi	88
3	Chitawal	Chitrangi	95
4	Chitarwai kalan	Waidhan	30
5	Parasdehi	Waidhan	30
6	Baheri kalan	Waidhan	40
7	Kulakwar	Chitrangi	140
8			

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted: 05

S.No.	Name of Village	Block	Total Geographical area (ha)	Population	No. of house hold
01	Parasdehi	Waidhan	702.7	730	276
02	Kumhiya	Waidhan	630.7	1669	343
03	Baheri kalan	Waidhan	562.6	1294	250
04	ChitarwaiKalan	Waidhan	714.9	2805	647
05	Ghoghra	Chitrangi	1161.5	3698	826
06	Shivpurwa	Chitrangi	334.6	1721	303
07	Chitawal Kalan	Chitrangi	346.6	1127	302
08	Kulakwar	Chitrangi	517.8	826	195

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:..... Yet to be established

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	245	245	05	0.0
Water Samples				
Total	245	245	05	0.0

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Dept. of Veterinary	Technical

Dept. of Agriculture	Technical
Dept. of Sericulture	Technical
Dept. of Agriculture Engineering	Technical
Dept. of Fisheries'	Technical
Dept. of Horticulture	Technical
ATMA	Technical
Dept. of Mahila evam Bal Vikas	Technical

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district **Yes**

Name of Programme	Nature of linkage
ATMA	Technical
NFSM	Technical

Give details of programmers implemented under National Horticultural Mission : Nil

Name of Programme	Nature of linkage
NHM	Technical

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes : Natural farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Awareness Program	245
February	Awareness & Training	241
March	Awareness Program	295
April	Awareness Program	100
May	Awareness Program	100
June	Awareness Program	100
July	Awareness Program	100
August	Awareness & Training	140
September	Awareness & Training	100
October	Awareness & Training	100
November	Awareness & Training	100
December	Awareness & Training	100

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 2000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Green Gram	Kharif, 2023	TJM-3, HUM1, PDM11 TM37		Plot size 5X3 meter on Raised Bed
Black Gram	Kharif, 2023	PU-19, PU-31, PU30, JU-86, T-9, IPU-02-43		
PIgeonpea	Kharif, 2023	Rajeev lochan, Phule-12, TJT-501 and BDN 716		
Rice	Kharif, 2023	Dev Bhog, Vishnu Bhog, Kala namak, JR-503, JRB-1		
Kodo	Kharif, 2023	JK-137, RK390-25, JK-76, J.K.41		
Little Millet	Kharif, 2023	JK-4,OLM 203		
Finger Millet	Kharif, 2023	GPU 67, VL 376		
Foxtail Millet	Kharif, 2023	SIA3156, DHFt 109-3		
Barnyard Millet	Kharif, 2023	VL 207, DHBM 93-3		
Poso Millet	Kharif, 2023	TNAU 145		
Brown Top Millet	Kharif, 2023	GPUBT-9		Plot size 5X3 meter on Raised Bed
Sesame	Kharif, 2023	TKG-308, JT-11, JT-12, JTS-8		
Wheat	Rabi, 2023-24	H.D-4728,H.I-4731, H.I-1500, H.I-727, H.I-8799,H.I- 1531, MP-4010, G.W- 366, HI-1540, HI-8663, HD-2932, HI-8747		
Barley	Rabi, 2023-24	DWRB-137,Karnal-Black,Local		
Gram	Rabi, 2023-24	JG-16,JG-322, JG-12, JG-130, JG-63, JG-36, JG-315, JKG-1, Kala Chana,JG-14,		
Mustard	Rabi, 2023-24	Pusa bold, Rohini, Pusa Kranti, JM-3,		

		RVM-1, RVM-2, Varuna			

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicopost		50	Yet to come
Natural farming		25	Yet to come
High Density Orchard		300	Yet to come
Meadow Orchard		300	Yet to come
Seed Production		40000	Yet to come
AWS		50	

[illegible]

1.3 Total land with KVK (in ha): 1.95

S. No.	Item	Area (ha)
1	Under Buildings	0.05
2	Under Demonstration Units	0.5
3	Under Crops	1.0
4	Orchard/Agro-forestry	0.4
5	Others (specify)	-
Total		1.95

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	12/07/2012	497.17	1112000	-	-	-
2	Farmers Hostel	ICAR	05/07/2012	305	1300000	-	-	-
3	Staff Quarters (6)	ICAR	20/06/2011	416	1758000	-	-	-
4	Demonstration Units (2)	KVK	-	-	10000	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	MPWSRP	31/03/2006	50x68x1.5	340000	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown (Seed Hub)	ICAR	2019	139.3	5000000	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	-	-	-	-
Motor Cycle 1	2007	45000	35410	Running
Bolero (Jeep)	2012	650000	202945	Running
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2012	245000	Serviceable
Xerox Machine	2011	80000	Unserviceable
Video Camera	2016	21900	Serviceable
Computer, Laser Printer	2008	125000	Serviceable
UPS 600 VA	2005	4750	Unserviceable
Stabilizer	2009	950	Unserviceable
Inverter 600 VA (2)	2014	4250	Serviceable
Inverter Battery (2)	2014	15525	Serviceable

1.5 (A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	21/06/2023
2	11/10/2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Crop production + Animal husbandry + Horticulture + Poultry + Fisheries
2	AES – 2	Crop production + Animal husbandry + Horticulture + Poultry + Fisheries
3	AES – 3	Crop production + Animal husbandry + Horticulture + Poultry + Fisheries

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 (Undulating topography with red soil – <i>Ranker</i>)	Eroded land, less ground water, very low soil depth, poor irrigation potential, crop production + Animal Husbandry + Horticulture. Major Crops – Groundnut, blackgram, soybean, wheat, pea, mustard, ginger, turmeric, colocasia, papaya and guava
2	AES – 2 (Plain to undulating black soil - <i>Kabar / Mar</i>)	Deep to shallow depth, sufficient ground water for irrigation potential for dug well and tube well, crop production + Animal Husbandry + Horticulture. Major Crops – Gram, black gram, soybean, wheat, mustard, coriander, mango, citrus, brinjal, tomato and onion
3	AES – 3 (Plain to undulating sandy loam - <i>Padua</i>)	Mostly sandy and sandy clay loam, good to poor ground water, topography generally varies from plain to undulating condition. Major Crops – Soybean, blackgram, sesame, wheat, mustard, brinjal, tomato, onion, coriander, mango, guava and citrus.

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Undulating topography with red soil – *Ranker*)

Strength	Weakness	Opportunities	Threats
1. Suitable for root & tuber crops cultivation as groundnut, zinger, turmeric, potato, etc. 2. Suitable for low water requirements rainfed crop cultivations like blackgram, soybean and sesame. 3. Suitable for cultivation of arid & semi arid fruits like pomegranate, ber, guava, jackfruit, custard apple. 4. Good drainage facilitated to conservation of soil from erosion due to less holding water and limited rain.	1. Eroded land is not suitable for many crops cultivation. 2. Less ground water limited irrigations and crop production. 3. Very low soil depth is not suitable for deep rooted plants & crops. 4. Poor irrigation potential limited the crop numbers for cultivation.	1. Opportunity for increasing of tuber and root crops cultivation. 2. Opportunity for including more less water requirements crops in crop planning and rotation to increase the cropping intensity. 3. Opportunity for development of gardens of arid & semi arid fruits with vegetable, forest and fodder crops. 4. Water harvesting and land leveling are opportunity for increasing the waste land into cultivable land.	1. Continuous growing of roots and tuber crop leading to weeds, diseases, insects and pests. 2. Continuous growing of old, local and susceptible crop varieties are prone to diseases, insects and pests. 3. Indiscriminate use of insecticides, pesticides and weedicides.

AES-2 (Plain to undulating black soil - *Kabar / Mar*)

Strength	Weakness	Opportunities	Threats
1. Suitable for wheat, mustard and chickpea. 2. Suitable for low water requirements rainfed crop cultivations like blackgram, soybean and sesame. 3. Suitable for cultivation of arid & semi arid fruits like mango, citrus, pomegranate, ber, guava, jackfruit, custard apple. 4. Poor drainage facilitated to water logging during rain.	1. Deep to shallow depth is not suitable for root & tuber crops cultivation as groundnut, zinger, turmeric, potato, etc. 2. Sufficient ground water for irrigation potential but difficult for digging of dug well and tube well due to stone layer.	1. Opportunity for increasing of tuber and root crops cultivation. 2. Opportunity for including more less water requirements crops in crop planning and rotation to increase the cropping intensity. 3. Opportunity for development of gardens of arid & semi arid fruits with vegetable, forest and fodder crops. 4. Water harvesting and land leveling are opportunity for increasing the waste land into cultivable land.	1. Continuous growing of roots and tuber crop leading to weeds, diseases, insects and pests. 2. Continuous growing of old, local and susceptible crop varieties are prone to diseases, insects and pests. 3. Indiscriminate use of insecticides, pesticides and weedicides.

AES-3 (Plain to undulating sandy loam - *Padua*)

Strength	Weakness	Opportunities	Threats
1. Suitable for root & tuber crops cultivation as groundnut, zinger, turmeric, potato, etc. 2. Suitable for low water requirements rainfed crop cultivations like blackgram, soybean and sesame. 3. Suitable for cultivation of arid & semi arid fruits like pomegranate, ber, guava, jackfruit, custard apple. 4. Good drainage facilitated to conservation of soil from erosion due to less holding water and limited rain.	1. Mostly sandy and sandy clay loam is not suitable for many crops cultivation. 2. Good to poor ground water limited irrigations and crop production. 3. Topography generally varies from plain to undulating condition is not suitable for deep rooted plants & crops. 4. Poor irrigation potential limited the crop numbers for cultivation.	1. Opportunity for increasing of tuber and root crops cultivation. 2. Opportunity for including more less water requirements crops in crop planning and rotation to increase the cropping intensity. 3. Opportunity for development of gardens of arid & semi arid fruits with vegetable, forest and fodder crops. 4. Water harvesting and land leveling are opportunity for increasing the waste land into cultivable land.	1. Continuous growing of roots and tuber crop leading to weeds, diseases, insects and pests. 2. Continuous growing of old, local and susceptible crop varieties are prone to diseases, insects and pests. 3. Indiscriminate use of insecticides, pesticides and weedicides.

Land Use Pattern of district Tikamgarh

Particulars	Area "000 ha"
Total Geographical area	372.25
Forest	25.31
Waste Land	36.60
Other than cultivated area	-
Cultivable waste and alkaline land	-
Pastures	29.3
Bushes	-
Current Fallow	19.39
Other Fallow	-
Agricultural Land	234.44
Area Sown	427.15
Kharif	212.10
Rabi	215.05
Zaid	-
Cropping Intensity	182

Irrigated Area with Different Sources included new district Niwari:

S. No.	Description	Area (ha)
1	Canal	17140
2	Well	174858
3	Tube well	34935
4	Ponds	13417
5	Others	75002

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
AES-1	<i>Ranker (Light Soils)</i>	Soil are light gray in colour, well drained, better suited of all types of crops under irrigated conditions which covered two orders, vertisols and inceptions	84.40 (36%)
AES-2	<i>Kabar/Mar (Heavy Soils)</i>	The soil are black in colour, posses high moisture holding capacity and have integrated of Mont morillonite, illite and chloride minerals which covered under the order of vertisols.	46.89 (20%)
AES-3	<i>Padua (Medium Soils)</i>	Soil are light gray in colour, well drained, better suited of all types of crops under irrigated conditions which covered two orders, vertisols and inceptisols	103.15 (44%)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Blackgram	115560	612468	5.3
2	Groundnut	62300	753830	12.1
3	Sesame	16070	56245	3.5
4	Soybean	14450	118490	8.2
5	Greengram	2880	12672	4.4
6	Sorghum	460	5658	12.3
7	Wheat	172000	5160000	30.0
8	Mustard	17900	161100	9.0
9	Pea	7200	90000	12.5
10	Chickpea	6200	75330	12.15
11	Lentil	1480	12136	8.2
12	Barley	1200	27000	22.5
13	Chilli	7453	317497.8	42.6
14	Ginger	6509	978302.7	150.3
15	Brinjal	1860	429102	230.7
16	Colocasia	1708	239974	140.5
17	Tomato	1569	235506.9	150.1
18	Potato	1218	183674.4	150.8
19	Guava	414	120308.4	290.6
20	Mango	227	27444.3	120.9
21	Aonla	139	17416.7	125.3

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	101.8	19.5	8.0
Feb, 22	0.0	32.0	4.2
Mar, 22	1.5	45.6	8.4
Apr, 22	0.0	45.6	17.0
May, 22	36.0	41.9	26.2
Jun, 22	141.7	39.7	26.3
July, 2022	202.5	32.7	24.2
Aug., 2022	307.5	30.3	22.6
Sept., 2022	210.6	31.8	22.9
Oct. 2022	44.3	31.6	17.6
Nov. 2022	0.0	29.3	10.7
Dec. 2022	0.0	25.3	7.4

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production (Yearly)	Productivity
Cattle			
Cow	364447	211917 kg	3.0 kg/day
Buffalo	231919	176081 kg	4.23 kg/day
Sheep			
Sheep	42048	-	15.41 kg
Goats	219237	901467 kg	16.29 kg
Poultry			
Broiler	48685	83251 kg	0.86 kg
Poultry (Hen)	75920	72.58 Lakh eggs	55/year
Fisheries			
Category	Area	Production	Productivity
Fish	-	-	-

Details of Operational area / Villages (2022)

Sl.	Tehsil	Name of	Name of the	Major crops	Major problem identified	Identified Thrust

No		the block	village	& enterprises		Areas
1	Tikamgarh	Tikamgarh	Badagaon	Major Crops - Blackgram, Groundnut, Sesame, Wheat, Mustard, Chickpea, Peas, Vegetables (Tomato, Potato, Brinjal, Chilli, Colocasia), Spices (Chilli, Ginger, Turmeric), Fruits (Ber, Mango, Guava, Pomegranate, Jackfruit, Anola). Enterprises – Milch animal (Cow & Buffalo), Meat animal (Goat & Sheep), Poultry birds (Hen)	Blackgram – 1. Low yield due to old varieties with broad casting sowing and incidence of MYMV and anthracnose 2. Increase cost of cultivation due to use of chemical fertilizers and insecticides Groundnut - Low yield due to old varieties with broad casting sowing and incidence of leaf spot, infestation of white grub. Soybean – 1. Low yield due to old varieties with broad casting sowing and incidence of YMV, Aerial blight and anthracnose, Semi-looper, Girdle beetle. 2. Imbalance of fertilizer, Infestation of weeds. Sesame - Low yield due to old varieties with broad casting sowing, Imbalance of fertilizers and infestation of weeds, insect-pest, incidence of leaf spots. Wheat - Low yield and increased cost of cultivation due to use of imbalance fertilizers and seed with old varieties. Mustard – 1. Increase cost of cultivation due to use of imbalance fertilizers and insecticides. 2. Low yield due to old varieties, broad casting sowing and Aphid Infestation. 3. Low yield due to No use of Sulphur & Potash. Chickpea - Low yield due to old varieties, broad casting sowing, Pod borer, Wilt & Dry root rot. Brinjal - Low yield due to old varieties, Imbalance of fertilizers, Infestation of fruit & shoot borer. Chilli - Low yield due to old varieties, No use of Sulphur, Leaf curl virus. Tomato - Low yield due to old varieties, Imbalance dose of fertilizers, No Stacking, Mulching, TLCV and blights. Ginger - Low yield due to old varieties, Imbalance of fertilizers, Incidence of soft rot. Colocasia - Low yield due to old varieties, Imbalance of fertilizers, Incidence of phytophthora blight. Potato - Low yield due to old varieties, Imbalance of fertilizers, Incidence of late blight. Capsicum - Low yield due to old varieties, Imbalance of fertilizers, No Mulching & Drip, Incidence of leaf curl virus. Papaya - Low yield due to old varieties, Leaf curl virus & YMV. Large area of Major Crops (Blackgram, Sesame and Wheat) need to be diversified. No area of Millets nutrient rich crops in district. Women in Agriculture – Malnutrition, low income generation and high drudgery in agricultural practices. Natural Resource Management – Lack of rain water harvesting & soil conservation, repairing of defund old water bodies, agriculture waste management. LPM - Low production of milk due to indiscriminate breeds and unavailability of green fodder round the year. Low production of meat due to local & disease prone breed and imbalance diet. Agriculture Engineering – Less adoptability of mechanization due to large population of farmers having small land holding.	1. Continuous growing of roots and tuber crop leading to weeds, diseases, insects and pests. 2. Continuous growing of old, local and susceptible crop varieties are prone to diseases, insects and pests. 3. Indiscriminate use of insecticides, pesticides and weedicides. 4. Integrated managements of Biotic & Abiotic stress. 5. Integrated managements of nutrients in crops. 6. Integrated managements of crops diseases. 7. Integrated managements of insect & pests of crops. 8. Precision farming. 9. Popularization of organic & natural farming. 10. Application of remote sensing, drone, GIS and crop modeling in agriculture. 11. Promotion of cultivation of Medicinal and Aromatic plants. 12. Empowerment of the women. 13. Increase the mechanization. 14. Conservation of agriculture. 15. Increase the custom Hiring Centre. 16. Natural Resource Management. 17. Increase the small scale industries and skill development among the rural youth. 18. Use the digital, social, electronic and print media for communication and popularization of agriculture technologies.
2	Tikamgarh	Tikamgarh	Nanni Tehri			
3	Tikamgarh	Tikamgarh	Para Khas			
4	Tikamgarh	Tikamgarh	Soriyana			
5	Tikamgarh	Tikamgarh	Anantpura			
6	Tikamgarh	Tikamgarh	Nagada			
7	Tikamgarh	Tikamgarh	Gudanwara			
8	Tikamgarh	Tikamgarh	Ganeshganj			
9	Tikamgarh	Tikamgarh	Heerapura			
10	Tikamgarh	Tikamgarh	Ranipura			
11	Tikamgarh	Tikamgarh	Kanti			
12	Jatara	Jatara	Kodiya			
13	Jatara	Jatara	Hasgora			
14	Jatara	Jatara	Nandanpur			
15	Jatara	Jatara	Simariya			
16	Jatara	Jatara	Kandwa			
17	Jatara	Jatara	Lidhora Tal			
18	Jatara	Jatara	Dor			
19	Jatara	Jatara	Digora			
20	Jatara	Jatara	Dargay Kala			
21	Jatara	Jatara	Guda Nadi			
22	Jatara	Jatara	Muhara			
23	Jatara	Jatara	Bijrotha			
24	Jatara	Jatara	Piprat			
25	Jatara	Jatara	Shyamni			
26	Baldevgarh	Baldevgarh	Ladwari			
27	Baldevgarh	Baldevgarh	Khushipura			
28	Baldevgarh	Baldevgarh	Guna			
29	Baldevgarh	Baldevgarh	Mahobia			
30	Baldevgarh	Baldevgarh	Chandrapura			
31	Baldevgarh	Baldevgarh	Baisa			
32	Baldevgarh	Baldevgarh	Mundikhera			
33	Baldevgarh	Baldevgarh	Majara Khera			
34	Palera	Palera	Pahadi Bujurg			
35	Palera	Palera	Nuna			
36	Palera	Palera	Purenia			
37	Palera	Palera	Bamhori Kala			
38	Palera	Palera	Kharo			
39	Niwari	Niwari	Naiguan			
40	Niwari	Niwari	Nayakheda			
41	Prithvipur	Prithvipur	Luharguan			

Priority / Thrust areas

S. No.	Particulars
1	Blackgram – 1. Low yield due to old varieties with broad casting sowing and incidence of MYMV and anthracnose.

	2. Increase cost of cultivation due to use of chemical fertilizers and insecticides.
2	Groundnut – 1. Low yield due to old varieties with broad casting sowing and incidence of leaf spot, infestation of white grub.
3	Soybean - Low yield due to old varieties with broad casting sowing and incidence of YMV, Aerial blight and anthracnose, Semi-looper, Girdle beetle. 2. Imbalance of fertilizer, Infestation of weeds.
4	Sesame – 1. Low yield due to old varieties with broad casting sowing , Imbalance of fertilizers and infestation of weeds, insect-pest, incidence of leaf spots.
5	Wheat – 1. Low yield and increased cost of cultivation due to use of imbalance fertilizers and seed with old varieties.
6	Mustard – 1. Increase cost of cultivation due to use of imbalance fertilizers and insecticides. 2. Low yield due to old varieties, broad casting sowing and Aphid Infestation. 3. Low yield due to No use of Sulphur & Potash.
7	Chickpea – 1. Low yield due to old varieties, broad casting sowing, Pod borer, Wilt & Dry root rot.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	90	19	125

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
108	2700	460	37800

Seed Production (Qtl.)	Planting material (Nos.)
650	20000

B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT	Title of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
1	IDM	Blackgram	Low yield due to old varieties with broad casting sowing and incidence of MYMV and anthracnose	OFT on anthracnose	CFLD on Mukundra, Kota-3 and FLD on MYMV	Production Technology	Production Technology	Field Day and Diagnostic Visit	Seeds and pesticides
2	NRM		Increase cost of cultivation due to use of chemical fertilizers and insecticides	OFT on production technology under Natural Farming	FLD on use of Biofertilizer and Natural Farming	Use of Bio-fertilizer and Natural Farming	Use of Bio-fertilizer and Natural Farming	Field Day and Diagnostic Visit	Seeds and organic inputs
3	IPM	Groundnut	Low yield due to old varieties with broad casting sowing and incidence of leaf spot, infestation of white grub	OFT on IPM White grub, Production technology under Natural Farming	FLDs on varieties ICGV-350, GJG-32, with IDM on Leaf spots, Ridge Bed & Line sowing	Production Technology, IDM and IPM	Production Technology, IDM and IPM	Field Day and Diagnostic Visit	Seeds and pesticides
4	CPM	Soybean	Low yield due to old varieties with broad casting sowing and incidence of YMV, Aerial blight and anthracnose, Semi-looper, Girdle beetle	-	CFLD on JS-2069	Production Technology, IPM and IDM	Production Technology, IPM and IDM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
5	INM		Imbalance of fertilizer, Infestation of weeds	-	-	INM, IWM	INM, IWM	Diagnostic Visit	Seeds and other agricultural inputs
6	CPM	Sesame	Low yield due to old varieties with broad casting sowing , Imbalance of fertilizers and infestation of weeds, insect-pest, incidence of leaf spots	-	CFLD on RT 351	INM, IWM, IDM and IPM	INM, IWM, IDM and IPM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
7	CPM	Wheat	Low yield and increased cost of cultivation due to use of imbalance fertilizers and seed with old varieties	OFT on Wheat production under Natural Farming	FLD on Wheat high yielding var. Pusa Tejas, Bio fortified HI 1633 and heat tolerance HI 1634	Production Technology	Production Technology	Field Day and Diagnostic Visit	Seeds and other agricultural inputs

					FLD on Use of Nano Urea				
8	CPM	Mustard	Increase cost of cultivation due to use of imbalance fertilizers and insecticides	OFT on Mustard production under Natural Farming	CFLD on Giriraj	Production Technology	Production Technology	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
9	IPM		Low yield due to old varieties, broad casting sowing and Aphid Infestation	-	FLD on IPM in Aphid management FLD on Mustard high yielding variety RH 749	IPM	IPM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
10	INM		Low yield due to No use of Sulphur & Potash	-	FLD on Use of Sulphur & Potash	INM	INM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
11	CPM	Chickpea	Low yield due to old varieties, broad casting sowing, Pod borer, Wilt & Dry root rot	OFT on Dry Root Rot	CFLD on JG 36	Production Technology	Production Technology	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
12	CPM	Brinjal	Low yield due to old varieties, Imbalance of fertilizers, Infestation of fruit & shoot borer	-	FLD on Variety Kashi Sandesh	INM, IPM	INM, IPM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
13	CPM	Chilli	Low yield due to old varieties, No use of Sulphur, Leaf curl virus	-	-	Production technology	Production technology	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
14	CPM	Tomato	Low yield due to old varieties, Imbalance dose of fertilizers, No Stacking, Mulching, TLCV and blights	-	FLD on Variety Kashi Abhiman	INM, IPM, IDM, Stacking, Mulching	INM, IPM, IDM, Stacking, Mulching	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
15	CPM	Ginger	Low yield due to old varieties, Imbalance of fertilizers, Incidence of soft rot	OFT on variety Mahima	-	INM, IPM, IDM	INM, IPM, IDM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
16	CPM	Colocasia	Low yield due to old varieties, Imbalance of fertilizers, Incidence of phytophthora blight	OFT on variety Indra Arvi 1	-	INM, IPM, IDM	INM, IPM, IDM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
17	CPM	Potato	Low yield due to old varieties, Imbalance of fertilizers, Incidence of late blight	OFT on Kufri Nilkanth, Frysona	-	INM, IPM, IDM	INM, IPM, IDM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
18	CPM	Capsicum	Low yield due to old varieties, Imbalance of fertilizers, No Mulching & Drip, Incidence of leaf curl virus	OFT on variety Asha	-	INM, IPM, IDM, Mulching & Drip	INM, IPM, IDM, Mulching & Drip	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
19	CPM	Papaya	Low yield due to old varieties, Leaf curl virus & YMV	-	-	Improved variety, INM, IDM	Improved variety, INM, IDM	Field Day and Diagnostic Visit	Seeds and other agricultural inputs

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
18	5	4	4	1	2	-	-	-	2	18
TOTAL	5	4	4	1	2	-	-	-	2	18

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-

Detailed Information about OFT:

OFT - 1 (Dr. U. S. Dhakad – 1st Year)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Groundnut production under Natural Farming

Year/Season:	Kharif 2023
Farming situation:	Rainfed and Sandy loam soil, Groundnut-Wheat cropping system
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	Crop Production / Natural Farming
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Broadcasting sowing method + Imbalance dose of fertilizers (DAP 100 kg/ha)
T2 – Recommended Practice	Line sowing method + RDF (NPK 20:60:40)
T3 - Recommended Practice	Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 4 times at 20 days interval (3 times drenching in crop by hazara and 1 time @ 5% foliar application), Inter cropping with sesame (10:1), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	20-30 June 2023
Date of harvesting:	5-15 October 2023
Source of technology:	Gurukul Kurukshetra, Haryana, 2021
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Groundnut
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Soil pH	-
EC	dS/m
OC	%
NPK	kg/ha
Microorganism Population (pre sowing and post harvest)	No.
Root Nodules/plant	No.
Pods/plant	No.
Yield	q/ha

OFT - 2 (Dr. U. S. Dhakad – 1st Year)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Blackgram production under Natural Farming
Year/Season:	Kharif 2023
Farming situation:	Rainfed, Blackgram-Mustard/Wheat cropping system
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	Crop Production / Natural Farming
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Broadcasting sowing method + Imbalance dose of fertilizers (DAP 75 kg/ha)
T2 – Recommended Practice	Ridge furrow sowing method + RDF (NPK 20:40:20)
T3 - Recommended Practice	Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 3 times at 20 days interval (2 times drenching in crop by hazara and 1 time @ 5% foliar application), Inter cropping with sesame (10:1), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	1-10 July 2023
Date of harvesting:	25-30 September 2023
Source of technology:	Gurukul Kurukshetra, Haryana, 2021
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Blackgram
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Soil pH	-
EC	dS/m
OC	%
NPK	kg/ha
Microorganism Population (pre sowing and post harvest)	No.
Branches/plant	No.
Pods/plant	No.
Yield	q/ha

OFT - 3 (Dr. U. S. Dhakad – 1st Year)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Mustard production under Natural Farming
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated, Blackgram-Mustard cropping system
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	Crop Production / Natural Farming
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Broadcasting sowing method + Imbalance dose of fertilizers (DAP 75 kg/ha + 50 kg urea)
T2 – Recommended Practice	Line sowing + RDF (NPK 80:50:30)
T3 - Recommended Practice	Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha 4 times at 20 days interval (3 times drenching in crop by hazara and 1 time @ 5% foliar application), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	25-30 October 2023
Date of harvesting:	1-5 March 2024
Source of technology:	Gurukul Kurukshetra, Haryana, 2021
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Soil pH	-
EC	dS/m
OC	%
NPK	kg/ha
Microorganism Population (pre sowing and post harvest)	No.
Branches/plant	No.
Siliques/plant	No.
Yield	q/ha

OFT - 4 (Dr. U. S. Dhakad – 1st Year)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Wheat production under Natural Farming
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated, Blackgram-Wheat cropping system
Problem diagnosis:	Increase of production cost, degraded health of soil and environment

Thematic area:	Crop Production / Natural Farming
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Broadcasting sowing method + Imbalance dose of fertilizers (100 kg of DAP and 75 kg/ha urea)
T2 – Recommended Practice	Line sowing + RDF (NPK 100:60:40)
T3 - Recommended Practice	Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha 4 times at 20 days interval (3 times drenching in crop by hazara and 1 time @ 5% foliar application), Inter cropping with mustard (10:1), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	1-15 November 2023
Date of harvesting:	1-15 April 2024
Source of technology:	Gurukul Kurukshetra, Haryana, 2021
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Soil pH	-
EC	dS/m
OC	%
NPK	kg/ha
Microorganism Population (pre sowing and post harvest)	No.
Tillers/plant	No.
Yield	q/ha

OFT - 5 (Dr. S. K. Jatav – 2nd Year)

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Groundnut ICGV 350 under Groundnut-Wheat cropping system
Year/Season:	Kharif 2023
Farming situation:	Rainfed, Groundnut-Wheat cropping system
Problem diagnosis:	Low yield of groundnut due to use of old variety Jhumkul
Thematic area:	Crop production
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Old variety Jhumkul + Broadcasting sowing method + Imbalance use of chemical fertilizers
T2 – Recommended Practice	ICGV 350 + Line sowing + RDF
T3 - Recommended Practice	ICGV 350 + Line sowing + seed treatment with Trichoderma + PSB 10ml/kg seed + 50% RDF with PSB + ZSB + KSB 2.5lit./ha. Soil treatment + Pseudomonas 5 lit./ha
Date of sowing:	Tentative 20-30 June 2023
Date of harvesting:	Tentative 5-15 October 2023
Source of technology:	JAU, Junagarh, 2012
Characteristics of technology:	High yielding variety, yield 25-30 q/ha, duration 105-110 days, Rust & Stem Rot resistant
Name of Crop:	Groundnut
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Pods/plant	No.
Test weight of 100 seeds	gm
Yield	q/ha

OFT - 6 (Dr. S. K. Jatav – 1st Year)

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Pearl Millets (Bajra) varieties PHB 2884 & AHB 1200 under Minor Millets cropping system
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Farmers are not growing Pearl Millets but growing Soybean, Blackgram and Groundnut
Thematic area:	Crop production and VR
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Growing of Soybean, Blackgram and Groundnut
T2 – Recommended Practice	PHB 2884 + Line sowing + Seed treatment
T3 - Recommended Practice	AHB 1200 + Line sowing + Seed treatment
Date of sowing:	Tentative 20-30 July 2023
Date of harvesting:	Tentative 5-15 September 2023
Source of technology:	PAU, Ludhiana, 2016 & VNMKV, Parbhani, 2018
Characteristics of technology:	High yielding variety, late sowing, duration 80-85 days
Name of Crop:	Pearl Millets (Bajra)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Cobs/plant	No.
Grains/cob	No.
Test weight of 100 seeds	gm
Yield	q/ha

OFT - 7 (Dr. S. K. Jatav – 2nd Year)

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Fieldpea variety IPFD 12-2
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of old variety KPMR 400
Thematic area:	Crop production
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Old variety KPMR 400 + broadcasting sowing method
T2 – Recommended Practice	IPFD 12-2 + Line sowing + Seed treatment with Bio fertilizer + Spray of Pseudomonas @ 5 lit./ha
T3 - Recommended Practice	T2 + 50% RDF
Date of sowing:	Tentative 1-15 November 2023
Date of harvesting:	Tentative 1-15 March 2024
Source of technology:	IIPR, Kanpur, 2017
Characteristics of technology:	High yielding variety, yield 22-25 q/ha, duration 100-105 days, Resistant to Powdery Mildew
Name of Crop:	Field Pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Pods/plant	No.
Plant height	cm
Test weight of 100 seeds	gm
Yield	q/ha

OFT - 8 (Dr. S. K. Jatav – 2nd Year)

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of bio-fortified Wheat varieties JW 3465 and HI 1633 under Soybean-Wheat cropping system
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield and non bio-fortified growing in practice, imbalance use of fertilizers and broadcasting sowing method
Thematic area:	Crop production, VR (Bio-fortified)
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Old variety Lok 1 + broadcasting sowing method
T2 – Recommended Practice	JW 3465 + Line sowing + Seed treatment with 100% RDF
T3 - Recommended Practice	HI 1633 + Line sowing + Seed treatment with 100% RDF
Date of sowing:	Tentative 1-15 November 2023
Date of harvesting:	Tentative 1-15 April 2024
Source of technology:	JNKVV Jabalpur and IARI, Indore, 2021
Characteristics of technology:	High yielding variety, yield 40-45 q/ha, duration 85-115 days, Zinc content (ppm) 41.1
Name of Crop:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Tillers/plant	No.
Grains/ear	No.
Plant height	cm
Yield	q/ha

OFT - 9 (Dr. R. K. Prajapati – 1st Year)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated Management of white grub insect in Groundnut
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield (28-30%) due to heavy infestation (37-41%) of white grub in groundnut
Thematic area:	Plant Protection - Integrated Pest management (PLP-IPM)
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	No deep summer ploughing + Indiscriminate use of insecticides
T2 – Recommended Practice	Deep summer ploughing + Seed treatment with Chlorpyrifos 20 EC @ 20 ml/kg of seed + Light trap @ 1/ha in standing crop, apply Chlorpyrifos 20 EC @ 4 lit/ha through irrigation, drop by drop method at ETL level @1 grub/m2
T3 - Recommended Practice	Deep summer ploughing + furrow application of Beauveria Bassiana formulation @ 5 liter/ha with FYM @ 1q. and Application of EPN (Heterorhabdites Bacteriophora) formulation 5 kg { @ Infective Juveniles (Ijs)/ha} with 300 Kg FYM + Light trap @ 1/ha + Pheromone traps (Anisole) @ 3/ha.
Date of sowing:	20-30 June 2023
Date of harvesting:	5-15 October 2023
Source of technology:	NIPHM, Hyderabad, 2022
Characteristics of technology:	NRM technology + Naturally bio agents Beauveria Bassiana and EPN + Mechanical insect management are environmentally safe plant protection majors which reduce the chemical hazards

Name of Crop:	Groundnut
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
White grub Population/m ²	No.
Infestation	%
Yield	q/ha

OFT - 10 (Dr. R. K. Prajapati – 1st Year)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated Management of anthracnose disease in Blackgram
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield (25-30%) due to heavy incidence (27-36%) of anthracnose disease in Blackgram
Thematic area:	Plant Protection - Integrated Pest management (PLP-IDM)
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Variety IPU 94-1 + Indiscriminate use of fungicides
T2 – Recommended Practice	Seed treatment with (Mancozeb 63% WP + Carbendazim 12% WP) @ 3g/kg of seed + Spraying of (Tebuconazole 10% + Sulphur 65% WG) @ 1.25 kg/h after appearance of incidence on foliage/fruits/panicles at 15 days interval as per need based
T3 - Recommended Practice	Deep summer ploughing + Seed treatment with Pseudomonas Fluorescens Formulation @ 10 ml/kg of seed + Spraying of P. Fluorescens Formulation 20ml/lit. of water at the 30, 40 and 60 DAS
Date of sowing:	1-10 July 2023
Date of harvesting:	25-30 September 2023
Source of technology:	JNKVV, Jabalpur, 2020
Characteristics of technology:	NRM and Naturally bio agents Pseudomonas Fluorescens are environmentally safe plant protection majors which reduce the chemical hazards
Name of Crop:	Blackgram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Disease incidence	%
Disease severity	%
Disease Intensity	%
Pods/plant	No.
Grains/pod	No.
Yield	q/ha

OFT - 11 (Dr. R. K. Prajapati – 1st Year)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated management of dry root rot disease in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield (24-28%) due to heavy incidence (28-36%) of dry root rot disease in Chickpea
Thematic area:	Plant Protection - Integrated Pest management (PLP-IDM)
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Variety JG 12 + Indiscriminate use of fungicides
T2 – Recommended Practice	Seed treatment with (Mancozeb 63% WP + Carbendazim 12% WP) @ 3g/kg of seed + Spot drenching of (Tebuconazole 50% + Trifloxystrobin 25% WG) @ 0.5 g/ lit. of water at incidence spot as need based
T3 - Recommended Practice	Deep summer ploughing + Soil application of Trichoderma Viride @ 1 lit. with 100 kg FYM + Seed treatment with T. viride @ 10 ml/kg of seed
Date of sowing:	25-30 October 2023
Date of harvesting:	1-5 March 2024
Source of technology:	JNKVV, Jabalpur, 2012
Characteristics of technology:	NRM and Naturally bio agents Trichoderma Viride are environmentally safe plant protection majors which reduce the chemical hazards
Name of Crop:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Disease incidence	%
Disease severity	%
Disease Intensity	%
Pods/plant	No.
Yield	q/ha

OFT - 12 (Dr. R. K. Prajapati – 1st Year)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated Management of late blight disease in Potato
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield (30-35%) due to heavy incidence (36-45%) of late blight disease in Potato
Thematic area:	Plant Protection - Integrated Pest management (PLP-IDM)
Area of each trials (ha):	0.2
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Use of susceptible variety Kufri Bahar + Indiscriminate use of fungicides
T2 – Recommended Practice	Variety Kufri Nilkanth + Tuber treatment with (Mancozeb 64% WP + Metalaxyl 4% WP) @ 3 gm/lit of water before sowing
T3 - Recommended Practice	Variety Kufri Nilkanth + Tuber treatment with (Mancozeb 64% WP + Metalaxyl 4% WP) @ 3 gm/lit of water before sowing + Spraying of (Iprovalicarb 5.5 % WP + Propineb 61.25 % WP) @ 1.5 ml per liter of water on appearance of the disease at 15 days interval as per need based
Date of sowing:	1-15 November 2023
Date of harvesting:	20-28 February 2024
Source of technology:	CPRI, Shimla, 2020
Characteristics of technology:	High yielding, late blight resistant variety and new less environmentally affected new pesticides molecules
Name of Crop:	Potato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Disease incidence	%
Disease severity	%
Disease Intensity	%
Tubers/plant	No.
Weight of tuber	gm.
Yield	q/ha

OFT - 13 (Dr. S. K. Singh – 1st Year)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Ginger variety Mahima and Rajta
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Ginger due to use of old varieties + Imbalance dose of fertilizers
Thematic area:	VR
Area of each trials (ha):	0.2
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Old varieties Raigarhi and Basi + Imbalance dose of fertilizers (DAP 50 kg + Urea 50 kg/ha)
T2 – Recommended Practice	Mahima + Rhizome treatment with Mancozeb + Metalaxyl @ 3 gm/lit + RDF (NPK - 100:50:50)
T3 - Recommended Practice	Rajta + Rhizome treatment with Mancozeb + Metalaxyl @ 3 gm/lit + RDF (NPK - 100:50:50)
Date of sowing:	15-25 June 2023
Date of harvesting:	15-20 February 2024
Source of technology:	IISR, Kozhikode (Calicut), 2002
Characteristics of technology:	Medium duration, high yielding and tolerance to bacterial wilt
Name of Crop:	Ginger
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Rhizomes/plant	No.
Rhizomes weight/plant	gm
Yield	q/ha

OFT - 14 (Dr. S. K. Singh – 1st Year)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Colocasia variety Indra Arvi 1
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Colocasia due to use of old variety Gauriyya + Imbalance dose of fertilizers
Thematic area:	VR
Area of each trials (ha):	0.2
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Old variety Gauriyya + Imbalance dose of fertilizers (SSP 50 kg + Urea 50 kg/ha)
T2 – Recommended Practice	Indra Arvi 1 + Ridge sowing method + Rhizomes treatment with Mancozeb + Metalaxyl @ 3 gm/lit + RDF (NPK – 80:60:60)
T3 - Recommended Practice	Indra Arvi 1 + Rhizome treatment with Beejaamrit, Application of Ghanjivaamrit @ 500 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 5 time at 21 days interval (2 times drenching with irrigation and 3 times @ 5% foliar application, Mulching with Plash leaves, Foliar spray of Agnayastra or Dasparni @ 100 ml/lit as per requirement of plant protection
Date of sowing:	25-30 June 2023
Date of harvesting:	20-25 January 2024
Source of technology:	IGKV, Raipur, 2003
Characteristics of technology:	Medium duration, high yielding and less contain of calcium oxalate
Name of Crop:	Colocasia
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Rhizomes/plant	No.

Rhizomes weight/plant	gm
Yield	q/ha

OFT - 15 (Dr. S. K. Singh – 1st Year)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Potato early variety Kufri Pukhraj
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to long duration variety harvested early and affected wheat yield due to delay sowing
Thematic area:	VR
Area of each trials (ha):	0.2
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Late var. Kufri Sadabahar + Imbalance dose of fertilizers (DAP 50 kg + Urea 100 kg/ha)
T2 – Recommended Practice	Kufri Pukhraj + Tuber (seed) treatment with Mancozeb + Metalaxyl @ 3 gm/lit + RDF (NPK – 180:80:100)
T3 - Recommended Practice	Kufri Pukhraj + Tuber (seed) treatment with Beejaamrit, Application of Ghanjivaamrit @ 500 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 5 time at 21 days interval (2 times drenching with irrigation and 3 times @ 5% foliar application, Foliar spray of Agnayastra or Dasparni @ 100 ml/lit as per requirement of plant protection
Date of sowing:	20-30 September 2023
Date of harvesting:	10-15 December 2023
Source of technology:	CPRI, 1999
Characteristics of technology:	Early variety and suitable for Wheat sowing
Name of Crop:	Potato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Tubers/plant	No.
Weight of tubers/plant	gm
Yield	q/ha

OFT - 16 (Dr. S. K. Singh – 1st Year)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Capsicum (Shimla Mirch) high yielding variety Asha (hyb.)
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety Bharat, Imbalance use of fertilizers and Flat bed sowing method
Thematic area:	VR
Area of each trials (ha):	0.2
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Old variety Bharat + Flat bed sowing method + No use of Mulching and Drip Irrigation + Imbalance dose of fertilizers (DAP 30 kg + Urea 75 kg/ha)
T2 – Recommended Practice	Asha (hyb.) + Seed treatment + Raised bed sowing method + Mulching + Drip irrigation + RDF (NPK – 100:60:50) + Pseudomonas
T3 - Recommended Practice	Asha (hyb.) + Seed treatment with Beejaamrit, application of Ghanjivaamrit @ 500 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 5 time at 21 days interval (2 times drenching with irrigation and 3 times @ 5% foliar application, Mulching & Drip, Foliar spray of Agnayastra or Dasparni @ 100 ml/lit as per requirement of plant protection
Date of sowing:	15-20 October 2023
Date of harvesting:	25-30 December 2023
Source of technology:	HM Clause India Pvt. Ltd., 2014
Characteristics of technology:	Medium duration, high yielding, tolerance to bacterial disease and fruits are dark green

Name of Crop:	Capsicum (Shimla Mirch)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Fruits/plant	No.
Branches/plant	No.
Fruit weight/plant	kg
Yield	q/ha

OFT - 17 (Dr. I. D. Singh – 1st Year)

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Kodo with improved variety JK 137
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to use of local variety Kodo + Imbalance use of fertilizers
Thematic area:	Crop Production + INM
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Local variety Kodo + Imbalance use of fertilizers (NPK – 0:0:0)
T2 – Recommended Practice	Improved variety JK 137 + NPK (40:20:10)
T3 - Recommended Practice	Improved variety JK 137 + Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 4 times at 20 days interval (3 times drenching in crop by hazara and 1 time @ 5% foliar application), Inter cropping with sesame (10:1), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	1-10 July 2023
Date of harvesting:	1-10 November 2023
Source of technology:	JNKVV, Jabalpur, 2018
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Kodo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Branches/plant	No.
Ear Height	cm
Yield	q/ha

OFT - 18 (Dr. I. D. Singh – 1st Year)

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Little Millet (Kutki) with improved variety JK 4
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to use of local variety Kutki + Imbalance use of fertilizers
Thematic area:	Crop Production + INM
Area of each trials (ha):	0.4
No. of trials or farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice	Local variety Kutki + Imbalance use of fertilizers (NPK – 0:0:0)
T2 – Recommended Practice	Improved variety JK 4 + NPK (40:20:10)

T3 - Recommended Practice	Improved variety JK 4 Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 4 times at 20 days interval (3 times drenching in crop by hazara and 1 time @ 5% foliar application), Inter cropping with sesame (10:1), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	1-10 July 2023
Date of harvesting:	1-10 November 2023
Source of technology:	JNKVV, Jabalpur, 2016
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Little Millet (Kutki)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Branches/plant	No.
Ear Height	cm
Yield	q/ha

Information about Extension OFT:

Title	-
Season & Year	-
Problem identified	-
Thematic Area	-
Farming situation	-
Name of Technology Intervention under study	-
Farmers Practice	-
No. of replication (Farmers)	-

Information about Home Science OFT:

Title of on-farm trial:	-
Year/Season:	-
Problem diagnosis:	-
Thematic area: (Focus area in DFI and nutri smart initiatives)	-
No of trials:	-
No. of farmers/farm women involved	-
Type of OFT (Assessment/ Refinement):	-
Details of technology selected for assessment:	
T1 – Farmers Practice	-
T2 – Recommended Practice	-
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	-
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo.	Parameters identified for performance evaluation
1	Soybean	VR with Organic Farming	JS 2069 + Seed treatment Trichoderma + Rhizobium + PSB @ 10 ml/kg seed + 50% RDF with ZSB + KSB @ 2.5 lit/ha Soil treatment + Pseudomonas @ 5 lit/ha + Line sowing	Seed, Trichoderma and bio fertilizers	Kharif, 2023	2.0	05	Branches/plant (No.), Pods/plant (No.) and Yield (q/ha)
2	Blackgr	Natural	Seed treatment with Beejaamrit @ 20 ml/kg	Seed, Pulse	Kharif,	2.0	05	Soil pH, EC

	am	Farming	seed, application of Ghanjivaamrit @ 500 kg/ha pre sowing, Jivaamrit @ 500 lit/ha 2 time at 20 days interval (2 times drenching in crop by hazara and 1 time @ 5% foliar application, Inter cropping with sesame (10:1), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection	flour, Jaggery and Goumutra	2023			(dS/m), OC (%), NPK (kg/ha), Microorganism Population (No.) - pre sowing and post harvest, Pods/plants (No.) and Yield (q/ha)
3	Mustard	VR with Organic Farming	RH 749 + Seed treatment Trichoderma + Azotobacter + PSB @10ml/kg seed + 50% RDF with PSB + ZSB + KSB @ 2.5 lit/ha Soil treatment + Pseudomonas @ 5lit./ha + Line sowing	Seed, Trichoderma and bio fertilizers	Rabi, 2023-24	2.0	05	Branches/plant (No.), Siliques/plant (No.) and Yield (q/ha)
4	Fieldpea	Natural Farming	Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 500 kg/ha pre sowing, Jeevaamrit @ 500 lit/ha 2 time at 20 days interval (2 times drenching in crop by hazara and 1 time @ 5% foliar application, Inter cropping with Mustard (10:1), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection	Seed, Pulse flour, Jaggery and Goumutra	Rabi, 2023-24	2.0	05	Soil pH, EC (dS/m), OC (%), NPK (kg/ha), Microorganism Population (No.) - pre sowing and post harvest, Pods/plants (No.) and Yield (q/ha)
5	Sorghum	Crop Diversification	Short duration variety CSV 27 + Line sowing + seed treatment Trichoderma + PSB 10 ml/kg seed + ZSB + KSB @ 2.5 lit/ha + Pseudomonas @ 5 lit/ha + 50% RDF	Seed and seed treatment	Kharif, 2023	2.0	05	Grains/panicle (No.), Panicles weight (gm.), Yield (q/ha)
6	Cluster Beans	Crop Diversification	Improved variety HG 2-20 + seed treatment Trichoderma + Rhizobium + PSB @ 10 ml/kg seed + ZSB + KSB @ 2.5 lit/ha + Pseudomonas @ 5 lit/ha with line sowing method	Seed and seed treatment	Kharif, 2023	2.0	05	Pods/plant (No.), Branches/plant (No.), Yield (q/ha)
7	Barley	Crop Diversification	Improved variety DWRB-137 + seed treatment Trichoderma + Azotobacter+ PSB @ 10 ml/kg seed + ZSB + KSB @ 2.5 lit/ha + Pseudomonas @ 5 lit/ha with line sowing method	Seed and seed treatment	Rabi, 2023-24	2.0	05	Tillers/plant (No.), Grains/ear (No.), Yield (q/ha)
8	Lentil	Crop Diversification	Improved variety IPL 316 + seed treatment Trichoderma + Rhizobium + PSB @ 10 ml/kg seed + ZSB + KSB @ 2.5 lit/ha + Pseudomonas @ 5 lit/ha with line sowing method	Seed and seed treatment	Rabi, 2023-24	2.0	05	Pods/plant (No.), Test weight of 100 seeds (gm), Yield (q/ha)
9	Groundnut	Plant Protection (PLP) – IDM	Variety GJG-32 against leaf spots disease + Seed treatment with Vitavax 2.5 g/kg of seed + Spraying of (Azoxystrobin 18.2% w/w + Difenconazole 11.4% w/w SC) @ 1ml /lit of water at 15 days interval as per need based	Variety seed, Fungicides	Kharif, 2023	2.0	05	Disease incidence (%), Pods/plant (No.) and Yield (q/ha)
10	Colocasia	Plant Protection (PLP) – IDM	Improved variety Indra Arbi-1 + Seed treatment of rhizome with (Mancozeb 64% WP + Metalaxyl 4% WP) @ 3 gm/lit of water + Spraying of (Azoxystrobin 18.2% w/w + Difenconazole 11.4% w/w SC) @ 1ml /lit of water at 15 days interval as per need based	Variety seed, Fungicides	Kharif, 2023	2.0	10	Disease incidence (%), Rhizomes/plant (No.), Weight of Rhizome (gm) and Yield (q/ha)
11	Mustard	Plant Protection (PLP) – IPM	Improved variety Giriraj + Timely sowing + For Aphid population monitoring Yellow Sticky Trap @ 25 sheet per ha placed at field + Pyriproxyfen 10% EC at ETL level 25 aphid/plant) @ 1ml /lit of water at 15 days interval as per need based	Variety seed, Fungicides	Rabi, 2023-24	2.0	05	Insect infestation (%), Siliques/plant (No.), Grains/silique (No.) and Yield (q/ha)

12	Onion	Plant Protection (PLP) - IDM	Improved variety NHRDF Red 3 + Seedling treatment with solution of (Mancozeb 64% WP + Metalaxyl 4% WP) @ 3 gm/lit of water at the time of transplanting + At the time of first disease appearance spraying at 15 days interval as need based	Variety seed, Fungicides	Rabi, 2023-24	2.0	10	Disease Incidence (%), Weight of Bulb (gm) and Yield (q/ha)
13	Sponge gourd	VR	High yielding and improved variety Kashi Rakshita (hyb.) with Bower technology + RDF (NPK - 100:80:60)	Seed, Bamboo and Wires	Kharif, 2023	2.0	10	Fruit/plant (No.), Fruit weight/plant (kg), Yield (q/ha)
14	Cowpea	VR	Early variety Kashi Nidhi + Sowing with Ridge method + Seed treatment Trichoderma + Rhizobium + PSB 10 ml/kg + ZSB + KSB 2.5 lit./ha. + Spray of Pseudomonas 5 lit/ha after 30 days + 50% RDF (NPK – 20:30:30)	Seed and Biofertilizers	Kharif, 2023	2.0	10	Pods/plant (No.), Branches/plant (No.), Yield/plant (kg), Yield (q/ha)
15	Brinjal	VR & IWM	High yielding variety Kashi Sandesh with Raised bed and 30 micron white silver Mulching + seed treatment Trichoderma + PSB @ 10 ml/kg seed + ZSB + KSB @ 2.5 lit/ha + Pseudomonas @ 5 lit/ha + 50% RDF (NPK - 90:40:40)	Seed and Biofertilizers	Rabi, 2023-24	2.0	10	Fruits/plant (No.), Branches/plant (No.), Fruit weight/plant (kg), Yield (q/ha)
16	Garlic	IWM & VR	Yamuna Safed 2 + Oxyfluorfen (23.5% EC) 750 ml/ha & Quizalofop (5% EC) 400 ml/ha combined application for weed management in Garlic after 35 days + Cycle Wheel Hoe	Cloves and Weedicides	Rabi, 2023-24	2.0	10	Weeds/sq. m. (No.), Cloves weight (gm), Yield (q/ha)
17	Blackgram	Organic Farming	Seed treatment Trichoderma + Rhizobium + PSB @ 10 ml/kg seed + Soil application with ZSB + KSB @ 2.5 lit/ha + Spray of Pseudomonas @ 5 lit/ha with ridge and furrow sowing method	Bio fertilizers	Kharif, 2023	2.0	05	Pod/plant (No.), Yield/plant (gm), Yield (q/ha)
18	Mustard	INM	Use of elementary Sulphur @ 5 kg/ha through spray after 40 DAS interval + MOP @ 50 kg/ha at the time of sowing	Sulphur and Potash	Rabi, 2023-24	2.0	05	Silique/plant (No.), Branches/plant (No.), Yield (q/ha)
19	Wheat	INM	Spraying of Nano Urea 1250ml/ha at 30 days after sowing and second spray 1250 ml/ha at 50-60 days after sowing	Nano Urea	Rabi, 2023-24	2.0	05	Tillers/plant (No), Grains/ear (No), Plant height (cm), Yield (q/ha)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	19	October & February	475
2	Farmers Training	38	Round the year	950
3	Media coverage	25	Round the year	Mass
4	Training for extension functionaries	15	Round the year	225
5	Sangosthi	19	Round the year	475

Details of FLD on Enterprises

Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer /demo.	Parameters identified
1	Blackgram	VR	Variety MU-02 + Ridge & Furrow + Trichoderma + Rhizobium + PSB + ZSB + KSB + Imazethapyr + Quinalphos + Imidacloprid + Mancozeb + Pseudomonas	Seed + Biofertilizers + Insecticide	Kharif 2023	20	50	Branches/plant (No.), Pods/plant (No.), Yield (q/ha)
2	Sesame	VR	Variety RT 351 + Line sowing + Seed treatment + Trichoderma + PSB + Soil treatment + ZSB + KSB + PSB + Insecticide + Fungicide + Pseudomonas spray	Seed + Biofertilizers + Insecticide	Kharif 2023	20	50	Branches/plant (No.), Capsules/plant (No.), Yield (q/ha)
3	Groundnut	VR	Variety RG 578 + Line sowing + Seed treatment + Trichoderma + PSB + Soil treatment + ZSB + KSB + PSB + Quinalphos + Mancozeb + Tebuconazole + Pseudomonas spray	Seed + Biofertilizers + Insecticide	Kharif 2023	10	25	Branches/plant (No.), Pods/plant (No.), Yield (q/ha)
4	Chickpea	VR	Under 10 year improved variety JG-12 + Timely Line sowing + Trichoderma + Rhizobium + PSB + KSB + ZSB + Bird Purcher + Insecticide	Seed + Biofertilizers + Insecticide	Rabi 2023	20	50	Branches/plant (No.), Pods/plant (No.), Yield (q/ha)
5	Mustard	VR	Under 10 years improved variety RH-406 + Timely Line sowing + Trichoderma + PSB + ZSB + KSB + Pseudomonas + Pendimethalin + Imidachloroprid	Seed + Biofertilizers + Insecticide	Rabi 2023	30	75	Branches/plant (No.), Siliques/plant (No.), Yield (q/ha)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	September & February	150
2	Farmers Training	20	Round the year	500
3	Media coverage	10	Round the year	Mass
4	Training for extension functionaries	5	Round the year	100

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	2	15	5	20	20	10	30	50
Resource Conservation Technologies	3	3	22	8	30	30	15	45	75
Integrated Farming	1	1	7	3	10	10	5	15	25
Water management	2	2	15	5	20	20	10	30	50
Seed production	6	6	42	18	60	60	30	90	150

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
technologies									
Women and child care	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	5	5	37	13	50	50	25	75	125
Integrated Disease Management	3	3	22	8	30	30	15	45	75
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-
TOTAL	8	8	59	21	80	80	40	120	200
VIII Fisheries									
Integrated fish farming	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site									
Vermi-compost production	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics									
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
GRAND TOTAL	37	37	269	101	370	370	185	555	925
(B) RURAL YOUTH									
Mushroom Production	2	6	15	5	20	20	10	30	50
Bee-keeping	-	-	-	-	-	-	-	-	-
Seed production	3	9	22	8	30	30	15	45	75
Planting material production	1	3	7	3	10	10	5	15	25
Vermi-culture	1	3	7	3	10	10	5	15	25
Value addition	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-
TOTAL	7	21	51	19	70	70	35	105	175
(C) EXTENSION PERSONNEL									
Productivity enhancement in field crops	2	2	15	5	20	20	10	30	50
Integrated Pest Management	4	4	30	10	40	40	20	60	100
Integrated Nutrient management	4	4	30	10	40	40	20	60	100
Protected cultivation technology	1	1	7	3	10	10	5	15	25
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	3	3	22	8	30	30	15	45	75
TOTAL	14	14	104	36	140	140	70	210	350

Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	3	3	22	8	30	30	15	45	75
Integrated Disease Management	4	4	30	10	40	40	20	60	100
Bio-control of pests and diseases	1	1	7	3	10	10	5	15	25
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-
TOTAL	8	8	59	21	80	80	40	120	200
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics									
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
GRAND TOTAL	39	39	286	104	390	390	195	585	975
(B) RURAL YOUTH									
Production of organic inputs	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
(C) EXTENSION PERSONNEL									
-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	F & FW	Importance of Green Manuring	1	7	3	10	10	5	15	25
July	F & FW	IWM in Kharif crops	1	7	3	10	10	5	15	25
July	F & FW	ICM in Kharif crops under natural farming	1	7	3	10	10	5	15	25

August	F & FW	Importance of Drainage in kharif crops and its method	1	7	3	10	10	5	15	25
October	F & FW	ICM in Rabi pulses crop	1	7	3	10	10	5	15	25
November	F & FW	IWM in Rabi crops	1	7	3	10	10	5	15	25
November	F & FW	Water Management in Rabi field crops	1	7	3	10	10	5	15	25
December	F & FW	ICM in Rabi oilseeds crop	1	7	3	10	10	5	15	25
January	F & FW	ICM in Rabi crops under natural farming	1	7	3	10	10	5	15	25
June	F & FW	Crop cultivation of Minor Millets	1	7	3	10	10	5	15	25
July	F & FW	Seed production of Soybean	1	7	3	10	10	5	15	25
July	F & FW	Crop cultivation of Blackgram	1	7	3	10	10	5	15	25
August	F & FW	Importance of crop diversification	1	7	3	10	10	5	15	25
October	F & FW	Selection of Rabi crop varieties	1	7	3	10	10	5	15	25
November	F & FW	Crop production of Mustard crop	1	7	3	10	10	5	15	25
November	F & FW	Crop cultivation of Fieldpea crop	1	7	3	10	10	5	15	25
December	F & FW	Importance of Chickpea cultivation	1	7	3	10	10	5	15	25
TOTAL	-	17	17	119	51	170	170	85	255	425
Horticulture										
March	F & FW	Production technology of Sponge gourd with bower system	1	7	3	10	10	5	15	25
May	F & FW	Training on Budding, Grafting and inarching in fruits crops	1	7	3	10	10	5	15	25
July	F & FW	Preparation of raised bed nursery vegetable crops and their management	1	7	3	10	10	5	15	25
July	F & FW	Production technology and Importance of moringa	1	7	3	10	10	5	15	25
July	F & FW	Production technology of Ginger & Turmeric	1	7	3	10	10	5	15	25
September	F & FW	Management of young plant Orchards	1	7	3	10	10	5	15	25
October	F & FW	Importance of nutritional garden in human diet	1	7	3	10	10	5	15	25
TOTAL	-	7	7	49	21	70	70	35	105	175
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July	F & FW	Integrated disease management of ginger	1	7	3	10	10	5	15	25
August	F & FW	Biological control of white grub in groundnut	1	7	3	10	10	5	15	25
August	F & FW	Integrated management of tobacco caterpillar in soybean	1	7	3	10	10	5	15	25
September	F & FW	Integrated management of leaf blight in colocasia	1	7	3	10	10	5	15	25
October	F & FW	Integrated management of pod borer in chickpea	1	7	3	10	10	5	15	25
November	F & FW	Integrated management of	1	7	3	10	10	5	15	25

		wilt in chickpea								
December	F & FW	Termite management in wheat	1	7	3	10	10	5	15	25
January	F & FW	Integrated management of aphid in mustard	1	7	3	10	10	5	15	25
TOTAL	-	8	8	56	24	80	80	40	120	200
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
April	F & FW	Importance of Soil Testing	1	7	3	10	10	5	15	25
June	F & FW	Nutrients management in Kharif crops	1	7	3	10	10	5	15	25
October	F & FW	Use of Bio-fertilizers and its importance	1	7	3	10	10	5	15	25
November	F & FW	STL based nutrient application	1	7	3	10	10	5	15	25
November	F & FW	Nutrients management in Rabi crops	1	7	3	10	10	5	15	25
TOTAL	-	5	5	35	15	50	50	25	75	125
GRAND TOTAL	-	37	37	259	111	370	370	185	555	925

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
May	F & FW	Importance of IFS for Bundelkhand region	1	7	3	10	10	5	15	25
July	F & FW	IWM in Kharif Pulse crops	1	7	3	10	10	5	15	25
August	F & FW	IWM in Kharif Oilseed crops	1	7	3	10	10	5	15	25
September	F & FW	Water Management in Kharif crops	1	7	3	10	10	5	15	25
September	F & FW	ICM in Kharif crops under natural farming	1	7	3	10	10	5	15	25
May	F & FW	Importance of Green manuring	1	7	3	10	10	5	15	25
October	F & FW	ICM of Rabi oilseed crops	1	7	3	10	10	5	15	25
October	F & FW	ICM of Rabi pulse crops	1	7	3	10	10	5	15	25
November	F & FW	IWM in Rabi crops	1	7	3	10	10	5	15	25
December	F & FW	Production technology of Wheat under natural farming	1	7	3	10	10	5	15	25
July	F & FW	Crop cultivation of Groundnut crops	1	7	3	10	10	5	15	25
October	F & FW	Safety of Harvesting time of Kharif crops	1	7	3	10	10	5	15	25
November	F & FW	Importance of Roughing at maturity stage	1	7	3	10	10	5	15	25
November	F & FW	Safety of storage of Kharif crops	1	7	3	10	10	5	15	25
October	F & FW	Crop cultivation on Rabi crops	1	7	3	10	10	5	15	25
November	F & FW	Natural farming on Rabi crops	1	7	3	10	10	5	15	25
December	F & FW	Seed production on Rabi crops	1	7	3	10	10	5	15	25
March	F & FW	Storage of Rabi crops	1	7	3	10	10	5	15	25
TOTAL	-	18	18	126	54	180	180	90	270	450
Horticulture										
May	F & FW	Production technology of	1	7	3	10	10	5	15	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Sponge gourd with bower system under natural farming								
June	F & FW	Layout & plantation of fruits	1	7	3	10	10	5	15	25
July	F & FW	Training on Budding, Grafting and inarching in fruits crops	1	7	3	10	10	5	15	25
July	F & FW	Preparation of raised bed nursery vegetable crops and their management	1	7	3	10	10	5	15	25
July	F & FW	Production technology of Ginger & Turmeric	1	7	3	10	10	5	15	25
October	F & FW	Production technology of vegetables under natural farming	1	7	3	10	10	5	15	25
November	F & FW	Importance of nutritional garden in human diet	1	7	3	10	10	5	15	25
November	F & FW	Production technology of Onion & Garlic	1	7	3	10	10	5	15	25
TOTAL	-	8	8	56	24	80	80	40	120	200
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
June	F & FW	Biological methods of seed treatments	1	7	3	10	10	5	15	25
August	F & FW	Integrated disease management in blackgram	1	7	3	10	10	5	15	25
September	F & FW	Leaf curl virus management in chilli	1	7	3	10	10	5	15	25
November	F & FW	Integrated management of shoot and fruit borer in brinjal	1	7	3	10	10	5	15	25
November	F & FW	Integrated management of leaf spot diseases of wheat	1	7	3	10	10	5	15	25
November	F & FW	Purple blotch disease management in Onion	1	7	3	10	10	5	15	25
December	F & FW	Integrated disease management in wheat	1	7	3	10	10	5	15	25
April	F & FW	Biological safe methods of storage grain pests	1	7	3	10	10	5	15	25
TOTAL	-	8	8	56	24	80	80	40	120	200
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
June	F & FW	Use of Soil Health card and its importance	1	7	3	10	10	5	15	25
June	F & FW	Use of Sulphur in oilseed crops	1	7	3	10	10	5	15	25
July	F & FW	Importance & Application of Bio-digester	1	7	3	10	10	5	15	25
October	F & FW	Importance of Vermi compost	1	7	3	10	10	5	15	25
November	F & FW	STL based nutrient application	1	7	3	10	10	5	15	25
TOTAL	-	5	5	35	15	50	50	25	75	125
GRAND TOTAL	-	39	39	273	117	390	390	195	585	975

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Client ele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
October	RY	Importance of Natural farming	3	7	3	10	10	5	15	25
February	RY	Production of organic inputs	3	7	3	10	10	5	15	25
July	RY	Seed production on Blackgram crops	5	7	3	10	10	5	15	25
November	RY	Seed production on Fieldpea crops	5	7	3	10	10	5	15	25
Horticulture										
October	RY	Preparation of raised bed nursery of vegetable crops and their management	3	7	3	10	10	5	15	25
August	RY	Training on Budding, Grafting and inarching in fruits crops	3	7	3	10	10	5	15	25
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
December	RY	Mushroom Production	5	7	3	10	10	5	15	25
January	RY	Perl Farming	5	7	3	10	10	5	15	25
March	RY	Lac Cultivation	5	7	3	10	10	5	15	25
December	RY	Bee Keeping	5	7	3	10	10	5	15	25
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
September	RY	Importance & Production method of Vermi compost	3	7	3	10	10	5	15	25
TOTAL	-	11	45	77	33	110	110	55	165	275

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	IS	Production technology of Kharif crops under natural farming	1	7	3	10	10	5	15	25
October	IS	Production technology of Rabi crops under natural farming	1	7	3	10	10	5	15	25
June	IS	Seed production of Kharif crops under Minor Millets	1	7	3	10	10	5	15	25
November	IS	Seed production of Rabi crops	1	7	3	10	10	5	15	25
Horticulture										
August	IS	Protected cultivation of	1	7	3	10	10	5	15	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Tomato under Net house with stacking method								
September	IS	Crop residue management of vegetable crops	1	7	3	10	10	5	15	25
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July	IS	Biological control of disease and pest in major Kharif crops	1	7	3	10	10	5	15	25
September	IS	IDM & IPM in Vegetables	1	7	3	10	10	5	15	25
October	IS	IDM & IPM in Fruits	1	7	3	10	10	5	15	25
November	IS	Biological control of disease and pest in major Rabi crops	1	7	3	10	10	5	15	25
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
May	IS	Importance of Summer Deep Ploughing	1	7	3	10	10	5	15	25
July	IS	Role of essential Nutrients	1	7	3	10	10	5	15	25
October	IS	Fertilizer management in Rabi crops	1	7	3	10	10	5	15	25
December	IS	Use of liquid fertilizers	1	7	3	10	10	5	15	25
TOTAL	-	14	14	98	42	140	140	70	210	350

Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Preparation of Natural farming components	Natural farming	2	F & FW / RY	1	7	10	3	5	10	15	25	NGO

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Lectures delivered as resource persons	50	1200	300	1500	20	10	30	1220	310	1530
Newspaper coverage	100	Mass								
Radio talks	10	Mass								
TV talks	12	Mass								
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	10	8000	2000	10000	0	0	0	8000	2000	10000
Advisory Services	50	12000	3000	15000	1500	500	2000	13500	3500	17000
Scientific visit to farmers field	50	300	200	500	20	10	30	320	210	530
Farmers visit to KVK	60	1500	500	2000	150	50	200	1650	550	2200
Diagnostic visits	50	300	200	500	20	10	30	320	210	530
Exposure visits	3	100	50	150	15	5	20	115	55	170
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	2	70	30	100	7	3	10	77	33	110
Animal Health Camp	2	70	30	100	15	5	20	85	35	120
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	3	70	30	100	7	3	10	77	33	110
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	2	25	25	50	5	5	10	30	30	60
Mahila Mandals Conveners meetings	3	5	65	70	3	7	10	8	72	80
Celebration of important days (specify)	10	300	200	500	50	30	80	350	230	580
Pradhanmantri phasal beema yojana	2	70	30	100	7	3	10	77	33	110
TOTAL	460	27210	7860	35070	1999	731	2730	29209	8591	37800

Target for Production and supply of Technological products

Seed Materials

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
OILSEEDS	-	-	-
PULSES	Blackgram	Mukundra (MU-02), Kota 3, Kota 4	300
	Fieldpea	IPFD 12-2	350
	Chickpea	JG 24, JG 36	
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-
TOTAL	-	-	650

Planting Materials

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady	1000
	Dragon Fruit	Red Flesh	200
	Mango	Langda, Dusscheri	200
	Mulberry	Red Mulberry	300
VEGETABLES	Drumstick	PKM-1	1000
	Tomato	Kashi Abhiman, US Agri 1504, Abhilash	5000
	Brinjal	Kashi Sandesh, Kashi Taru, Kashi Prakash	5000
	Chinese Cabbage	Spring	1000
	Red Cabbage	Red Express, Ruby King	1000

ORNAMENTAL CROPS	Knol Khol	White Vienna, Large Green	1000
	Broccoli	Calabrese	1000
	Capsicum	Asha, Jaya	2000
	Champa	Pink Champa, Nag Champa	200
	Madhu Kamini	Madhu Kamini White Flower	100
FLOWER CROPS	Marigold	Indus - Pushpraj	1000
TOTAL	-	-	20000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
BIOFERTILIZERS				
1	Vermicompost	-	-	1500
2	NADEP	-	-	1000
BIO PESTICIDES				
1	Dasparni arkl	-	-	200 lit.
2	Pesticides	-	-	500 lit.

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Buffalo	Murrah – Artificial Insemination	25	-
SHEEP AND GOAT	Goat	Sirohi Bucks	10	-
POULTRY	Poultry	Kadakhnath & Narmada Nidhi (Birds)	2000	-
FISHERIES	Fisheries	Fingerlings - Katla, Rahu, Mragil for 2 Ponds	5000	-

Literature to be Develop/Publish

KVK News Letter

Date of Start	Periodicity	Number of copies to be published
April – June	-	500
July – September	-	500
October – December	-	500
January – March	-	500

Details of Electronic Media to be produce

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD	Agricultural Technological Intervention	2

Success stories/Case studies identified for development as a case: 04 (no.)

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Line department and Interface
2	Rural Youth	Line department and Interface
3	In-service personnel	Line department and Interface
4	Methodology for identifying OFTs/FLDs	Line department and Interface
5	Matrix ranking	Line department and Interface

Field activities

Name of villages identified for adoption with block name:

S. No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Badagaon	Tikamgarh	30 Km
2	Nanni Tehri	Tikamgarh	32 Km
3	Para Khas	Tikamgarh	26 Km
4	Soriyana	Tikamgarh	25 Km
5	Anantpura	Tikamgarh	10 Km
6	Nagada	Tikamgarh	30 Km
7	Gudanwara	Tikamgarh	30 Km
8	Ganeshganj	Tikamgarh	2 Km
9	Heerapura	Tikamgarh	15 Km
10	Ranipura	Tikamgarh	15 Km
11	Kanti	Tikamgarh	25 Km
12	Kodiya	Jatara	40 Km
13	Hasgora	Jatara	25 Km
14	Nandanpur	Jatara	30 Km
15	Simariya	Jatara	45 Km
16	Kandwa	Jatara	40 Km
17	Lidhora Tal	Jatara	47 Km
18	Dor	Jatara	30 Km
19	Digora	Jatara	30 Km
20	Dargay Kala	Jatara	45 Km
21	Guda Nadi	Jatara	44 Km
22	Muhara	Jatara	50 Km
23	Bijrotha	Jatara	54 Km
24	Piprat	Jatara	36 Km
25	Shyamni	Jatara	54 Km
26	Ladwari	Baldevgarh	23 Km
27	Khushipura	Baldevgarh	25 Km
28	Guna	Baldevgarh	40 Km
29	Mahobia	Baldevgarh	65 Km
30	Chandrapura	Baldevgarh	43 Km
31	Baisa	Baldevgarh	48 Km
32	Mundikhera	Baldevgarh	53 Km
33	Majara Khera	Baldevgarh	56 Km
34	Pahadi Bujurg	Palera	63 Km
35	Nuna	Palera	65 Km
36	Purenia	Palera	70 Km
37	Bamhori Kala	Palera	68 Km
38	Kharo	Palera	46 Km
39	Naiguan	Niwari	86 Km
40	Nayakheda	Niwari	75 Km
41	Luharguan	Prithvipur	70 Km

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2015

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mrada Parikshak – 10 Parameters	01	Normal
2	Mrada Parikshak – 12 Parameters	01	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	50	-
Water Samples	-	-	-	-

Total	500	500	50	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
ICAR - NICRA	Trainings, Demonstration and Extension Activities
ICAR – Seed Hub	Trainings, Demonstration and Extension Activities
MANREGA, Jila Panchayat	Trainings, Demonstration and Extension Activities
Agriculture Department – ATMA	Trainings, Demonstration and Extension Activities
Animal Husbandry Department	Trainings, Demonstration and Extension Activities
Soil Conservation Department	Trainings, Demonstration and Extension Activities
Irrigation Department	Trainings, Demonstration and Extension Activities
Horticulture Department (NHM)	Trainings, Demonstration and Extension Activities
Agricultural Engineering Department	Trainings, Demonstration and Extension Activities
Women Empowerment & Child Development Department	Trainings, Demonstration and Extension Activities
District NGOs	Trainings, Demonstration and Extension Activities

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district : Yes

Name of Programme	Nature of linkage
ATMA, Agriculture Department	Trainings, Demonstration, Extension Activities and Interface

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
NHM, Horticultural Tikamgarh	Trainings, Demonstration, Extension Activities and Interface

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries	Targeted Area/Coverage
Feb.	World Pulse Crop Day 10th Feb. (Seed Hub)	50	-
March	International Women Day, 8th March	50	-
April	International Seed Day, 26th April	50	-
May	Honey Bee Day, 20th May	50	-
June	World Milk Day, 1st June	50	-
June	World Environmental Day, 5th June	50	-
June	Seed Production Programme (Seed Hub - Kharif)	20	35.0 ha
July	ICAR Foundation Day, 16th July	50	-
July	Demonstration under NICRA Project (Kharif)	200	100 ha
Oct.	Women Farmer Day, 15th Oct	50	-
Oct.	Seed Production Programme (Seed Hub - Rabi)	20	35.0 ha
Nov.	Demonstration under Natural Farming (Wheat)	08	3.2 ha
Nov.	Demonstration under NICRA Project (Rabi)	20	100 ha
Dec.	National Farmer Day, 23rd Dec.	50	-
Dec.	World Soil Health Day, 5th Dec.	50	-
Jan-Dec.	Trainings & Extension Activities Natural Farming	2000	-
Jan-Dec.	Trainings & Extension Activities under NICRA Project	2500	-
Jan-Dec.	Swachhta Activities, Parthenium Week, Jal Shakti Abhiyan, etc.	2500	-

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 2560 Sq. m.

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 2029, JS 2034, JS 2069, JS 2098, JS 9560, JS 9752, RVS 76, RVS 2001-04	8 varieties	160
Sesame	Kharif	GT – 4, JTS 8, RT 351, TKG 22, TKG 55, TKG 306, TKG 308,	7 varieties	140
Blackgram	Kharif	Azad 1, Azad 3, IPU 02-43, IPU 13-1, IPU 94-1, IPU 1026, IPU 1102, MU-02,	10 varieties	200

		Pratap Urd-1, Shekhar 2,		
Groundnut	Kharif	RG 578, GJG 32, ICGV 350	3 varieties	60
Greengram	Kharif	IPM 2-1, PDM 11, PDM 139, TM 37	4 varieties	80
Pigeonpea	Kharif	Rajeev Lochan, TJT 501	2 varieties	40
Pearl Millets (Bajra)	Kharif	PHB 2884	1 variety	20
Sorghum	Kharif	CSV 27	1 variety	20
Cluster Beans	Kharif	HG 2-20	1 variety	20
Kodo	Kharif	JK 137	1 variety	20
Finger Millet	Kharif	RAU 8	1 variety	20
Tomato	Kharif	Arka Samrat, Kashi Vishesh, Kashi Anupam	3 varieties	60
Brinjal	Kharif	Kashi Sandesh, Kashi Taru, Kanahiya (Sungro)	3 varieties	60
Onion	Kharif & Rabi	AFLR, Bheema Shakti, Bheema Super	3 varieties	60
Chilli / Capsicum	Kharif & Rabi	Disha, Kashi Anmol, Asha	3 varieties	60
Mustard	Rabi	RVM-2, Rohani, Giriraj, Pusa Agarani, Pusa Jai Kishan, Urvarsi, Arravali, Pusa Bold, RH 406, RH 749,	10 varieties	200
Chickpea	Rabi	JG 11, JG 12, JG 14, JG 16, JG 24, JG 36, JG 130, JG 315, NVG 47, RVG 201, RVG 202	11 varieties	220
Fieldpea	Rabi	IPFD 12-2, IPFD 10-12	2 varieties	40
Wheat	Rabi	GW 322, HD 4728, HI 1544, HI 1605, HI 1633, HI 1634, HI 1636, HI 1650, HI 1655, HI 8737, HI 8759, HI 8823, HI 8826, HI 8830, Lok-1	15 varieties	300
Lentil	Rabi	IPL 316, L 4727, RVL 31	3 varieties	60
Barley	Rabi	DWRB 137, RD 2899	2 varieties	40
Quinoa	Rabi	White Quinoa	1 variety	20
Linseed	Rabi	JLS 9 , JLS 27, JLS 66, JLS 67, JLS 73, JLS 79	6 varieties	120
Pea	Rabi	Kashi Nandi, Kashi Uday	2 varieties	40
Rare Vegetables	Rabi	Chinese Cabbage, Red Cabbage, Savoy Cabbage, Celery, Lettuce, Knol Khol, Broccoli, Bok Choy, Red & Yellow Capsicum, etc.	25 varieties	500

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /Details	Area (Sq m)	Output /Production
Net House	Vegetable Production	01	10000 Rs.
Poultry	25 Kadaknath Chicks	01	25000 Rs.
NADEP	50 q.	01	5000 Rs.
Azolla	Under Cultivation	01	-
Vermi Compost	50 q.	01	5000 Rs.
Goatry	2 No.	01	20000 Rs.
Mushroom	15 kg.	01	1500 Rs.
Natural Farming Demo	4 No.	01	2000 Rs.
Fodder Unit	5 q.	01	5000 Rs.
Fisheries	1000 fingure lings	01	100 No.
Pearl Faming	Under Construction	01	-
Lemon Grass and Oil Extraction Plant	Under Cultivation	01	-
Medicinal	Under Cultivation	01	-
Bio Fortified varieties Demo	Under Cultivation	01	-
Rare Vegetables Unit	Under Cultivation	01	-

ANNUAL ACTION PLAN 2023

KVK - Umaria

Year of sanction: 2007-08

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. K. P. Tiwari	KVK, Umaria	9425888060	kvkumaria@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. K.P. Tiwari	Senior Scientist & Head	Agronomy	7 th pay scale	22/9/14	22/09/2014	9425888060	kvkumaria@rediffmail.com	
2	Subject Matter Specialist	Dr Vinita Singh	Scientist	Home Science	7 th pay scale	07/02/2007	07/02/2007	8707610659	kvkumaria@rediffmail.com	
3	Subject Matter Specialist	Dr. R.R. Singh	Scientist	LPM	7 th pay scale	13/10/11	13/10/2011	7354434569	kvkumaria@rediffmail.com	
4	Subject Matter Specialist	Vacant		-						
5	Subject Matter Specialist	Vacant		-		-	-			
6	Subject Matter Specialist	Vacant		-		-	-			
7	Subject Matter Specialist	Vacant		-		-	-			
8	Programme Assistant	Sh. K.K. Rana	Programme Assistant T-4	Extension Education	7 th pay scale	28/01/2019	28/01/2019	9300383906	kvkumaria@rediffmail.com	
9	Programme Assistant	Shri. A.K Rajak	Programme Assistant –T5	Computer Science	7 th pay scale	8/04/2008	08/04/2008	9424682935	kvkumaria@rediffmail.com	
10	Farm Manager	Shri. Kundan Muwel	Programme Assistant T-4	Gen.& Plant Breeding	7 th pay scale	19/08/2019	19/08/2019	9589637049	kvkumaria@rediffmail.com	
11	Assistant	Vacant		-		-				
12	Jr. Stenographer / Comp. Operator	Vacant		-						
13	Driver	Shri Raju. Vishwakarma	Driver	-	7 th pay scale	10/07/08	10/07/08	9407159543	kvkumaria@rediffmail.com	
14	Driver	Sandeep Chourasiya	Driver	-	7 th pay scale	10/07/08	10/07/08	8718018452	kvkumaria@rediffmail.com	

										
15	Supporting staff	Vacant		-						
16	Supporting staff	Vacant		-						

1.3 Total land with KVK (in ha):.....20.0..

S. No.	Item	Area (ha)
1	Under Buildings	0.8
2	Under Demonstration Units	2.0
3	Under Crops	5.0
4	Orchard/Agro-forestry	1.2
5	Others (specify) Waste land	11
Total		20.0

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	30/05/2014	525	6768000	-	-	-
2	Farmers Hostel	ICAR	30/05/2014	325	4322000	-	-	-
3	Staff Quarters (6)	ICAR	30/05/2014	400	5000000	-	-	-
4	Demonstration Units (2)	ICAR	30/6/2017	1500	1424850	-	-	-
5	Fencing	Not avail	-	-	-	-	-	-
6	Rain Water harvesting system	Not avail	-	-	-	-	-	-
7	Threshing floor	Not avail	-	-	-	-	-	-
8	Farm godown	Not avail	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2011	493267	-	Not working condition
Motor Cycle 2	2009	49348	57900	Not working condition
Bolero(Jeep)	2017	604413	96000	Working
Other (Pl. specify)	-			

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2011	44765	Working condition
Xerox Machine	2016	75525	Working condition
Video Camera	2016	49200	Not Working condition
Computer, Laser Printer	2015	13600	Working condition
Inverter 600 VA (2)	2008	8490	working condition
Inverter Battery (2)	2008	9940	Working condition
LED TV 49 Inches-1	2017	75000	Working condition
LED TV 55 Inches-2	2020	55000	Working condition
LED –Projector-1	2009	40000	Working condition
LED-Projector-2	2011	45000	Working condition

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15 June 2023
2	15 November 2023

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1 Agriculture	Paddy-cult in cereal, Pigeonpea and Chickpea in pulses and sesame – mustard in oilseed are major crops of Kharif and Rabi
2	AES – 2Ag. +Dairy	Indigenous breeds of dairy animals are rearing with agriculture
3	AES – 3 NTFS (Collection of forest produce)	Mahua, Chironji, Harra, Bahera and Aonla are the major NTFS collected.
4	AES – 4 Vegetable	Growing vegetables mostly in backyard
5	AES – 5 Backyard Poultry	Indigenous breeds
6	AES – 6 Goatry	Indigenous breeds

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone (Zone-II Northern Hill Zone of Chhattisgarh)	Characteristics
1	AES – 1 Zone – XI Hot sub humid ecoregion with red and yellow soil (Eastern plateau- Chhattisgarh Region)	Characterized by undulating topography, denuded hills, plateau, river valleys, high lands of the Eastern Ghats and wide basins of Chhattisgarh. The annual rainfall varies from 100-18cm. The predominant soil groups are mixed red and black, red and yellow, red sandy, laterite, black and alluvial (riverine and coastal)

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Hot sub humid ecoregion with red and yellow soil (Eastern plateau- Chhattisgarh Region)

Strength	Weakness	Opportunities	Threats
- Ample amount of Bio diversity present in the district - Most of the crops are organically produced	- Poor water holding capacity of soil with severe to moderate soil erosion - Low organic content in soil resulting in poor soil fertility - Use of fertilizer is very low - Most of the cattle breed is indigenous	- Production of diversified crops may be taken including tuber crops - Suitable for natural farming/ organic farming - Suitable for medicinal and aromatic crops	Severe problem of wild animals

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	450.329
Forest	236.714
Waste Land	28.766
Other than cultivated area	-
Cultivable waste and alkaline land	-
Pastures	-
Bushes	-
Current Fallow	14.350
Other Fallow	14.416
Agricultural Land	110.892
Area Sown	169.730
Kharif	95.770
Rabi	72.960
Zaid	1.00
Cropping Intensity	153

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	2216
2	Well	7279

3	Tube well	16063
4	Ponds	619
5	Others	9421

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light and sandy soil	Soils of undulating, hill range with very thin to deep, well drained, moderate to severe soil erosion	7 8.880 (75%)
2	Medium and loamy soil	Soil of undulating, slightly deep to deep, well drained loamy with moderate erosion	15.775(15%)
3	Heavy and Black soil	Deep, well drained clay to loamy soil, moderate erosion	10.521(10%)
4			

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
Kharif cereal				
1	Paddy	76600	-	41.50
2	Maize	5650	-	27.10
3	Kodo-kutki	5140	-	7.92
4	Sorgum		-	
Rabi cereal				
1	Wheat	70010	-	32.16
2	Barley	50	-	9.98
Kharif Pulses				
1	Pigeon pea	8700	-	12.70
2	Black gram	3900	-	7.35
3	Green gram	90	-	6.10
Rabi Pulses				
1	Gram	12210	-	17.10
2	Pea	930	-	7.26
3	Lentil	3970	-	11.92
Kharif Oilseed				
1	Sesame	6600	-	4.73
2	Niger	800	-	4.65
3	Soybean	940	-	7.65
Rabi Oilseed				
1	Mustard	5300	-	9.42
2	Linseed	1680	-	6.96
Fruits crops (Mango, Guava) etc		4806	742640	154.5
Vegetables crops (Okra, Chile, bringle, Tomato, potato , onion etc.)		14480	2049580	141.5
Spices crops (coriander , Fenugreek)		4608	350120	75.98
Flowers (Marigold, rose)		114	16120	141.4
Medicinal		83	1280	15.42

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	28.0	28.3	3.2
Feb, 22	13.2	33.7	4.8
Mar, 22	0.00	40.6	10.7
Apr, 22	0.00	43.9	18.4
May, 22	6.8	40.5	21.9
Jun, 22	45.6	45.0	20.0
July, 2022	334.57	35.8	22.2
Aug., 2022	496.95	35.0	20.2
Sept., 2022	167.51	34.9	21.7

Oct. 2022	97.12	34.9	12.5
Nov. 2022	0.00	32.8	6.4
Dec. 2022	0.00	31.8	5.4

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	330607	...119.49. MT.	0.964 kg
Buffalo	51632		 Kg
Sheep			
<i>Crossbred/ Indigenous</i>	3969	 MT wool	 Kg
Goats	97151	0.71 MT	 Kg
Pigs Crossbred/ Indigenous	2146	---	---
Rabbits	-		
Poultry			
Hens	44668	46.40 Lakh eggs	34eggs/ bird/yr
Turkey and others	-	-	-
Category	Area	Production	Productivity
Fish (rural ponds)	1697.14. (ha)	----- Q/ year	3601.35 Q/ year
Fish (irrigation ponds)	2110.97 (ha)	----- Q/ year	388.29 Q/ year

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bandhavgarh	Manpur	Saraswahi Barbaspur	Paddy, Pigeon pea, Sesame- Wheat, Chick pea, Mustard Livestock Poultry Goatry NTFS (Mahua) Vegetables in backyard	Low yield due to old variety seed, improper pest and disease management, Inadequate use of fertilizers, high seed rate, untimely use of weed control measures etc. Low milk yield due to Rearing of indigenous cattle breed	• Varietal Diversification- Availability of quality seed through seed production technology and Seed replacement. • Technological diversification • Crop diversification, • Integrated farming system • INM • IPM • Promotion of Natural farming • Strengthen of linkage between farmer's and extension system • Farm mechanization and drudgery reduction • Integrated livestock management, • Promotion of agriculture based enterprises for farm women • Development of rural entrepreneurship for income and employment generation like Bee Keeping and mushroom cultivation, processing & value addition of Mahua
2	Bandhavgarh	Manpur	Bharauli			
3	Pali	Pali	Barhai			
4	Chandiya	Karkeli	Tali			

Priority / Thrust areas

S. No.	Particulars
1.	Varietal Diversification- Availability of quality seed through seed production technology and Seed replacement
2.	Technological diversification
3.	Crop diversification
4.	Integrated farming system
5.	INM
6.	IPM
7.	Promotion of Natural farming
8.	Strengthen of linkage between farmer's and extension system
9.	Farm mechanization and drudgery reduction
10.	Integrated livestock management
11.	Promotion of agriculture based enterprises for farm women
12.	Development of rural entrepreneurship for income and employment generation like Bee Keeping and mushroom cultivation, processing & value addition of Mahua

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	251	16	245

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	1500	101	3000

Seed Production (Qtl.)	Planting material (Nos.)
10	46000

Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Diversification	Black gram	Low yield of Black gram due to use of local varieties	Assessment of Variety IPU-2-43 of black gram in summer season					
		Pigeon pea	Low yield of Pigeon pea crop due to effect of frost in long duration varieties	Assessment of early maturing variety BDN-711 of Pigeon pea		ICM in Pigeon pea	ICM in kharif crops		
		Kodo	Low yield due to use of old and indigenous variety		Demonstration of improved variety JK-98 of Kodo millet			Awareness prog	Seed
		Kutki	Low yield due to use of old and indigenous variety		Demonstration of improved variety JK-36 of Kutki			Awareness prog	Seed
		Soybean	Use of low yielding disease susceptible variety of Soybean		Demonstration of improved variety JS 20-98 of Soybean				Seed
		Black rice	Use of varieties low in protein and other nutrients		Demonstration on cultivation of Black rice				Seed
		Mustard	Low yield		Demonstration of variety RH 0479 of Mustard	ICM in Mustard	ICM in rabi crops	Field day	Seed
		Sesame	Low yield		Demonstration on Sesame	ICM in Sesame		Field day	Seed
2	Technological diversification	Pigeon pea	Low yield		Demonstration on pigeon pea with full package & practices under NFSM	ICM in Pigeon pea		Field day	Seed
		Chick pea	Low yield		Demonstration of variety JG-14 of Gram with full package & practices under NFSM	ICM in Chick pea		Field day	Seed
3	Crop	Sorghum	-	Assessment of Sorghum		Production		Aware	Seed

	diversification			variety CSH-30 as a new crop for crop diversification		technology of Jowar		ness prog	
		Groundnut	-	Assessment of improved variety – TG-37-A of Groundnut as new crop for crop diversification		Production technology of Groundnut			Seed
4	Integrated farming system					IFS for doubling farmers income Profitable cropping systems for DFI			
5	INM					Soil fertility management under natural farming	Production and use of organic inputs		
6	IPM					IPM in major kharif crops IPM in major rabi crops			
7	Promotion of Natural farming	Paddy		Assessment of natural farming components in Paddy		Preparation technique of natural farming components for nutrient management	Natural farming	Aware ness prog	
		Chick pea		Assessment of natural farming components in Chick pea		Preparation technique of natural farming components for plant protection		Aware ness prog	
		Paddy	Higher cost of	Assessment of adaption					

			cultivation as Farmers use chemical farming	of natural farming system in paddy cultivation					
8	Strengthen of linkage between farmer's and extension system	Kisan Sarthi	Lack of knowledge about crop advisories	Assessment of Kisan Sarthi agri – information system in adoption of improved production technology of pulse crop					
9	Farm mechanization and drudgery reduction	Paddy	Low returns due to high cost of agri. practices	Assessment of direct sowing of seed in Paddy					Seed
		Wheat	High input cost		Demonstration on Zero Tillage sowing of wheat in paddy- wheat cropping system				Seed
		Pigeon pea	Problem of water logging and high seed rate due to broadcast sowing.	Assessment of ridge furrow system sowing of pigeon pea				Awareness prog.	Seed
10	Nutritional security	Paddy	High magnitude of malnutrition and low immunity among farm families	Assessment of bio-fortified variety of Paddy – CR Dhan 310	Demonstration on kitchen gardening	Establishment of kitchen gardening	Kitchen gardening		Seed, Planting material
11	Integrated livestock management	Goatry	Poor growth in goat kids	Assessment of growth performance of non-descript goat (kids) supplemented with concentrate mixture under field condition	Demonstration of Probiotic Biovet YC gold feeding to goat kids to increase body weight				
		Dairy	Unavailability of adequate feed for dairy animals	Assessment of concentrate pelleted feed for milch animals to enhance milk production	Demonstration of De-oiled mahua seed cake for feeding to lactating buffalo to increase milk yield Demonstration of Azolla for feeding to lactating buffalo to increase milk yield Demonstration on Fodder	Dairy management Feed management in dairy animals	Livestock feed and fodder production		

					Berseem variety JB-9 for milch animals				
		Goatry	Less income due to rearing of indigenous breed of goat	Assessment of Dual purpose goat breed Sirohi for breed improvement					
		Poultry	Low egg and meat production due to rearing of indigenous breed	Assessment of dual purpose colored bird Narmada nidhi for backyard poultry		Poultry feed management Rearing of dual purpose poultry breed			Chicks
12	Development of rural entrepreneurship for income and employment generation like Bee Keeping and mushroom cultivation, processing & value addition of Mahua and millets, Floriculture	Mahua	Low quality due to collection on ground	Assessment of improved technique of collection of mahua flower (in green net)		Vermi-compost production Nursery raising for income generation Entrepreneurship development among rural youth		Awareness prog.	
		Mahua	Low price of mahua flower due to poor quality	Assessment of improved technique of drying and storage of mahua flower for better quality and increased self life		Processing and value addition in mahua			
		Millets	No value addition of millets , low price due to direct sale	Assessment of millet value addition in the form of malted multi millet mix for income generation		Preparation of recipes from millet	Importance and use of millets	Awareness prog.	
		Marigold	Low income of farm women		Demonstration on marigold cultivation for income generation by farm women	Marigold production			Seed

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal assessment	0	0	2	0	0	0	0	0	0	2
Crop diversification	1	1	0	0	0	0	0	0	0	2
Natural farming	1	1	0	0	0	0	0	0	0	2
RCT	1	1	0	0	0	0	0	0	0	2
Nutritional security	1	0	0	0	0	0	0	0	0	1
PHM	0	0	0	2	0	0	0	0	0	2
Income generation	1	0	0	0	0	0	0	0	0	1
Agril. Ext.	0	0	0	0	0	0	0	0	0	2
TOTAL	5	3	2	2	0	0	0	0	0	14

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Feed management	1	0	0	1	0	0	0	02
Breed improvement	0	1	0	1	0	0	0	02
TOTAL	1	1	0	2	0	0	0	04

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Crop – Black gram	
Title of on farm trial	Assessment of Variety IPU-2-43 of black gram in summer season	
Problem diagnosed	Low yield of Black gram due to use of local varieties	
Farmers' Practices	Use of variety – JU-2	
Details of technologies selected for assessment	T ₁	Use of variety – JU-2
	T ₂	Growing HYV - IPU-2-43
Source of technology	IIPR-Kanpur	
Plot size	350m ²	
No. of farmers	05	
Total cost	1500	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-2

Crop / Enterprise	Crop – Pigeon pea	
Title of on farm trial	Assessment of early maturing variety BDN-711 of Pigeon pea	
Problem diagnosed	Low yield of Pigeon pea crop due to effect of frost in long duration varieties	
Farmers' Practices	Use of variety – Asha (ICPL 87-119)	
Details of technologies selected for assessment	T ₁	Use of short duration variety – BDN -711
	T ₂	
Source of technology	IIPR, Kanpur	
Plot size	1000 m ²	
No. of farmers	05	
Total cost	750	
Critical input	Seed	

Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	

OFT-3

Crop / Enterprise	Crop - Sorghum	
Title of on farm trial	Assessment of Sorghum variety CSH-30 as a new crop for crop diversification	
Problem diagnosed	-	
Farmers' Practices	No cultivation of sorghum	
Details of technologies selectedfor assessment	T ₁	No cultivation of sorghum
	T ₂	Introduction of sorghum variety –CSH-30
Source of technology	IIMR, Hyderabad	
Plot size	1000 m ²	
No. of farmers	10	
Total cost	3000	
Critical input	Seed	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation		

OFT-4

Crop / Enterprise	Crop - Groundnut	
Title of on farm trial	Assessment of improved variety – TG-37-A of Groundnut as new crop for crop diversification	
Problem diagnosed	-	
Farmers' Practices	No cultivation of Groundnut	
Details of technologies selectedfor assessment	T ₁	No cultivation of Groundnut
	T ₂	Introduction of high yielding variety – TG-37-A of Groundnut
Source of technology	Trombay, Mumbai	
Plot size	200m ²	
No. of farmers	10	
Total cost	3000	
Critical input	Seed	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation		

OFT- 5

Crop / Enterprise	Crop – Paddy	
Title of on farm trial	Assessment of natural farming components in Paddy	
Problem diagnosed		
Farmers' Practices	Application of chemical fertilizers	
Details of technologies selectedfor assessment	T ₁	Application of chemical fertilizers
	T ₂	Use of Beejamrit +Jeewamrit (20,40,60 DAS)+ Ghanjeevamrit (200+100kg/acre at sowing and flowering stage respectively) + Use of Neemastra for plant protection
Source of technology	Gujarat	
Plot size	2000 m ²	
No. of farmers	05	
Total cost	12500	
Critical input	Various components of natural farming	

Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	

OFT- 6

Crop / Enterprise	Crop – Chick pea	
Title of on farm trial	Assessment of natural farming components in Chick pea	
Problem diagnosed	Low returns due to high cost of input	
Farmers' Practices	Application of chemical fertilizers	
Details of technologies selected for assessment	T ₁	Application of chemical fertilizers
	T ₂	Use of Beejamrit +Jeewamrit (20,40,60 DAS)+ Ghanjeevamrit (200+100kg/acre at sowing and flowering stage respectively) + Use of Neemastra for plant protection
Source of technology	Gujarat	
Plot size	2000 m ²	
No. of farmers	05	
Total cost	12500	
Critical input	Various components of natural farming	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation		

OFT- 7

Crop / Enterprise	Crop - Paddy	
Title of on farm trial	Assessment of direct sowing of seed in Paddy	
Problem diagnosed	Low returns due to high cost of transplanting, labour cost	
Farmers' Practices	Use of paddy nursery transplanting method	
Details of technologies selected for assessment	T ₁	Use of paddy nursery transplanting method
	T ₂	Direct seeding of Paddy through seed drill
Source of technology	JNKVV, Jabalpur	
Plot size	1300m ²	
No. of farmers	06	
Total cost	6000	
Critical input	Seed + Seed drill sowing	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation		

OFT- 8

Crop / Enterprise	Crop	
Title of on farm trial	Assessment of ridge furrow system sowing of pigeon pea	
Problem diagnosed	Problem of water logging and high seed rate due to broadcast sowing.	
Farmers' Practices	Sowing in Flat bed (Variety TJT 501)	
Details of technologies selected for assessment	T ₁	Sowing in Flat bed (Variety TJT 501)
	T ₂	Sowing in Raised bed (Variety TJT 501)
Source of technology	CIAE, Bhopal	
Plot size	2000 m ²	
No. of farmers	05	
Total cost	1250	
Critical input	Seed	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation		

OFT- 9

Crop / Enterprise	Crop - Paddy	
Title of on farm trial	Assessment of bio-fortified variety of Paddy – CR Dhan 310	
Problem diagnosed	High magnitude of malnutrition and low immunity among farm families	
Farmers' Practices	Use of variety MTU1010/IR 64	
Details of technologies selected for assessment	T ₁	Use of variety MTU1010/IR 64
	T ₂	Use of variety- CR Dhan 310
Source of technology	CRRI, Cuttack	
Plot size	2000m ²	
No. of farmers	05	
Total cost	3750	
Critical input	Seed	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation		

OFT- 10

Crop / Enterprise	Enterprise	
Title of on farm trial	Assessment of improved technique of collection of mahua flower (in green net)	
Problem diagnosed	Low quality due to collection on ground	
Farmers' Practices	Collection of mahua flower on ground	
Details of technologies selected for assessment	T ₁	Collection of mahua flower on ground
	T ₂	Collection of mahua flower in net for quality improvement
Source of technology	OUAT, Orrisa	
Plot size	169 m ²	
No. of farmers	05	
Total cost	12500	
Critical input	Green net	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation		

OFT- 11

Crop / Enterprise	Enterprise (NTFS)	
Title of on farm trial	Assessment of improved technique of drying and storage of mahua flower for better quality and increased self life	
Problem diagnosed	Low price of mahua flower due to poor quality	
Farmers' Practices	Drying of mahua flower on surface and storage in gunny /plastic bags	
Details of technologies selected for assessment	T ₁	Drying of mahua flower on surface and storage in gunny /plastic bags
	T ₂	Drying of mahua in low cost poly tunnel and storage in save bags
Source of technology	OUAT, ORRISA	
Plot size	-	
No. of farmers	05	
Total cost	17000	
Critical input	Low cost poly tunnel	
Performance indicators: (xxxii) Technical- yield (q/ ha) (xxxiii) Economic (xxxiii) Social – Employment generation		

OFT- 12

Crop / Enterprise	Enterprise	

Title of on farm trial	Assessment of millet value addition in the form of malted multi millet mix for income generation	
Problem diagnosed	No value addition of millets , low price due to direct sale	
Farmers' Practices	Direct sale of millets without value addition	
Details of technologies selectedfor assessment	T ₁	Direct sale of millets without value addition
	T ₂	Preparation of malted multi millet mix
Source of technology	IIMR, Hyderabad	
Plot size	-	
No. of farmers	05	
Total cost	5000	
Critical input	Millets , groundnut , sesame etc	
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation		

OFT- 13

Crop / Enterprise	Enterprise	
Title of on farm trial	Assessment of adaption of natural farming system in paddy cultivation	
Problem diagnosed	Higher cast of cultivation due to Farmers used chemical farming	
Farmers' Practices	Farmers used chemical farming	
Details of technologies selectedfor assessment	T ₁	Farmers used chemical farming
	T ₂	Farmers used component of Natural farming
Source of technology	-	
Plot size	4000m2	
No. of farmers	80	
Total cost		
Critical input		
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation		

OFT- 14

Crop / Enterprise	Enterprise	
Title of on farm trial	Assessment of Kisan Sarthi agri – information system in adoption of improved production technology of pulse crop	
Problem diagnosed	Lack of knowledge about crop advisories	
Farmers' Practices	Farmers cannot used specific crop based advisories	
Details of technologies selectedfor assessment	T ₁	Farmers cannot used specific crop based advisories
	T ₂	Kisan Sarthi agri – information system
Source of technology	-	
Plot size	-	
No. of farmers	80	
Total cost	-	
Critical input	-	
Performance indicators: (xl) Technical- yield (q/ ha) (xli) Economic (xlii) Social – Employment generation		

OFT -1

1	Enterprise	Enterprises - Goatry
2	Title of on-farm trial	Assessment of growth performance of non-descript goat (kids) supplemented with concentrate mixture under field condition
3	Problem diagnosed	Poor growth in goat kids

4	Farming situation	Irrigated
5	Production system and thematic area	Feed Management
6	Farmers' practices	Grazing in community grazing lands for 6-8 hours
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : Grazing in community grazing lands for 6-8 hours T ₂ : Feeding of concentrate mixture @ 1.5% of body weight along with grazing for 150 days
8	Source of technology	CAZRI 2012
9	No. of animals	05
10	No. of farmers	05
11	Critical input	Concentrate mixture
12	Cost of input	800
13	Total cost	4000
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

OFT -2

1	Enterprise	Enterprise - Dairy
2	Title of on-farm trial	Assessment of concentrate pelleted feed for milch animals to enhance milk production
3	Problem diagnosed	Unavailability of adequate feed for dairy animals
4	Farming situation	Irrigated
5	Production system and thematic area	Feed management
6	Farmers' practices	No use of pelleted feed for milch animals
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : No use of pelleted feed for milch animals T ₂ : Use of concentrate pelleted feed for animals @ 1kg / 2lit. of milk yield
8	Source of technology	IVRI, Izzatnagar
9	No. of animals	05
10	No. of farmers	05
11	Critical input	concentrate pelleted feed
12	Cost of input	1200
13	Total cost	6000
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

OFT -3

1	Enterprise	Enterprises - Goatry
2	Title of on-farm trial	Assessment of Dual purpose goat breed Sirohi for breed improvement
3	Problem diagnosed	Less income due to rearing of indigenous breed of goat
4	Farming situation	Irrigated
5	Production system and thematic area	Breed improvement
6	Farmers' practices	Rearing of indigenous goat breeds
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : Rearing of indigenous goat breeds T ₂ : Rearing of Sirohi goat breed
8	Source of technology	IVRI, Izzatnagar
9	No. of animals	05
10	No. of farmers	05

11	Critical input	Goat breed Sirohi
12	Cost of input	15000
13	Total cost	15000
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

OFT -4

1	Enterprise	Enterprise - Poultry
2	Title of on-farm trial	Assessment of dual purpose coloured bird Narmada nidhi for backyard poultry
3	Problem diagnosed	Low egg and meat production due to rearing of indigenous breed
4	Farming situation	Irrigated
5	Production system and thematic area	Poultry management
6	Farmers' practices	Rearing of indigenous poultry breed
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : Rearing of indigenous poultry breed T ₂ : Rearing of dual purpose coloured bird Narmada nidhi
8	Source of technology	Nanaji Deshmukh Veterinary Science University, Jabalpur
9	No. of animals/Birds	50
10	No. of farmers	05
11	Critical input	Chicks of dual purpose coloured bird Narmada nidhi
12	Cost of input	1000
13	Total cost	5000
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT: 1

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Variety IPU-2-43 of black gram in summer season
Year/Season:	2022/ summer – IIInd year
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Black gram due to use of local varieties
Thematic area:	Varietal assessment
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of variety – JU-2
T2 –Recommended Practice-	Growing HYV - IPU-2-43
T3- Recommended Practice-	
Date of sowing:	First week of April
Date of harvesting:	Second week of Jun
Source of technology:	IIPR-Kanpur
Characteristics of technology:	Tolerant to Yellow vein mosaic disease, duration – 80 days, yield – 15-16 q/ha
Name of Crop/Enterprises:	Black gram

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 2

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of early maturing variety BDN-711 of Pigeon pea
Year/Season:	2022/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Pigeon pea crop due to effect of frost in long duration varieties
Thematic area:	Varietal assessment
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of variety – Asha (ICPL 87-119)
T2 –Recommended Practice-	Use of short duration variety – BDN -711
T3- Recommended Practice-	
Date of sowing:	June-July
Date of harvesting:	
Source of technology:	IIPR Kanpur
Characteristics of technology:	White seeded, Duration – 155 days, Yield – 15-16 ha.
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 3

Name of Discipline	Agronomy / Plant Breeding
Title of on-farm trial:	Assessment of Sorghum varieties SPH -1820 and CSH-30 as a new crop for crop diversification
Year/Season:	2022/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	-
Thematic area:	Varietal
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No cultivation of sorghum
T2 –Recommended Practice-	Introduction of sorghum variety – SPH -1820
T3- Recommended Practice-	Introduction of sorghum variety –CSH-30
Date of sowing:	I-II nd week of July
Date of harvesting:	October
Source of technology:	IIMR, Hyderabad

Characteristics of technology:	Variety SPH -1820 – 42-43q/ha, resistant to shoot fly Variety CSH-30 - Resistant to lodging, grain yield 43 q/ha and fodder 140q/ha
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 4

Name of Discipline	Agronomy / Plant Breeding
Title of on-farm trial:	Assessment of improved variety – TG-37-A of Groundnut as new crop for crop diversification
Year/Season:	2022/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	-
Thematic area:	Varietal
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No cultivation of groundnut
T2 –Recommended Practice-	Use of high yielding variety – TG-37-A
T3- Recommended Practice-	
Date of sowing:	I-II nd July 2022
Date of harvesting:	October 2022
Source of technology:	<i>Trombay, Mumbai</i>
Characteristics of technology:	Duration – 100-105 days, Yield – 18-20q/ha
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 5

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of natural farming components in Paddy
Year/Season:	Kharif 2022
Farming situation:	Semi- irrigated
Problem diagnosis:	Low returns due to high cost of input
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of chemical fertilizers
T2 –Recommended Practice-	Use of Beejamrit +Jeewamrit (20,40,60 DAS)+ Ghanjeevamrit (200+100kg/acre at sowing and flowering stage respectively) + Use of Neemastra for plant protection

T3- Recommended Practice-	
Date of sowing:	July
Date of harvesting:	-
Source of technology:	Gujarat
Characteristics of technology:	Reduction of input cost, Beneficial for health
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 6

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of natural farming components in Chick pea
Year/Season:	Rabi 2022
Farming situation:	Semi- irrigated
Problem diagnosis:	Low returns due to high cost of input
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of chemical fertilizers
T2 –Recommended Practice-	Use of Beejamrit +Jeevamrit (20,40,60 DAS)+ Ghanjeevamrit (200+100kg/acre at sowing and flowering stage respectively) + Use of Neemastra for plant protection
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	Reduction of input cost, Beneficial for health
Name of Crop/Enterprises:	Chick pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 7

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of direct sowing of seed in Paddy
Year/Season:	2022/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low returns due to high cost of transplanting, labour cost
Thematic area:	Resource conservation technology
No of trials:	6

No. of farmers involved	6
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of paddy nursery transplanting method
T2 –Recommended Practice-	Direct seeding through seed drill
T3- Recommended Practice-	-
Date of sowing:	1st week of July 2022
Date of harvesting:	Last week of November 2022
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	Reduces cost of transplanting, time and labour saving
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 8

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of ridge furrow system sowing of pigeon pea
Year/Season:	Kharif 2022
Farming situation:	Rainfed
Problem diagnosis:	Problem of water logging and high seed rate due to broadcast sowing.
Thematic area:	Farm mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing in Flat bed (Variety TJT 501)
T2 –Recommended Practice-	Sowing in Raised bed (Variety TJT 501)
T3- Recommended Practice-	-
Date of sowing:	July 2022
Date of harvesting:	Dec 2022
Source of technology:	CIAE, Bhopal
Characteristics of technology:	Better for root development and water conservation in between rows
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 9

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of growth performance of non-descript goat (kids) supplemented with concentrate mixture under field condition
Year/Season:	2023 Rabi
Farming situation:	Irrigated
Problem diagnosis:	Poor growth in goat kids

Thematic area:	Feed management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Grazing in community grazing lands for 6-8 hours
T2 –Recommended Practice-	Feeding of concentrate mixture @ 1.5% of body weight along with grazing for 150 days
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CAZRI 2012
Characteristics of technology:	Use of concentrate mixture @ 1.5 % of body weight
Name of Crop/Enterprises:	Goat kids
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 10

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of concentrate pelleted feed for milch animals to enhance milk production
Year/Season:	2023 Rabi
Farming situation:	-
Problem diagnosis:	Unavailability of adequate feed for dairy animals
Thematic area:	Feed management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of pelleted feed for milch animals
T2 –Recommended Practice-	Use of concentrate pelleted feed for animals @ 1kg / 2lit. of milk yield
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IVRI, Izzatnagar
Characteristics of technology:	-
Name of Crop/Enterprises:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 11

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Dual purpose goat breed Sirohi for breed improvement
Year/Season:	Kharif 2023
Farming situation:	-
Problem diagnosis:	Less income due to rearing of indigenous breed of goat
Thematic area:	Breed improvement
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Rearing of indigenous goat breeds
T2 –Recommended Practice-	Rearing of Sirohi goat breed
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IVRI, Izzatnagar
Characteristics of technology:	dual-purpose animals, being reared for both milk and meat, resistant to major diseases
Name of Crop/Enterprises:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 12

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of dual purpose coloured bird Narmada nidhi for backyard poultry
Year/Season:	Kharif 2023
Farming situation:	-
Problem diagnosis:	Low egg and meat production due to rearing of indigenous breed of poultry
Thematic area:	Poultry management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Rearing of indigenous poultry breed
T2 –Recommended Practice-	Rearing of dual purpose coloured bird Narmada nidhi
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	dual purpose dual purpose coloured chicken, attain 700 to 800g at 8 weeks of age under backyard, produces 181 eggs in backyard 4 times higher than the local native (45 eggs)
Name of Crop/Enterprises:	Poultry
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: 1

Title	Assessment of adoption of Natural farming system in Rice cultivation
Season & Year	Kharif 2023
Problem identified	
Thematic Area	Natural Farming
Farming situation	-
Name of Technology Intervention under study	Natural farming
Farmers Practice	-
No. of replication (Farmers)	80

Results / findings

Performance indicators/ parameters	Unit/ details
Adoption, Yield, Cost saving	

OFT: 2

Title	Assessment of Kisan Sarthi agri – information system in adoption of improved production technology of pulse crop.
Season & Year	Rabi 2023
Problem identified	-
Thematic Area	ICT
Farming situation	-
Name of Technology Intervention under study	Kisan Sarthi agri – information system
Farmers Practice	-
No. of replication (Farmers)	80

Results / findings

Performance indicators/ parameters	Unit/ details
Adoption, Problem solving	

Information about Home Science OFT: 1

Title of on-farm trial:	Assessment of bio-fortified variety of Paddy – CR Dhan 310

Year/Season:	Kharif , 2023
Problem diagnosis:	High magnitude of malnutrition and low immunity among farm families
Thematic area:	Crop Diversification and Nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of variety MTU1010/IR 64
T2 –Recommended Practice-	Use of variety- CR Dhan 310
Source of technology:	CRRI, Cuttack
Characteristics of technology:	Rich in various nutrients like protein and zinc
Name of Crop/Enterprises:	Paddy
Farming situation:	Rainfed
Date of sowing:	1st week of July 2023
Date of harvesting:	Last week of November 2023
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 2

Title of on-farm trial:	Assessment of improved technique of collection of mahua flower (in green net) for better quality and income generation
Year/Season:	Summer, 2023
Problem diagnosis:	Low quality due to collection on ground
Thematic area:	Value addition
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Collection of mahua flower on ground
T2 –Recommended Practice-	Collection of mahua flower in net for quality improvement
Source of technology:	OUAT, Orissa
Characteristics of technology:	Quality improvement in mahua flower, better purity and less contamination
Name of Crop/Enterprises:	Mahua
Farming situation:	-
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 3

Title of on-farm trial:	Assessment of improved technique of drying and storage of mahua flower for better quality and increased shelf life

Year/Season:	Summer, 2023
Problem diagnosis:	Low price of mahua flower due to poor quality
Thematic area:	Value addition
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Drying of mahua flower on surface and storage in gunny /plastic bags
T2 –Recommended Practice-	Drying of mahua in low cost poly tunnel and storage in save bags
Source of technology:	OUAT, Orissa
Characteristics of technology:	Drying time 3-4 days, better colour, less contamination, better shelf life
Name of Crop/Enterprises:	Mahua
Farming situation:	-
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 4

Title of on-farm trial:	Assessment of millet value addition in the form of malted multi millet mix
Year/Season:	Rabi 2023
Problem diagnosis:	Less use of millets in daily diet
Thematic area:	Nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No value addition of millet
T2 –Recommended Practice-	Value addition in the form of malted multi millet mix
Source of technology:	IIMR, Hyderabad
Characteristics of technology:	Health mix with high protein, fiber, minerals and vitamins
Name of Crop/Enterprises:	Millets
Farming situation:	-
Date of sowing:	November 2023
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Kodo	Demonstration of improved variety JK-98 of Kodo millet (VR)	Improved variety JK-98	Seed	Kharif 2023	10	02	Yield
2	Kutki	Demonstration of improved variety JK-36 of Kutki (VR)	Improved variety JK-36	Seed	Kharif 2023	10	02	Yield
3	Soybean	Demonstration of improved variety JS 20-98 of Soybean (VR)	Improved variety JS 20-98	Seed	Kharif 2023	05	01	Yield
4	Black rice	Demonstration on cultivation of Black rice (Nutritional security/Crop Diversification)	Variety- BJR-11, Chakhao	Seed	Kharif 2023	1.0	05	Yield, Nutritional value
5	Vegetables	Demonstration on kitchen gardening (Nutritional security)	Nutritional garden	Seed and seedlings	Round the year 2023	01	20	Per capita availability

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	-	-	-
2	Farmers Training	08	Round the year	200
3	Media coverage	All activities	Round the year	Mass
4	Training for extension functionaries	02	Pre kharif, Pre rabi	50

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Zero till machine	Wheat	Rabi 2023	05	2.0	Sowing by Zero till machine	Yield, Cost saving	Cost saving	Cost saving

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Dairy	Buffalo	05	05	mahua seed cake	Milk yield		
Dairy	Buffalo	05	05	Green azolla	Milk yield		
Dairy	Berseem	05	05	Seed	Yield, Milk yield		
Goatry	JB-9 Local	05	05	Probiotic Biovet YC gold	Weight gain		

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Marigold production	Pusa narangi	10	0.5	Seed/Seedlings	Yield	Income	Income
Pulses	Save bag	20	20	Save bag	% infestation, shelf life, income		

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Sesame	Demonstration on Sesame (ICM)	HYV, Seed treatment, Biofertilizer, Line sowing	Seed, Biofertilizer	2023 Kharif	10	25	Yield
2	Pigeon pea	Demonstration on pigeon pea with full package & practices under NFSM (ICM)	HYV, Seed treatment, Biofertilizer, Line sowing	Seed, Biofertilizer	Kharif 2023	10	25	Yield
3	Mustard	Demonstration of variety RH 0479 of Mustard (ICM)	HYV, Seed treatment, Biofertilizer, Line sowing	Seed, Biofertilizer	Rabi 2023	10	25	Yield
4	Gram	Demonstration of variety JG-14 of Gram with full package & practices under NFSM (ICM)	Variety- JG 14	Seed, Biofertilizer	Rabi 2023	10	25	Yield

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04		150
2	Farmers Training	04		100
3	Media coverage	All		Mass
4	Training for extension functionaries	02		50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Resource Conservation Technologies									
Integrated Farming	1	1							
Water management									
Seed production	2	2							
Integrated Crop Management	4	4							
Total	8	8							
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
Total									
b) Fruits									
Management of young plants/orchards									
Total									
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology									
Total									
g) Medicinal and Aromatic Plants									
Production and management technology	1	1							
Total	1	1							
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	1	1							
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs	1	1							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female	Total	
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing										
Total	2	2								
IV Livestock Production and Management										
Dairy Management	1	1								
Poultry Management										
Disease Management										
Feed management										
Production of quality animal products										
Total	1	1								
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	1								
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Value addition										
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Women and child care										
Total	1	1								
VI Agril. Engineering										

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Vermi-culture											
Value addition	1	5									
Sheep and goat rearing	1	3									
Para extension workers											
TOTAL	4	14									
(C) Extension Personnel											
Productivity enhancement in field crops	2	2									
Integrated Pest Management											
Integrated Nutrient management											
Protected cultivation technology	1	1									
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production	1	1									
Production and use of organic inputs	1	1									
Gender mainstreaming through SHGs											
Importance and use of millets	1	1									
TOTAL	6	6									

B) OFF Campus

[illegible]

Production of organic inputs	2	2							
Total	9	9							
II Horticulture									
a) Vegetable Crops									
Nursery raising									
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	1	1							
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs	1	1							
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management	2	2							
Poultry Management	2	2							
Disease Management	1	1							
Feed management	1	1							
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	2							
Design and development of low/minimum cost diet	1	1							

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
10.7.2023	F/FW	Weed management in major kharif crops	01							
22.6.2023	F/FW	IFS for doubling farmers income	01							
06.06.2023	F/FW	Seed production in major kharif crops	01							
04.10.2023	F/FW	Seed production in major rabi crops	01							
20.06.2023	F/FW	ICM in Pigeon pea	01							
19.06.2023	F/FW	ICM in Sesame	01							
13.09.2023	F/FW	ICM in Mustard	01							
15.09.2023	F/FW	ICM in Chick pea	01							
Horticulture										
24.05.2023	F/FW	Production technology of Satavar, Ashwagandha and Kaalmegh	01							
Livestock production										
12.04.2023	F/FW	Dairy management	01							
18.05.2023	F/FW	Feed management in dairy animals	01							
Home Science										
15.10.2023	F/FW	Establishment of kitchen gardening	01							
16.10.2023	F/FW	Vermi-compost production	01							
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										

03.08.2023	F/FW	Formation and management of SHGs	01							
12.09.2023	F/FW	Entrepreneurship development among farmers and rural youth	01							
Soil Science										
10.07.2023	F/FW	Soil fertility management under natural farming	01							
13.07.2023	F/FW	Production technology of vermin-compost and other organic fertilizers	01							

2. Off Campus

Dr. G. V. Sampath

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
12.07.2023	F/FW	Weed management in major kharif crops	01							
20.10.2023	F/FW	Weed management in major rabi crops	01							
04.10.2023	F/FW	Profitable cropping systems for DFI	01							
02.06.2023	F/FW	Production technology of Jowar	01							
07.06.2023	F/FW	Production technology of Groundnut	01							
15.06.2023	F/FW	IFS for DFI	01							
09.10.2023	F/FW	Water management in Wheat crop	01							
30.06.2023	F/FW	Preparation technique of natural farming components for nutrient	01							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		management								
06.10.2023	F/FW	Preparation technique of natural farming components for plant protection	01							
Horticulture										
Livestock production										
12.06.2023	F/FW	Care and management of milch animals in summer season	01							
10.10.2023	F/FW	Care and management of milch animals in winter season	01							
12.07.2023	F/FW	Rearing of dual purpose poultry breed	01							
23.11.2023	F/FW	Poultry feed management	01							
04.10.2023	F/FW	Production technology of Berseem	01							
17.08.2023	F/FW	Prevention of major diseases in milch animals	01							
Home Science										
19.04.2023	F/FW	Nutritional security through kitchen gardening	01							
03.05.2023	F/FW	Roof gardening	01							
25.05.2023	F/FW	Preparation of recipes from millet	01							
22.06.2023	F/FW	Preparation of protein rich diet for farm women	01							
18.08.2023	F/FW	Value addition of mahua	01							
30.08.2023	F/FW	Value addition of millets	01							
10.07.2023	F/FW	Marigold production	01							
31.05.2023	F/FW	Nursery raising	01							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		for income generation								
11.08.2023	F/FW	Mushroom production for income generation	01							
12.09.2023	F/FW	Use of women friendly equipments for drudgery reduction	01							
20.12.2023	F/FW	Better women and child care practices	01							
Plant Protection										
24.08.2023	F/FW	IPM in major kharif crops	01							
21.11.2023	F/FW	IPM in major rabi crops	01							
25.08.2023	F/FW	IDM in major kharif crops	01							
22.11.2023	F/FW	IDM in major rabi crops	01							
Agriculture Extension (Capacity Building and Group Dynamics)										
02.06.2023	F/FW	Formation and management of SHGs	01							
09.11.2023	F/FW	Entrepreneurship development among rural youth	01							
Soil Science										
04.07.2023	F/FW	Soil fertility management under natural farming	01							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
26- 28.06.2023	RY	Seed production	03							
Horticulture										
Livestock production										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Soil Science										
11.07.2023	IS	Production and use of organic inputs	01							

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	<i>Duration n</i>	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor ing agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	ICM in Pigeon pea	ICM	01	F/FW	01								
2	ICM in Sesame	ICM	01	F/FW	01								
3	ICM in Mustard	ICM	01	F/FW	01								
4	ICM in Chick pea	ICM	01	F/FW	01								

Extension Activities (including activities of FLD programmes)[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Soil health Camp	01									
Animal Health Camp	01									
Agri mobile clinic	00									
Soil test campaigns	00									
Farm Science Club Conveners meet	00									
Self Help Group Conveners meetings	01									
Mahila Mandals Conveners meetings	01									
Celebration of important days (specify)	08									
Others (pl. specify)										
Total	101									

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
Green manuring crop	Sunhemp	M-19	10

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES	Brinjal	Gaurav, Seema 2	6000
	Tomato	Abhilaash	10000
	Capsicum	Indira	2000
	Chilli	Pusa Jwala	3000
	Cabbage	BC 79	2500
	Cauliflower	Pusa drum head	2500
Total			26000
FOREST SPECIES			

ORNAMENTAL CROPS			
PLANTATION CROPS			
FLOWER CROPS	Marigold	Pusa narangi	20000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
3				
BIOFERTILIZERS				
1	Vermicompost	<i>Eisinea foetida</i>	-	5000
2	NADEP	-	-	-
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK - NIL

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
Jan 23	January to March 2023	500
Apr 23	April to June 2023	500
Jul 23	July to September 2023	500
Oct 23	October to December 2023	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-	Title of the programme	Number

	Cassette)		
1			
2			
3			

Success stories/Case studies identified for development as a case: 2

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA
3	In-service personnel	PRA
4	methodology for identifying OFTs/FLDs	PRA, AES
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Saraswahi- Baraspur	Manpur	15
2	Bharauli	Manpur	70
3	Barhai	Pali	60
4	Tali	Karkeli	25
5			
6			
7			
8			

1. No. of farm families selected per village : 20-50
2. No. of survey/PRA to be conducted: Completed

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Soil testing mini kit	02	Non working
2	Soil testing lab set	01	Not working due to lack of Soil Scientist

Details of samples analyzed so far: NIL

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agri. And farmers welfare	Technical support
ATMA	Technical support
Department of Horticulture	Technical support
Department of Veterinary Sciences	Technical support
Department of Fisheries	Technical support
M.P. Agro	Supply of agricultural input
Department of Agril. Engg.	Technical support
Soil Testing Department	Collaboration for recommendation on Soil test base nutrient application
DMO	Supply of fertilizer

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Demonstration	Technical support, Preparation of package of practices
Training and field visit	Technical guidance

Give details of programmers implemented under National Horticultural Mission - NIL

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan-March 2023	Trainings - 03	75
	Demonstration on Natural farming components in Wheat, Chick pea and Mustard	10/ 4.0 ha
	Awareness programme - 03	300
April- Jun 2023	Trainings - 03	75
	Awareness programme - 03	300
July-Sept. 2023	Training - 06	150
	Demonstration on Natural farming components in Paddy	10/4.0 ha
Oct. – Dec. 2023	Trainings - 03	75
	Awareness programme - 03	300

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 700 Sqm

Crop	Season	Variety	Particulars /details	Area (Sq m)
Black gram	Kharif	IPU-2-43, JU - 2	HYV, Disease tolerant	200
Sesame	Kharif	TKG 306, TKG308	HYV, Disease tolerant	
Little millet	Kharif	JK-8, JK-36	HYV, Disease tolerant	
Kodo millet	Kharif	JK-98, JK-41	HYV, Disease tolerant	
Pigeon pea	Kharif	BDN 711, BDN 716, Rajeshwari, TJT 501 under SPI	HYV, Early to medium duration, Frost escaping	500

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermi-compost unit	Eisinea foetida	600	
Goatry unit	Sirohi breed	150	
Dal mill unit	IIPR Kanpur , 100kg/hour capacity	600	
Nursery unit	Seasonal vegetables seedlings round the year	100	
Nutritional garden	Seasonal vegetables in rabi season	185	
Roof garden	Seasonal vegetables round the year in pots, buckets and grow bags	300	
High density orchard- Guava	Allahabadi safeda(2x2mt)	250	
High density orchard- Mango	Variety- Amrapali (3x3m)	1000	
Green net house	Tomato with stacking (Abhilaash), Pineapple, Elephant foot yam (Gajendra)	300	
Poly house	Marigold	300	
Bee keeping	Boxes – 02 with honey bee colony	02	
Casuarinas plantation	With help of	4000	
IFS model	Fish cum duck culture		
Guava orchard	Allahabadi safeda(5x5mt)	2000	