

ANNUAL ACTION PLAN

JNKVV, JABALPUR

2024



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

Contents

S. No.	Particulars	Page No.
1.	KVK, Balaghat	3
2.	KVK, Betul	34
3.	KVK, Chhatarpur	81
4.	KVK, Chhindwara-I	111
5.	KVK, Chhindwara-II	152
6.	KVK, Damoh	203
7.	KVK, Dindori	248
8.	KVK, Harda	287
9.	KVK, Jabalpur	337
10.	KVK, Katni	424
11.	KVK, Mandla	476
12.	KVK, Narsinghpur	515
13.	KVK, Panna	541
14.	KVK, Rewa	594
15.	KVK, Sagar-I	637
16.	KVK, Sagar-II	683
17.	KVK, Seoni	725
18.	KVK, Shahdol	773
19.	KVK, Sidhi	803
20.	KVK, Singrauli	840
21.	KVK, Tikamgarh	886
22.	KVK, Umaria	917

ANNUAL ACTION PLAN 2024

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.2023)

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. R.L. Raut	Senior Scientist & Head	Horticulture	147900	01.02.2019	2019	9425896702	rshn_raut71@yahoo.com	
2	Subject Matter Specialist	Dr. S.R. Dhuware	Scientist	Agril. Ext.	110400	03.03.2007	2007	9424752492	srdhuware@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	42000	03.10.2018	2018	9893995746	rameshamule@gmail.com	
9	Computer Programmer/ Programme Assistant	Miss. Anjna Gupta	Programme Assistant	Computer Science	42700	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	Driver	-	32100	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		1.4
2	Under Demonstration Units	0.4
3	Under Crops	10
4	Road & Bunds	2.0
5	Water Tank	8.5
6	Cannels	3.7
	Total	26

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	146050	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 Movel	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	24/05/2024
2	10/10/2024

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	25000 ha.
2	Rice+Pigeonpea – Rice	21000 ha.
3	Rice+Pigeonpea – fallow	216000 ha.
4	Rice+Pigeonpea –Wheat/Mustard/Chickpea/Lathyrus - Green gram	16000 ha.
5	Kodo / kutki / Niger – fallow	5300 ha.
6	Vegetables – Vegetables	11500 ha.
7	Fruits – Fruits	11950 ha.
8	Sugarcane	4600 ha.
9	Water chestnut	8250 ha.
10	Dairying	1200 ha.
11	Poultry	650000 animals
12	Maize – Mustard/Toria	272000 Birds
13	Goatary	235000 animals
14	Fisheries	976 ha

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, Mandla, 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)

SWOT Analysis of each Agro-Ecological Situations of district

Agro Ecological Situation	Characteristics
AES-I	Block covered
	Lanji, Paraswada, Baihar, Birsia
	Geographical Area
	483479 ha.
	Topography
	Hilly & Undulating
AES-II	Soils
	Red loamy
	Major Farming systems
	Agril. + AH (63.57%) Agril. + Horti. (23.93%) Agril. + Horti. + AH (12.30%)
	Major crops
	Paddy, Arhar, Minor Millets, Maize, Niger, Wheat, Gram, Linseed, Mustard, Urd, Moong.
AES-III	Block covered
	Balaghat, Kirnapur
	Geographical Area
	203259 ha.
	Topography
	Plain
AES-III	Soils
	Red sandy
	Major Farming systems
	Agril. + AH (14.85%) Agril. + Horti. (57.10%) Agril. + Horti. + AH (28.05%)
	Major crops
	Paddy, Arhar, Sugarcane,Urd, Wheat, Gram, Linseed, Moong.
AES-III	Block covered
	Waraseoni, Khairlanji, Katangi, Lalburra
AES-III	Geographical Area
	237762 ha.

	Topography	Plain
	Soils	Mixed red & black
	Major Farming systems	Agril. + AH (55.00%) Agril. + Horti. (41.66%) Agril. + Horti. + AH (03.34%)
	Major crops	Paddy, Arhar, Sugarcane, Maize, Urd, Wheat, Gram, Groundnut, Moong.

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	Seasumum	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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0	28	13.1
Feb. 2023	0	33	13.5
Mar. 2023	0	34.4	18.2
Apr. 2023	54.2	37	21.4
May. 2023	32.5	38.3	23.2
Jun. 2023	205	38.5	26.2
July. 2023	573.5	32	25.9
Aug. 2023	429.8	30.7	25.2
Sept. 2023	450.5	31.9	25.3
Oct. 2023	0	33.1	19.8
Nov. 2023	12.5	30.4	16.5
Dec. 2023	19	29.3	14.8

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	552.8	 MT.	 kg
Buffalo	194.9	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	0	 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	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 (2023)

Sl. No.	Tehsil	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	Lalbarra	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
14	250	12	60

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
55	2030	170	7543

Seed Production (Qtl.)	Planting material (Nos.)
450	17500

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterpr ise	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	Rice-Chickpea /Natural Farming	Rice	Low income from normal rice cultivation & Hazards of chemical fertilizers and pesticide (2.5 Lakh ha)	Assessment of Scented rice var. Kali Kammod Selection 1 (Natural farming). (IInd year)	Rice Var. Improved Chinour, Use of Beejamrit, Jeevamrit, (20 days interval), Brahamastra, Nimastra, Amritpani, Dashparniy ark	Training on Natural Farming	Training on Natural Farming	Krishak Sangoshti	Krishak Sangoshti/Field day
2	Rice-Chickpea /Natural Farming	Rice	Hazards of chemical fertilizers and pesticide (3.0 Lakh ha)	Assessment of rice var. Luchai Selection 1 (Natural farming). (Ind year)	Wheat HI 1634	Training on Natural Farming	Training on Natural Farming	Krishak Sangoshti	Krishak Sangoshti/Field day
3	Rice-Chickpea	Rice	Low yield of Rice due old variety MTU 1010 (Area 1.20 lakh ha.)	Assessment of High yielding Rice variety JR 10. (Ist year)	Sowing of chickpea with Super seeder	Training on Rice variety JR 10	Trainin g on Rice variety JR 10	Krishak Sangoshti	Krishak Sangoshti/Field day
4	Kodo	Kodo	Low yield of Kodo Variety due to use of local seed	Assessment of Kodo var. JK 137 (Natural farming) (Ist year)	HYV of Mustard RH 0749	Training on Natural Farming	Training on Natural Farming	Krishak Sangoshti	Krishak Sangoshti/Field day
5	Rice	Makhana	Low income from submerged paddy field	Assessment of Makhana crop in submerged paddy field at Balaghat condition	Trichoderma viride	Training on Makhana cultivation	Training on Makhana cultivation	Krishak Sangoshti/Field day	Seeds
6	Rice-Chickpea	Chickpea	Low yield old variety (JG-315)	Assessment of Chickpea Var. JG 24 under rice-chickpea cropping system	IPM for chickpea pod borer	Training on Chickpea	Training on Chickpea	Krishak Sangoshti/Field day	Seeds
7	IPM	Mustard	30-40 % loss in yield due to attack of aphid in mustard	Assessment of IPM module for Mustard aphid	IPM for pigeon pea pod borer	Training on IPM module for Mustard	Training on IPM module for Mustard	Krishak Sangoshti/Field day	Seeds

			(Affected area 20000 ha.)	management					
8	Natural Farming	Mustard	25-30 % loss in yield due to attack of Rice Stem Borer, Chemical hazards to human health	Assessment of Natural Farming ingredients for stem borer Management in Rice	Oyster Mushroom	Training on Natural Farming/ Mustard	Training on Natural Farming /Mustard	Krishak Sangoshti/ Field day	Seeds
9	Rice - Chickpea	Rice	Low yield of Rice due to heavy incidence of Sheath blight	Assessment of fungicide for management of Sheath blight in Rice	IDM - Seed treatment with Pseudomonas, spray of Azoxystrobin 18.2 + Difenconazole 11.4%	Training on Rice-chickpea	Training on Rice-chickpea	Krishak Sangoshti/ Field day	Seeds
10	Plant Protection	Rice	Heavy attack of panicle mite in rice (15000ha)	Assessment of panicle mite management module in Rice .	high yielding var. of Coriander Ajmer Coriander 1	Training on panicle mite management module in Rice	Training on panicle mite management module in Rice	Krishak Sangoshti/ Field day	Seeds
11	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	high yielding var. of Onoin NHRDF Red 4	Training on soil health card	Training on soil health card	Krishak Sangoshti/ Field day	-
12	ICT	Natural Farming	Hazards of chemical farming on soil, human and animal health	Assessment of knowledge & adoption of Natural Farming in district	high yielding var. of Kutaki JK 4	Training on Natural farming	Training on Natural farming	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 Brown leaf hopper in Rice	-	Training on Kisan Sarthi	Training on Kisan Sarthi	Krishak Sangoshti/ Field day	-
14	ICT	Chickp	Delay and	Assessment	-	Training	Training	Krishak	-

		ea	lack of visual based technical information	of effectiveness of WhatsApp messages for Management of Wilt in Chickpea		on Chickpea	on Chickpea	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	Flower	Plantation crops	Tuber Crops	TOTAL
Rice-Chickpea /Natural Farming	Rice									1
Rice-Chickpea /Natural Farming	Rice									1
Rice-Chickpea	Rice									1
Kodo			Kodo							1
Rice						Makhana				1
Rice-Chickpea			Chickpea							1
IPM		Mustard								1
Natural Farming		Mustard								1
Rice - Chickpea	Rice									1
Plant Protection	Rice									1
Capacity building & Dynamics				soil health card						1
ICT				Natural Farming						1
ICT				KISAN SARTHI						1
ICT				Chickpea						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 : Assessment of Scented rice var. Kali Kammod Selection 1 (Natural farming).

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of Scented rice var. Kali Kammod Selection 1 (Natural farming). (IInd year)
Problem diagnosed	Low income from normal rice cultivation & Hazards of chemical fertilizers and pesticide (2.5 Lakh ha)
Farming situation	Rainfed/Irrigated
Production system and thematic area	Rice-Chickpea /Natural Farming
Farmers' practices	T1- Use of chemical fertilizers and pesticides with old var. MTU 1010
Details of technologies selected for assessment/refinement Treatments	T2- Use of Beejamrit, Jeevamrit, Ghanjeevamrit Brahamastra, Nimastra, Amritpani, Dashparniy ark
Source of technology	Kam Lagat Prakratik Kheti, Acharya Devvrit Ji, 2019 (JNKVV, 2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals	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 x 5 = 10000
Total cost	Rs. 14000

OFT - 2 : Assessment of rice var. Luchai Selection 1 (Natural farming). (Ind year)

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of rice var. Luchai Selection 1 (Natural farming). (Ind 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 with old var. MTU 1010
Details of technologies selected for assessment/refinement Treatments	T2- Use of Beejamrit, Jeevamrit, Ghanjeevamrit Brahamastra, Nimastra, Amritpani, Dashparniy ark
Source of technology	Kam Lagat Prakratik Kheti, Acharya Devvrit Ji, 2019 (JNKVV, 2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals	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 x 5 = 10000
Total cost	Rs. 14000

OFT - 3 : Assessment of High yielding Rice variety JR 10

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of High yielding Rice variety JR 10. (Ist year)
Problem diagnosed	Low yield of Rice due old variety MTU 1010 (Area 1.20 lakh ha.)
Farming situation	Rainfed/Irrigated
Production system and thematic area	Rice-Chickpea
Farmers' practices	T1- Use of old var. MTU 1010 or other 115-120 duration var.
Details of technologies selected for assessment/refinement Treatments	T2- High yielding Rice variety JR 10, Yield 50-55 q/ha, Tolerant to BLB, BPH, and stem borer
Source of technology	JNKVV, 2022
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals	-
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 x 5 = 10000
Total cost	Rs. 14000

OFT - 4 : Assessment of Natural farming ingredient for kodo var. JK 48

Crop/Enterprise	Kodo
Title of on-farm trial	Assessment of Kodo var. JK 137 (Natural farming) (Ist year)
Problem diagnosed	Low yield of Kodo Variety due to use of local seed
Farming situation	Rainfed
Production system and thematic area	Kodo- fallow
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 137, duration 102-107 days, high yielding, tolerant to drought & Disease.
Source of technology	Kam Lagat Prakratik Kheti, Acharya Devvrit Ji, 2019 (JNKVV, 2015)
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 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. 1000 x 5 = 5000
Total cost	Rs. 7000

OFT - 5 : Assessment of Chickpea JG 24 under rice- chickpea cropping system

Crop/Enterprise	Chickpea
Title of on-farm trial	Assessment of Chickpea Var. 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	Rs. 2400 x 5 = 12000
Total cost	Rs. 16000

OFT - 6 : Assessment of IPM module for Mustard aphid (IInd Year)

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of IPM module for Mustard aphid management
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 Udaipur 2020
No. of farmers	05
Area of each trial	0.4
No of trial	5
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	Rs. 1000 x 5 = 5000
Total cost	Rs. 9000

OFT - 7 : Assessment of rice stem borer under Natural Farming

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of Natural Farming ingredients for stem borer Management in Rice
Problem diagnosed	25-30 % loss in yield due to attack of Rice Stem Borer, Chemical hazards to human health
Farming situation	Rainfed
Production system and thematic area	Natural Farming
Farmers' practices	Use of chemical pesticides
Details of technologies selected for assessment/refinement Treatments	Neemastra : 2 lt of extract in 100 lt of water (20%) Bramhastra : 2 lt of extract in 100 lt of water (20%) Agniastra : 2 lt of extract in 100 lt of water (5%) Neem Seed kernal Extract : 1 lt of extract in 10 ltr of water (0.1%)
Source of technology	A. N.G. Ranga Agril. University Guntur 2020
No. of farmers	05
Area of each trial	0.4
No of trial	5
Critical input	Plastic Drum
Performance indicators Observation to be recorded	No. of dead hearts / 5 hills, Total no. of panicles / 5 hills, pesticide saving, Yield/plant, Yield
Cost of input	Rs. 1000 x 5 = 5000
Total cost	Rs. 9000

OFT - 8 : Assessment of fungicide against Sheath blight in Rice (1st year)

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of fungicide for management of Sheath blight in Rice
Problem diagnosed	Low yield of Rice due to heavy incidence of Sheath blight
Farming situation	Rainfed
Production system	Rice - Chickpea
Farmers' practices	T1- Thiram 50 WP
Details of technologies selected for assessment/refinement Treatments	T2- (Tebuconazole 50% + Trifloxystrobin 25%) 75 WG @ 0.4 g/litre of water
Source of technology	NRRI, Cuttack 2020
No. of farmers	05
Area of each trial	0.4
No of trial	5
Critical input	Tebuconazole 50% + Trifloxystrobin 25%
Performance indicators Observation to be recorded	No. of infected leafs/plant, no. of infected plants/sqm , Yield
Cost of input	Rs. 750 x 5 = 3750
Total cost	Rs. 8000

OFT - 9 : Assessment of IPM for panicle mite in Rice (Second Year)

Crop/Enterprise	Assessment of IPM for panicle mite in Rice (Second Year)
Title of on-farm trial	Assessment of panicle mite management module 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
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	Rs. 800 x 5 = 4000
Total cost	Rs. 8000

OFT - 10 : Assessment of knowledge & adoption of soil health card based fertilizer application

Title of on-farm trial	Assessment of knowledge & adoption of soil health card based fertilizer application
Season & Year	Kharif & Rabi/ 2024-25
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	-

OFT - 11 : Assessment of knowledge & adoption of Natural Farming in district

Title of on-farm trial	Assessment of knowledge & adoption of Natural Farming in district
Season & Year	Kharif/2024
Thematic Area	ICT
Problem diagnosed	Hazards of chemical farming on soil, human and animal health
Farming situation	Rainfed/Irrigated
Farmers' practices	Chemical Farming
Details of technologies selected for assessment/refinement Treatments	Natural farming improves soil health and no harmful effects on Human as well as animal health, there ingredients Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Amritpani etc are used for crop production.
No. of farmers	50
Area of each trial	-
No of trial	50
No. of animals (if animals are part of OFT)	-
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 - 12 : Assessment of effectiveness of KISAN SARTHI for Management of Brown leaf hopper in Rice

Title of on-farm trial	Assessment of effectiveness of KISAN SARTHI for Management of Brown leaf hopper in Rice
Season & Year	Kharif/2024
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 - 13 : Assessment of effectiveness of WhatsApp messages for Management of Wilt in Chickpea

Title of on-farm trial	Assessment of effectiveness of WhatsApp messages for Management of Wilt in Chickpea
Season & Year	Rabi/2024-25

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	-

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/ demonstrations	Parameters identified for performance evaluation
1	Rice	Crop Production- Natural Farming	Rice Var. Improved Chinnour, Use of Beejamrit, Jeevamrit, (20 days interval), Brahmastra, Nimastra, Amritpani, Dashparniy ark	Seed	Kharif 2024	4.0	10	Tillers/plant, grains/plant, yield/ha., soil organic carbon content
2	Wheat	Crop Production	Wheat HI 1634	Seed	Rabi 2024	4.0	10	No. of Tillers, No of grains/penicles. Yield/ha., Net return, B:C Ratio
3	Chickpea	Agriculture Engineering	Sowing of chickpea with Super seeder	Sowing with seed drill	Rabi 2024	4.0	10	No of pods, Yield, Time saving, Cost saving, Nitrogen value before and after crop production, Net return, B:C Ratio
4	Mustard	Crop production	HYV of Mustard RH 0749	Seed	Rabi 2023-24	4.0	10	No of branches/plant, No. of pods/plant, Yield, Net return, B:C Ratio
5	Chickpea	Crop protection IDM	Trichoderma viride	Trichoderma	Rabi 2024	4.0	10	Plant mortality/sqm, No. of pods/plant, Yield, Net return, B:C Ratio
6	Chickpea	IPM	IPM for chickpea pod borer	Pheromone, NPV,	Rabi 2024	4.0	10	No of Infected pods/plant, no. of

				Emamectine Benzoate				grains/pods, yield kg/ha, Net return, B:C Ratio
7	Pigeon pea	IPM	IPM for pigeon pea pod borer	NPV, Indoxacarb	Kharif 2024	4.0	10	No of infested pods/plant, no. of grains/pods, yield kg/ha, Net return, B:C Ratio
8	Mushroom	Income generation	Oyster Mushroom	Spawn, PP bags, Bavistin, Formalin	Rabi 2024	4.0	10	Yield/bag (kg), Income/bag, Income/month, Employment generation, Net return, B:C Ratio
9	Rice	Plant protection	IDM - Seed treatment with Pseudomonas, spray of Azoxystrobin 18.2 + Difenconazole 11.4%	Pseudomonas & Azoxystrobin 18.2 + Difenconazole 11.4%	Kharif 2024	4.0	10	No of infected plants/sqm, No. of infected grains/panicle, Yield, Net return, B:C Ratio
10	Rice	Spice production	high yielding var. of Coriander Ajmer Coriander 1	Seed and seed treatment fungicide	Rabi 2024	4.0	10	No of Umbel/plant, No of seed/umbel, Seed yield q/ha, Net return, B:C Ratio
11	Rice	Spice production	high yielding var. of Onoin NHRDF Red 4	Seed and seed treatment fungicide	Rabi 2024	4.0	10	Seed yield q/ha, Net return, B:C Ratio
12	Rice	Millet production	high yielding var. of Kutaki JK 4	Seed and seed treatment fungicide	Rabi 2024	4.0	10	Seed yield q/ha, Net return, B:C Ratio

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

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 treatment 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 treatment line sowing	Seed	Rabi/2023-24	50	125	No. of plant/sqm No. of branches/plant No. of pods/plant Yield
3	Greengram	Crop Production	Improved variety+seed treatment 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 treatment 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 treatment line sowing	Seed	Rabi/2023-24	30	75	No. of plant/sqm No. of branches/plant No. of pods/plant Yield
2	Mustard	Crop Production	Improved variety+seed treatment line sowing	Seed	Rabi/2023-24	20	50	No. of plant/sqm No. of branches/plant No. of pods/plant Yield

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	20	Dec. Feb. March	400
2	Farmers Training	10	June, July, Oct. Nov. and Feb.	250
3	Media coverage	12	Dec. Feb. March June, July, Oct. Nov. and Feb.	mass
4	Training for extension functionaries	07	June, Nov.	180

Farm Implements

*Field efficiency, labour saving etc.

*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
-	-	-	-	-	-	-	-

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	Dec. Feb. March	350
2	Farmers Training	12	June, July, Oct. Nov. and Feb.	400
3	Media coverage	22	Dec. Feb. March June, July, Oct. Nov. and Feb.	Mass
4	Training for extension functionaries	2	June, Nov.	50

A) ON Campus

[illegible]

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]

Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total	2	2	20	8	28	16	6	22	50
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products	1	1	10	4	14	8	3	11	25
Total	1	1	10	4	14	8	3	11	25
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	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	1	9	5	14	8	3	11	25
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
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.)	1	8	5	13	7	5	12	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
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	1	10	2	12	5	3	8	25
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
December	F &FW	Women and child care	1	19	5	24	1	0	1	25
Plant Protection										
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
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

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duratio n in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
October	F &FW	Seed production	1	9	5	14	8	3	11	25
November	F &FW	Integrated Crop Management	1	16	2	18	6	0	6	25
Horticulture										
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
November	F &FW	g) Medicinal and Aromatic Plants	1	8	5	13	7	5	12	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
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
Agriculture Extension (Capacity Building and Group Dynamics)										
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										
March	F &FW	Production and use of organic inputs	1	8	5	13	8	4	12	25
September	F &FW	Soil and Water Testing	1	15	2	17	8	0	8	25

Vocational Training Programme for Rural Youth:

SN	Thematic Area	Mon th	Duratio n in days	Expected No. of Participants									
				General			SC			ST			Grand Total
				Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Mushroom Production	2	5	19	6	25	5	3	8	12	5	17	50
2	Bee-keeping	1	5	11	4	15	3	1	4	4	2	6	25
3	Seed production	1	5	11	4	15	2	1	3	5	2	7	25
4	Nursery management	1	5	11	4	15	2	1	3	5	2	7	25
5	Vermicompost production	1	5	11	4	15	3	1	4	4	2	6	25
	TOTAL	6	25	63	22	85	15	7	22	30	13	43	150

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										
January	F &FW	Weed Management	1	9	5	14	8	3	11	25
September	F &FW	Water management	1	10	5	15	8	3	11	25
October	F &FW	Seed production	1	16	2	18	6	0	6	25
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.)	1	8	5	13	7	5	12	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
Livestock production										
January	F &FW	Household food security by kitchen gardening and nutrition gardening	1	10	2	12	5	3	8	25
February	F &FW	Design and development of low/minimum cost diet	1	8	5	13	8	4	12	25
December	F &FW	Women and child care	1	19	5	24	1	0	1	25
Home Science										
February	F &FW	Household food security by kitchen gardening and nutrition gardening	1	11	5	16	7	2	9	25
Plant Protection										
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										
February	F &FW	Vermi-compost production	1	5	8	13	8	4	12	25
December	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
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

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	Varmicopost producer	Training on Vermicomposting	25	FW	1	12	6	5	3	18	7	25	
2	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	300
	Paddy	Chinnor	100
	Paddy	JR 10	50
OILSEEDS	-	-	-
PULSES	-	-	-
VEGETABLES	Brinjal	Harshita	5000 No.
	Chilli	Hybrid	5000 No.
	Tomato	Arka Rakashak	10000 No.
	Onion	Hybrid	500000 No.
	Napier	Co 4	5000 No.
	Cucurbits	Hybrid	1000 No.
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady	1000
	Jamun	Local	1000
	Drumstick	PKM 1	5000
Grass	Napier	Co 4	2000
SPICES	-	-	-
VEGETABLES	Chilli	Hybrid	1000
	Tomato	Arka Rakashak	1000
	Brinjal	Harshita	1000
	Cucurbits	Hybrid	500
	Onion	Hybrid	5000
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			5000
2	NADEP			1000
3				
BIO PESTICIDES				
1	Dasparni arkl			100 L
2	Neemastra			100 L
3	Jeevamrit			1000 L

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY			100	No.
FISHERIES			-	200
Others (Specify)				

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

Date of start	Periodicity	Number of copies to be published
Jan to Dec 2024	4- Trimonthly	4000
Folder	10 - Annually	2000 each
Bulletin	2 - Annually	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	Nursery Management, Disease & Pests Management, Soil water conservation	10
2	TV talks	-	5
3	Newspaper coverage	-	20
4	Internet (Youtube)	-	20
	Social media (Whats App, Facebook, Instagram, Twitter etc.)	-	10

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
21.	Katangi	Kirnapur	34	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
22.	Pendrai	Balaghat	22	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
23.	Kanhargaon	Balaghat	20	Trainings/ Awareness camp/ Field Day/ FLD /OFT/CFLD
24.	Katangi	Kirnapur	6	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	Rotary Shaker	1	Not working
2	Laboratory Stirrer	1	Not working
3	Deminer Aliser Part I	1	Not working
4	Deminer Aliser Part II	1	Not working
5	Grinder	1	Not working
6	Hot Plate	1	Not working
7	Hot Air Oven	1	Not working
8	Digital Temperature Indicator Cum cont.	1	Not working
9	Digital Conductiviter	1	Not working
10	Spectro Photo Meter	1	Not working
11	Microprocessor Based Flamephotometer	1	Not working
12	Digital PH Meter Toshniwal CL 54	1	Not working
13	Ishimadzu Electronic Portable Balance	2	Not working
14	Mrida Prarikshak (Soil Testing Kit)	2	Not working

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,	50	-
February	Trainings	Demonstration	15	20 Demo (Agri Drone)
March	Awareness	Awareness camp	5	15 ha(Seed hub)
April	Field day	Awareness camp	50	-
May	Awareness	Awareness camp	45	-
June	Demonstration	Demonstration	20	20 Demo (Agri Drone)
July	Trainings	Demonstration	5	10 ha(Seed hub)
August	Trainings	Demonstration	35	30 Demo (Agri Drone)
September	Trainings	Awareness camp	50	-
October	Demonstration	Demonstration	5	50 ha(Seed hub)
November	Trainings, Awareness	Demonstration	35	40 Demo (Agri Drone)
December	Trainings	Demonstration	45	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
Piegonpea	Kharif	BDN-716, Rajeshwari	Pulses	50

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	J.R. 206, JR. 81, JR 10 Swarna Sub-1, C.R. Paddy 310, CR Paddy 311, CR Paddy 314, CR Paddy 313, CR Paddy 411, Unnat Chinnaur, Jeerashankar, Kranti		1000
Pigeon pea	Kharif	PKV-TARA,TJT 501, Rajiv Lochan		300
Wheat	Rabi	JW 3336, JW 3382, HI 1634, HI 1650, HI 8737, HI 1544, GW 322, JW 1202, HD-2932,		400
Gram	Rabi	JG 24, JG 14, JG-130, JG 36, JG 16		300
Linseed	Rabi	JLS 27, JLS 148, JLS 95, INDRA 32, JLS 79, JLS 66, KBA 4, JLS67		100
Mustard	Rabi	RH 0749, RH 0725, Jay Kisan, Giriraj		100
Vegetables	Rabi	Chilli, Garlic, Brinjal, Tomato, Onion and GourdArka Rakshak, N.S.-1701, Harshita, Nashik Red, Summer Prolific Round		50

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sqm)	Output /Production
Natural farming Kharif 2023	Brinjal	200	50 kg
	Ginger	100	20kg
	Kodo	100	10 kg
	Kutki	100	10 kg
	Tomato	100	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

Year of sanction:-2002

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. V.K. Verma	Betulbazar, Betul(M.P.)	9425637718	kvkbetul@rediffmail.com

1.2 Staff Position on (31th Dec.2023)

[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 15 May 2024
2	Pre Rabi 24 Oct. 2024

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)	374057
Gross cropped area(ha)	778750
Kharif(ha)	413700
Rabi (ha)	374057
Summer(ha)	25850
Agricultural waste land	29200
Cropping Intensity	179.6%

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	2,03,000	153.5	7.60
2	Maize	1,67,800	400.42	24.84
3	Paddy	33,300	118.7	35.87
4	Wheat	2,75,500	1005.860	38.00
5	Gram	56,400	79.500	15.00
6	Sugarcane	19,900	122.400	7200

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0	31	10
Feb. 2023	0	32	9
Mar. 2023	47.50	36	15
Apr. 2023	92.5	41	18
May. 2023	45.0	44	19
Jun. 2023	155.0	43	24
July. 2023	440.0	37	22

Aug. 2023	175.0	35	22
Sept. 2023	417.0	37	22
Oct. 2023	0	36	19
Nov. 2023	42.5	34	15
Dec. 2023	0	-	-

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

Category	Population	Production	Productivity
Cattle	296078	-	-
Buffalo	157406	-	-
Sheep	2360	-	-
Goats	233219	-	-
Pigs Crossbred/ Indigenous	3454	-	-
Rabbits	413	-	-
Poultry	525215	-	-
Hens	148060	-	-

Details of Operational area / Villages (2024)

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, Mustard, Linseed, Lentil	Below	Below
			Yenkheda			
			Urdan, Sakadehi, Gehurash, Gohachi			

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
18	90	2 CFLD+5 FLD	50+25

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2000	159	MASS

Seed Production (Qtl.)	Planting material (Nos.)
390+1000	1,00,000.00

B. Abstract of interventions to be undertaken

Kharif 2024

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.
	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 on Beauveria bassiana in Soybean to control leaf defoliator	Integrated Pest Management	Integrated Pest Management	Field Days Kisan Mela	-
	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		Integrated Disease Management	Productivity enhancement in field crops		-
	KVK Betul	Soybean	Low yield of soybean due to Sulphur deficiency.	Assessment of Bentonite sulphur on yield of soybean	-	Off-season vegetables Protective cultivation	Productivity enhancement in field crops	Awareness programmes Kisan Gosthi/Farmers Meeting	-
	KVK Betul	Soybean	Reducing in yield due to infestation of weed.	Assessment of Sodium Acifluorfen 16.5% + Clodinafop 8% EC to control weed in soybean	-	Green Houses, Shade Net etc.) Management of young plants/orchards) Plantation crops Production and Management technology) Medicinal and Aromatic Plants Dairy Management	Integrated Nutrient management	Diagnostic Visit to farmers Fields Farmers Visit to KVK Exhibitions Film Shows Radio Programmes TV talks Newspaper Coverage Scientist visit to farmers field	-
	KVK Betul	Kodo	Low yield due to old varieties and Broadcasting sowing method	Assessment of Kodo variety JK 9-1 under different sowing method	Demonstration on Soybean variety JS 20-116	Weed Management Cropping Systems	Integrated Nutrient management		-
	KVK Betul	Kutki	Low yield due to old varieties and Broadcasting sowing method.	Assessment of Kutki variety JK-95 under different sowing method		Crop Diversification Seed	Production and use of organic		-

						production Nursery management Integrated Crop Management	inputs		

Rabi 2024-25									
	KVK Betul	Mustard	Sucking pest causes severe loss in mustard yield	Assessment of IPM module to manage Aphid (Myzus persicac) in mustard	-	Integrated Pest Management Integrated	Productivity enhancement in field crops	Field Days	-
	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)	-	Integrated Disease Management Bio- control of pests and diseases Production of bio control agents and bio pesticides	Integrated Pest Management	Kisan Mela Awareness program mes Kisan Gosthi/ Farmers Meeting Diagnostic Visit to farmers Fields	-
	KVK Betul	chickpea	Low yield of chickpea due to weed infestation.	Assessment of Post emergent weedicide in chickpea	Demonstration of Bio fertilizers in Wheat	Weed Management Cropping Systems Crop Diversification Seed production Nursery management Integrated Crop Management	Protected cultivation technology	Farmers Visit to KVK	-
	KVK Betul	Wheat	Low yield of wheat due to weed infestation.	Assessment of Clodinafop- propargyl+Metsulfuron to control wild oat in Wheat.			Integrated Nutrient management	Exhibitions Film Shows Radio Program mes TV talks Newspaper Coverage	-
	KVK Betul	Linseed	Low yield due to old varieties and broadcasting sowing method	Assessment of Linseed variety JLS-122 under different spacing	-	Soil fertility management Soil and Water	Capacity building for ICT application	Scientist visit to farmers field	-
	KVK Betul	Wheat	Low yield of existing variety HI 1544	Assessment of high-yielding, durum and aestivum wheat varieties	-	Conservation Production and use of organic inputs Soil and Water Testing Leadership development	-		-

						ment Group dynami cs Formati on and Manage ment of SHGs Mobiliz ation of social capital Entrepr eneurial develop ment of farmers/ youths			
	KVK Betul	Farm waste	Farm waste requires longer period for decomposition	Assessment of Jawahar Bio- decomposer for farm waste decomposition	Demonstratio n of Happy seeder sowing of Wheat	Formati on and Manage ment of SHGs, Entrepr eneurial develop ment of farmers/ youths, Producti vity enhance ment in field crops	Group Dynamics and farmers organizati on	Field Days Kisan Mela	
	KVK Betul	Mulcher machine	Reduction of organic carbon % due to burning of crop residue	Assessment of mulcher machine in Sugarcane for Natural resource conservation		Capacity building for ICT applicatio n	Awarene ss program mes		
	KVK Betul	SHG	Poor knowledge about SHG recommendation	Assessment of knowledge & adoption of soil health card based fertilizer application (Case Study)		Livestock feed and fodder production	Kisan Gosthi/ Farmers Meeting		
Home Science 2024-25									
	KVK Betul	Puffed products of millets	Iron deficiency in children.	Assessment of Rajgira puff for nutritional benefits	Demonstratio n on Nutritional Kitchen garden	Househ old food security by kitchen gardeni ng and nutritio n	Income generation activities for empower ment of rural Women	Diagnost ic Visit to farmers Fields Farmers Visit to KVK	- -
	KVK Betul	Mango processing	Green mature mango dropped from tree were dumped/ sold at lower price	Assessment of income generation through green Mango processing.		Location specific drudgery reduction technologi es	Exhibitio ns Film Shows	-	
	KVK Betul	Nutritional security	Use of higher chemical in field.	Study on nutritional composition and cooking quality (WAC) of Wheat in Natural and chemical farming.		Household food security by kitchen gardening and nutrition gardening	Radio Program mes TV talks Newspap er Coverage Scientist visit to farmers field	-	

						activities for empowerment of rural 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	Others	TOTAL
Plant Protection	2	2	0	-	-	-	-	-	-	4
INM	-	-	-	-	-	-	-	-	-	-
Crop production	1	2	1	-	-	-	-	-	-	4
Natural farming	1	-	-	-	-	-	-	-	-	1
Variety evaluation	3	1	-	-	-	-	-	-	-	4
Nutritional security	-	-	-	-	-	-	-	-	-	-
Income generation	1	-	-	-	-	-	-	-	-	1
Agriculture Extension	1	-	-	-	-	-	-	-	2	3
Value addition and processing	1	-	-	-	-	-	-	-	-	1
TOTAL	10	5	1	-	-	-	-	-	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:

Kharif-2024

Name of Discipline	Plant Protection
Title of on-farm trial: 1 (2nd Year)	Assessment of sowing time in sorghum, against shoot fly & stem borer
Year/Season:	Kharif/2024
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 incidence.
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 (2nd Year)	Assessment of Beauveria bassiana against FAW (S. frugiperda) in Maize
Year/Season:	Kharif/2024
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 benzoate) at outbreak of pest
T2 –Recommended Practice-	Application of Beauveria bassiana at 30 DAE @ 1 lit./ha
T3- Recommended Practice-	Application of Beauveria bassiana at 30 & 45 DAE @ 1 lit./ha
Date of sowing:	June 2024
Date of harvesting:	Oct. 2024
Source of technology:	JNKVV 2019
Characteristics of technology:	<i>Beauveria bassiana</i> is eco-friendly, cost effective bio agent for the pest management.
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	Agronomy
Title of on-farm trial: 3 (1st Year)	Assessment of Bentonite sulphur on yield of soybean
Year/Season:	Kharif/2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of soybean due to Sulphur deficiency.
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-	Application of DAP (100 kg/ha)
T2 –Recommended Practice-	Application of RDF (20:60:40), NPK (100 kg DAP : 5 lit. KSB+FYM)
T3- Recommended Practice-	T2+25 kg Bentonite Sulphur
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IISR-Indore 2021
Characteristics of technology:	Application Bentonite Sulphur will improve the growth and yield of soybean.
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 (Farmers Practice)	T2(Recommend ed Practice)	T3(Recommend ed Practice)
Root length	cm.			
Branches/ Plants	No.			
Yield	q/ha			

Name of Discipline	Agronomy
Title of on-farm trial: 4 (1st Year)	Assessment of Sodium Acifluorfen 16.5% + Clodinafop 8% EC to control weed in soybean
Year/Season:	Kharif/2024
Farming situation:	Rainfed
Problem diagnosis:	Reducing in yield due to infestation of weed.
Thematic area:	Weed Management
No of trials:	5

No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Imazethyper 100 gm/ha at 25 DAS
T2 –Recommended Practice-	Application of Imazethyper+ Imizamox @ 70 gm a.i. /ha at 20 days after sowing
T3- Recommended Practice-	Application of Sodium Acifluorfen 16.5% + Clodinafop 8% gm a.i./ha at 20 days after sowing
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRC Weed Science Jabalpur 2022
Characteristics of technology:	(Sodium Acifluorfen 16.5% + Clodinafop 8%) weedicide will help to control grassy and broad-leaf weed in soybean
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)
Weed/sqm	cm.			
Branches/Plants	No.			
Yield	q/ha			

Name of Discipline	Plant Breeding
Title of on-farm trial: 5 (1st Year)	Assessment of Kodo variety JK 9-1 under different sowing method
Year/Season:	Kharif/2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old varieties and Broadcasting 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-	Old variety JK 55 with broadcasting
T2 –Recommended Practice-	JK 9-1 variety with 30 cm line sowing
T3- Recommended Practice-	JK 9-1 variety with 45 cm line sowing
Date of sowing:	-

Date of harvesting:	-
Source of technology:	JNKVV 2023
Characteristics of technology:	Insect resistant, profuse tillering and high-yielding 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	q/ha			

Name of Discipline	Plant Breeding
Title of on-farm trial: 6 (1st Year)	Assessment of Kutki variety JK-95 under different sowing method
Year/Season:	Kharif/2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old varieties and Broadcasting 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 JK-8 with broadcasting
T2 –Recommended Practice-	Kutki variety JK -95 with line sowing at 30 cm
T3- Recommended Practice-	Kutki variety JK -95 with line sowing at 45 cm
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2023
Characteristics of technology:	Long duration (100 days) timely sown 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-2024-25

Name of Discipline	Plant Protection
Title of on-farm trial: 7 (2nd Year)	Assessment of IPM module to manage Aphid (Myzus persicac) in mustard
Year/Season:	Rabi/2024-25
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 Verticillium lecenii at 55 and 75 DAE
T3- Recommended Practice-	T2+intercropping with chickpea (8:2)
Date of sowing:	Oct. 2024
Date of harvesting:	Feb 2025
Source of technology:	DRMR-2016
Characteristics of technology:	IPM for Aphid management is eco friendly and cost effective.
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)
Pest intensity/5sqm	No.			
Test weight of grain	gm			
Yield	q/ha			

Name of Discipline	Plant Protection
Title of on-farm trial: 8 (2nd Year)	Assessment of Trichoderma viride against soil born diseases (collar rot, wilt in linseed)
Year/Season:	Rabi/2024-25
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 T.viride@ 2.5 kg/ha at sowing time
Date of sowing:	Oct. 2024
Date of harvesting:	Feb 2025
Source of technology:	JNKVV 2018
Characteristics of technology:	Trichoderma viride is cost effective and synergistic along with chemical seed treatment to control soil born diseases.
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	No.			

collar rot				
No. of wilted plant	Nos.			
Grain Yield	q/ha			

Name of Discipline	Agronomy
Title of on-farm trial: 9 (1st year)	Assessment of Post emergent weedicide in chickpea
Year/Season:	Rabi/2024-25
Farming situation:	irrigated
Problem diagnosis:	Low yield of chickpea due to weed infestation.
Thematic area:	Integrated Nutrient 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 weedicide application.
T2 –Recommended Practice-	Application of Pendimethalin @ 0.75 kg a.i./ha at 0-3 days after sowing
T3- Recommended Practice-	Application of Quizalofop ethyl @ 40 gm ai/ha 20 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRC Weed Science 2021
Characteristics of technology:	Application of post emergent weedicide Quizalofop ethyl reduced the weed population.
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)
Weeds/sqm	No.			
Pods/ Plant	Nos.			
Yield	q/ha			

Name of Discipline	Agronomy
Title of on-farm trial: 10 (1st year)	Assessment of Clodinafop-propargyl+Metsulfuron to control wild oat in Wheat.
Year/Season:	Rabi/2024-25
Farming situation:	irrigated
Problem diagnosis:	Low yield of wheat due to weed infestation.
Thematic area:	Weed 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-	Application of 24D 400 gm/ha at 30 DAS
T2 –Recommended Practice-	Application of Metsulfuron+Iodosulfuron methyl sodium @12 +2.54 gm ai/ ha at 30 DAS
T3- Recommended Practice-	Application of Clodinafop-propargyl+Metsulfuron @ 60 + 4 gm /ha at 30 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRC Weed Science 2022
Characteristics of technology:	Clodinafop-propargyl+Metsulfuron will control wild oat in Wheat.
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/sqm	No.			
Tillers/ Plants	No.			
Yield	q/ha			

Name of Discipline	Plant Breeding
Title of on-farm trial: 11 (1st Year)	Assessment of Linseed variety JLS-122 under different spacing
Year/Season:	Rabi/2024-25
Farming situation:	irrigated
Problem diagnosis:	Low yield due to old varieties and broadcasting 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-	Old variety JLS-9 with broadcasting.
T2 –Recommended Practice-	Linseed variety JLS-122 with 30 cm spacing
T3- Recommended Practice-	Linseed variety JLS-122 with 45 cm spacing
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2022
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			

Title of on-farm trial: 12 (1st Year)	Assessment of high-yielding, durum and aestivum wheat varieties
Year/Season:	Rabi/2024-25
Farming situation:	irrigated
Problem diagnosis:	Low yield of existing variety HI 1544
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-	Verity HI 1544
T2 –Recommended Practice-	Use of High yielding durum variety Pusa Tejas
T3- Recommended Practice-	Use OF High yielding aestivum variety HI 1650
Date of sowing:	-
Date of harvesting:	-

Source of technology:	IARI Indore 2022
Characteristics of technology:	High yielding, Good chapatti / Dalia making quality, Timely sown and suitable for irrigated condition.
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 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Spike length	cm			
No of tiller/plant	No			
Yield	q/ha			

Information about **Extension OFT:**

Title of on-farm trial: 13 (2nd Year)	Assessment of Jawahar Bio-decomposer for farm waste decomposition
Year/Season:	Rabi/2024-25
Farming situation:	Semi-irrigated
Problem diagnosis:	Farm waste requires longer period for decomposition
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-	Open pit
T2 –Recommended Practice-	Vermi Composting pit
T3- Recommended Practice-	T2 +Jawahar Bio-decomposer(5 ml/liter water)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2018
Characteristics of technology:	The bio-agent used as decomposer will enhance the process of decomposing the farm waste. It is low cost and eco-friendly technology
Name of Crop/Enterprises:	Farm waste
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Decomposition duration	(days)			
Decomposition	(%)			
Production of compost	q/unit/year			

Title of on-farm trial: 14 (2nd Year)	Assessment of mulcher machine in Sugarcane for Natural resource conservation
Year/Season:	Rabi/2024-25
Farming situation:	Irrigated / Sugarcane crop
Problem diagnosis:	Reduction of organic carbon % due to burning of crop residue
Thematic area:	Natural Farming
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-	Burning of crop residue
T2 –Recommended Practice-	Mulcher Machine application in Sugarcane after harvesting
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	PAU Ludhiana, 2012
Characteristics of technology:	Save labour requirement and crop residue management
Name of Crop/Enterprises:	Mulcher machine
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Organic Carbon	%			
Yield	q/ha			

OFT : 15 (Round the Year)	Assessment of knowledge & adoption of soil health card based fertilizer application (Case Study)
Season & Year	Round the year/ 2024
Problem identified	Poor knowledge about SHG recommendation
Thematic Area	CBD
Farming situation	All crops
Name of Technology under study	Testing the knowledge and adoption of soil health card for SHC based recommendation by farmers
Farmers Practice	Farmers are not using fertilizers as per SHG recommendation
No. of replication (Farmers)	2 panchayat from each block will be selected randomly. Fifteen respondents from each panchayat will also be selected at random bases. The primary data will be collected with the help of structured interview schedule by involving RAWA students and extension workers of the district, after collection the data, they will be analyze statistically

Results / findings

Performance indicators/ parameters	Unit/ details
Age, Education, Family size, Social Participation, Extension Participation, Mass media Exposure, Land holding, Family Income, Feed back	Yrs, Class, Nos, ha and Rs/year etc

Information about Home Science OFT:

Name of Discipline	Food Science
Title of on-farm trial: 16 (1st Year)	Assessment of Rajgira puff for nutritional benefits
Year/Season:	2024 / Whole Year
Problem diagnosis:	Iron deficiency in children.
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-	T1+Incorporation of 50gm/day Rajgira puff with regular diet for 30 days
Source of technology:	IIMR Hyderabad
Characteristics of technology:	Millets 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	Observations			
			Weight (Kg)	Hemoglobin (g)		
			Pre	Post	Pre	Post
T ₁ (Farmers Practices)	Regular Diet	-				
T ₂ (Recommended)	Incorporation of Rajgira puff with regular diet for 30 days	50 gm/day				

Name of Discipline	Food Science
Title of on-farm trial: 17 (1st Year)	Assessment of income generation through green Mango processing.
Year/Season:	2024 / Whole Year
Problem diagnosis:	Green mature mango dropped from tree were dumped/ sold at lower price
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 Green mature Mango
T2 –Recommended Practice-	Green mature mango processing in amchur
Source of technology:	BSKKV 2020
Characteristics of technology:	Mango processed into amchur
Name of Crop/Enterprises:	Mango 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)
T ₁ (Farmers Practices)	Selling of Green mature Mango					
T ₂ (Recommended Practices)	Green mature mango processing in amchur					

Name of Discipline	Food Science
Title of on-farm trial: 18 (2nd Year)	Study on nutritional composition and cooking quality (WAC) of Wheat in Natural and chemical farming.
Year/Season:	2024 / Whole Year
Problem diagnosis:	Use of higher chemical in field.
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-	Nutritional composition and cooking quality (WAC) of Wheat in Chemical farming
T2 –Recommended Practice-	Nutritional composition and cooking quality (WAC) of Wheat in Natural farming
Source of technology:	CFTRI Mysore
Characteristics of technology:	Study of comparison between protein content.
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	Nutritional composition						Cooking quality (WAC)
		Energy (kcal)	Protein (g)	Carbohydrates (g)	Fat (g)	Minerals (mg)	Energy (kcal)	
T₁(Farmers Practices)	Nutritional composition and cooking quality (WAC) of Wheat in Chemical farming							
T₂(Recommended)	Nutritional composition and cooking quality (WAC) of Wheat in Natural farming							

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	Demonstration on Beauveria bassiana in Soybean to control leaf defoliator	Beauveria bassiana	Kharif 2024	2.0	5	-
2	Soybean	Crop production	Demonstration on Soybean variety JS 20-116	Seed	Kharif 2024	2.0	5	-
3	Wheat	Crop production	Demonstration of Bio fertilizers in Wheat	Bio fertilizers	Rabi 2024-25	2.0	5	-
4	Wheat	Crop production	Demonstration of Happy seeder sowing of Wheat	Happy seeder	Rabi 2024-25	2.0	5	
5	Nutritional Kitchen garden	Nutritional Security	Demonstration on Nutritional Kitchen garden	Nutritional Kitchen garden	Rabi 2024-25	1.0	5	-

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	October 2024	75
2	Farmers Training	3	November 2024	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 (2024-25)

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	2024	20.0	50	Yield, B:C ratio, Pest and disease incidence
2	Niger	Varital Valuation Kharif (CFLD)	BBF, Line sowing	Seed	2024	10.0	25	Yield, B:C ratio, Pest and disease incidence
3	Chickpea	Crop production	(CFLD) R & F, BBF,IPM	Seed	2024-25	30.0	75	Yield, B:C ratio, Pest and disease incidence
4	Mustard	Crop production	BBF, Line sowing	Seed	2024-25	10.0	25	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 2024	75
2	Farmers Training	3	November 2024	100
3	Media coverage	2	-	MASS

Production and Management technology	1	1	8	5	13	10	2	12	25
Total	1	1	8	5	13	10	2	12	25
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0
Production and management technology	1	1	15	2	17	8	0	8	25
Total	3	3	30	15	45	25	5	30	75
Grand total (Horticulture)	3	3	30	15	45	25	5	30	75
III Soil Health and Fertility Management									
Soil fertility management	1	1	7	5	12	9	4	13	25
Soil and Water Conservation	1	1	5	0	5	18	2	20	25
Integrated Nutrient Management	1	1	9	2	11	11	3	14	25
Production and use of organic inputs	1	1	14	1	15	7	3	10	25
	1	1	4	9	13	10	2	12	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	1	1	12	2	14	8	3	11	25
Soil and Water Testing	0	0	0	0	0	0	0	0	0
Total	6	6	51	19	70	63	17	80	150
IV Livestock Production and Management									
Dairy Management	0	0	0	0	0	0	0	0	0
Poultry Management	1	1	9	1	10	12	3	15	25
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	1	1	9	1	10	12	3	15	25
V Home Science/Women empowerment									
Household food security by kitchen gardening and	1	1	12	2	14	7	4	11	25

nutrition gardening									
Design and development of low/minimum cost diet	1	1	7	2	9	11	5	16	25
Designing and development for high nutrient efficiency diet	1	1	18	0	18	7	0	7	25
Minimization of nutrient loss in processing	1	1	5	0	5	15	5	20	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0
Value addition	1	1	1	7	8	2	15	17	25
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0
Total	5	5	43	11	54	42	29	71	125
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	2	2	24	10	34	10	6	16	50
Integrated Disease Management	1	1	5	10	15	8	2	10	25
Bio-control of pests and diseases	1	1	12	2	14	5	6	11	25
Production of bio control agents and bio pesticides	1	1	10	3	13	12	0	12	25
Total	5	5	51	25	76	35	14	49	125
VIII Fisheries									
Integrated fish farming	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site									
Vermi-compost production	1	1	12	5	17	5	3	8	25

Integrated Nutrient management	0	0	0	0	0	0	0	0	0
Protected cultivation technology	1	1	5	3	8	12	5	17	25
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	1	1	10	4	14	7	4	11	25
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	1	1	12	6	18	4	3	7	25
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0
TOTAL	4	4	41	16	57	28	15	43	100

B) OFF Campus

[illegible]

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 Testing	0	0	0	0	0	0	0	0	0
Total	4	4	35	8	43	45	12	57	100
IV Livestock Production and Management									
Dairy Management	0	0	0	0	0	0	0	0	0
Poultry Management	1	1	5	0	5	18	2	20	25
Disease Management	1	1	9	2	11	11	3	14	25
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	2	2	14	2	16	29	5	34	50
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	1	12	2	14	7	4	11	25
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	1	1	18	0	18	7	0	7	25
Minimization of nutrient loss in processing	1	1	5	0	5	15	5	20	25
Gender mainstreaming through SHGs	1	1	11	2	13	10	2	12	25
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0
Value addition	1	1	14	1	15	10	0	10	25
Income generation activities for empowerment of rural Women	1	1	10	2	12	13	0	13	25

Production of organic inputs	1	1	4	2	6	15	4	19	25
Sheep and goat rearing	0	0	0	0	0	0	0	0	0
TOTAL	1	1	4	2	6	15	4	19	25
(C) Extension Personnel									
Productivity enhancement in field crops	1	1	5	1	6	10	9	19	25
Livestock feed and fodder production	1	1	10	9	19	6	0	6	25
Production and use of organic inputs	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	1	1	13	5	18	5	2	7	25
TOTAL	3	3	28	15	43	21	11	32	75

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

On Campus									
Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants					
				Others			Number of SC/ST		
				Male	Female	Total	Male	Female	Total
Crop Production									
January	F &FW	Weed Management	2	14	11	25	15	10	25
February	F &FW	Resource Conservation Technologies	2	17	10	27	18	5	23
March	F &FW	Integrated Farming	2	10	8	18	22	10	32
September	F &FW	Water management	2	8	5	13	28	9	37
October	F &FW	Seed production		22	15	37	8	5	13
November	F &FW	Integrated Crop Management	2	13	12	25	18	8	26
Horticulture									
January	F &FW	Off-season vegetables	0	0	0	0	0	0	0
February	F &FW	Protective cultivation (Green Houses, Shade Net etc.)	1	2	6	8	12	5	17
March	F &FW	Management of young plants/orchards	1	10	5	15	8	2	10
September	F &FW	d) Plantation crops	0	0	0	0	0	0	0

October	F &FW	Production and Management technology	1	8	6	14	7	4	11
November		g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0
Livestock production	F &FW	Dairy Management	1	15	2	17	5	3	8
January	F &FW	Household food security by kitchen gardening and nutrition gardening	1	4	1	5	15	5	20
February	F &FW	Design and development of low/minimum cost diet	0	0	0	0	0	0	0
March	F &FW	Designing and development for high nutrient efficiency diet	1	7	4	11	8	6	14
September	F &FW	Minimization of nutrient loss in processing	1	18	2	20	5	0	5
October	F &FW	Gender mainstreaming through SHGs	1	5	2	7	15	3	18
November	F &FW	Value addition	1	2	6	8	12	5	17
	F &FW	Income generation activities for empowerment of rural Women	1	9	1	10	15	0	15
December	F &FW	Women and child care	1	0	2	2	15	8	23
Plant Protection									
January	F &FW	Integrated Pest Management	1	8	2	10	10	5	15
February	F &FW	Integrated Disease Management	1	4	12	16	2	7	9
March	F &FW	Bio-control of pests and diseases	1	8	2	10	10	5	15
September	F &FW	Production of bio control agents and bio pesticides	0	0	0	0	0	0	0
Production of Inputs at site	F &FW	Vermi-compost production	1	7	4	11	8	6	14
	F &FW	Organic manures production	1	18	2	20	5	0	5
Agriculture Extension (Capacity Building and Group Dynamics)									
January	F &FW	Leadership development	1	7	4	11	8	6	14
February	F &FW	Group dynamics	1	18	2	20	5	0	5

March	F &FW	Formation and Management of SHGs	1	5	2	7	15	3	18
September	F &FW	Mobilization of social capital	0	0	0	0	0	0	0
	F &FW	Entrepreneurial development of farmers/youths	1	4	1	5	15	5	20
Soil Science									
January	F &FW	Soil fertility management	1	18	2	20	5	0	5
February	F &FW	Soil and Water Conservation	1	5	2	7	15	3	18
March		Production and use of organic inputs	1	2	6	8	12	5	17
September		Soil and Water Testing	1	18	2	20	5	0	5

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants					
				Others			Number of SC/ST		
				Male	Fema le	Total	Male	Female	Total
Crop Production									
January	F &FW	Weed Management	2	17	10	27	18	5	23
February	F &FW	Cropping Systems	2	10	8	18	22	10	32
March	F &FW	Crop Diversification	2	12	10	22	15	13	28
September	F &FW	Seed production	2	16	15	31	12	7	19
October	F &FW	Nursery management	2	8	5	13	28	9	37
November	F &FW	Integrated Crop Management	2	15	15	30	15	5	20
Horticulture									
January	F &FW	Export potential vegetables	1	18	2	20	5	0	5
February	F &FW	Protective cultivation (Green Houses, Shade Net etc.)	1	5	2	7	15	3	18
March	b) Fruits	Cultivation of Fruit	0	0	0	0	0	0	0
September	F &FW	Management of young plants/orchards	0	0	0	0	0	0	0
October	F &FW	Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0
November		d) Plantation crops	0	0	0	0	0	0	0
December	F &FW	g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0
Livestock production									
	F &FW	Disease	1	6	1	7	10	8	18

		Management							
Home Science									
January	F &FW	Household food security by kitchen gardening and nutrition gardening	1	7	4	11	8	6	14
February	F &FW	Design and development of low/minimum cost diet	1	18	2	20	5	0	5
March	F &FW	Minimization of nutrient loss in processing	1	5	2	7	15	3	18
September	F &FW	Gender mainstreaming through SHGs	1	2	6	8	12	5	17
October	F &FW	Value addition	1	9	1	10	15	0	15
November	F &FW	Income generation activities for empowerment of rural Women	1	10	4	14	10	1	11
December	F &FW	Women and child care	1						
Plant Protection									
January	F &FW	Integrated Pest Management	1	17	2	19	6	0	6
February	F &FW	Integrated Disease Management	1	7	5	12	12	1	13
March	F &FW	Bio-control of pests and diseases	1	5	2	7	15	3	18
October	F &FW	Production of bio control agents and bio pesticides	1	2	6	8	12	5	17
Agriculture Extension (Capacity Building and Group Dynamics)									
January	F &FW	Leadership development	1	18	2	20	5	0	5
February	F &FW	Group dynamics	1	5	2	7	15	3	18
March	F &FW	Entrepreneurial development of farmers/youths	1	2	6	8	12	5	17
Soil Science									
April	F &FW	Soil fertility management	1	12	5	17	5	3	8
June	F &FW	Soil and Water Conservation	1	10	2	12	10	3	13
September	F &FW	Production and use of organic inputs	1	8	2	10	12	3	15
October	F &FW	Micro nutrient deficiency in crops	0	0	0	0	0	0	0
November	F &FW	Nutrient Use Efficiency	1	2	6	8	12	5	17
December	F &FW	Soil and Water Testing	1	9	1	10	15	0	15

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	Fem ale	To tal	
Crop Production										
August	FW	Training on solarization for nursery management	5	10	7	17	3	5	8	25
September	FW	Training on rouging seed production program	5	5	9	14	3	11	11	25
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
September	FW	Training on multiplication and uses of various bio agents	5	12	4	16	7	2	9	25
Plant Protection										
October	FW	Training on Vermi-composting	5	10	9	19	5	1	6	25
November	FW	Training on production and valve of Mushroom	5	5	10	15	10	0	10	25
December										
Agriculture Extension (Capacity Building and Group Dynamics)										
August	FW	Training on capacity building and management	5	8	4	12	10	3	13	25
September	FW	Training on repair and maintenance of tractor and it implements	5	10	3	13	7	5	12	25
October	-	-	-	-	-	-	-	-	-	-
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										
January	FW	Protected cultivation	2	8	5	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	
		technology								
February	FW	Productivity enhancement in field crops	2	10	0	10	8	7	15	25
March		Production and use of organic inputs	2	10	3	13	9	3	12	25
Horticulture										
April	FW	Integrated Nutrient management	2	15	2	17	8	0	8	25
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July	FW	Integrated Pest Management	2	15	4	19	5	0	5	25
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
April	FW	Group Dynamics and farmers organization	2	5	15	20	5	0	5	25
May	FW	Capacity building for ICT application	2	16	1	17	5	3	8	25
June	FW	Gender mainstreaming through SHGs	2	10	3	13	5	7	12	25
Soil Science										
-	-	-	-	-	-	-	-	-	-	-

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 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)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	-	-	-	-	-	-	-	-	-
Kisan Mela	2	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	4	-	-	-	-	-	-	-	-	-
Exhibition	4	-	-	-	-	-	-	-	-	-
Film Show	5	-	-	-	-	-	-	-	-	-
Method Demonstrations	1	-	-	-	-	-	-	-	-	-
Farmers Seminar	1	-	-	-	-	-	-	-	-	-
Workshop	1	-	-	-	-	-	-	-	-	-
Group meetings	2	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	1	-	-	-	-	-	-	-	-	-
Newspaper coverage	20	-	-	-	-	-	-	-	-	-
Radio talks	5	-	-	-	-	-	-	-	-	-
TV talks	8	-	-	-	-	-	-	-	-	-
Popular articles	8	-	-	-	-	-	-	-	-	-
Extension Literature	1	-	-	-	-	-	-	-	-	-
Advisory Services	30	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	20	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	50	-	-	-	-	-	-	-	-	-
Diagnostic visits	30	-	-	-	-	-	-	-	-	-
Exposure visits	5	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	1	-	-	-	-	-	-	-	-	-
Soil health Camp	1	-	-	-	-	-	-	-	-	-
Animal Health Camp	1	-	-	-	-	-	-	-	-	-
Agri mobile clinic	1	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	1	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	1	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	1	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	1	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	212	-	-	-	-	-	-	-	-	-

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-		
OILSEEDS	Soybean	JS 21-72	150**
PULSES	Chickpea, Green gram, Pegen pea	JG 24, JG 18	160**
		RVG 202,	700*
		MH 421	150*
		BDN 716	150*
VEGETABLES	Coriander, Ginger Turmeric	Ajmer-1	5
		Mahima	1
		Rajendra solani	5
		Selam	5
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

* Seed hub project.

**KVK Instructional Farm.

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-	-	-
SPICES	-	-	-
VEGETABLES	Tomato, Chilli, Brinjal, cucurbits etc.	-	1,00,000.00
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Other Seed Produce	Okra, Drumstick, Coriander, Ginger, Garlic, Turmeric, Arbi, Indian Bean,		10 q
Others (specify) Samplings	Drumstick, Mango, Guava, Citrus	-	4000.00

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS			-	-
1	Trichoderma	500	-	-
2	Rhizobium	500	-	-
3	Beauveria bassiana	1000(Lit.)	-	-
4	Metarhizium anisopliae	500	-	-
5	Pseudomonas fluorescens	500	-	-
6	Verticillium	200	-	-
7	Panchagavya		-	-
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	Neemastra			
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 2024	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.	Gohachi	Betul	15	FLD / OFT/CFLD/ Trainings/ Awareness camp/ Field Day
8.	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 equipment's 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	1000	1000	6	-
Water Samples	-	-	-	-
Total	1000	1000	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 2024

Total Area of Crop cafeteria: 630 Sqm

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 95-60	Short duration	30
		JS 20-34	Short duration	30
		JS 20-29	Medium duration	30
		JS 20-98	Medium duration	30
		JS 93-05	Medium duration	30
		RVS 2001-04	Medium duration	30
		RVS 2001-08	Medium duration	30
		NRC-7	Long duration	30
		JS 97-52	Long duration	30
Sesamum		TKG-306	Oilseed duration	30
		TKG-308	Oilseed	30
		TKG-22	Oilseed	30
		TKG-55	Oilseed	30
Kodo			JK 55	Minor millet

Kutki		JK 137	Minor millet	30
		JK198	Minor millet	30
		JK 98	Minor millet	30
		JK 8	Minor millet	30
		JK 36	Minor millet	30
		JK-4	Minor millet	30
Mustard	Rabi 2024-25	Pusa Mustard 25	Oilseed	30

Rabi 2024-25

Planning for Crop Cafeteria:- Rabi 2024-25

Total Area of Crop cafeteria: 720 Sqm

Wheat	Season	DBW 187	Irrigated	30
	Rabi	HD 3226	Irrigated	30
		HD 2967	Irrigated	30
		HD 8759	Irrigated	30
		MP 1202	Semi Irrigated	30
		HI 1544	Semi Irrigated	30
		MP 3382	Rainfed	30
		MP 3288	Rainfed	30
		MP 3336	Rainfed	30
		MP 3211	Rainfed	30
JG 14		Rainfed	30	
JG 11		Rainfed	30	
JG 130		Rainfed	30	
JG 24		Rainfed	30	
JG 36		Rainfed	30	
RVG 201		Rainfed	30	
RVG 202		Rainfed	30	
RVG 203		Rainfed	30	
Chickpea		JLS 09	Rainfed	30
		JLS 27	Rainfed	30
	JLS 67	Rainfed	30	
	JLS 73	Rainfed	30	
	JLS 45	Rainfed	30	
	JLS 9	Rainfed	30	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Nursery	Tomato, Brinjal, Chili	160 sqm	2,00,000 Seedling/ Year
Crop cafeteria	Kharif Rabi and Summer	4000 sqm	All Rabi and Kharif Crop
Vermi Compost	Vermi composting	36.75 feet	54 q
Azolla	Azolla	3 beds	5 q
Goat	Goat	600 feet	4
Quail	Japani Quail	234 feet	1500 birds/year
NADEP	NADEP Compost	36.75 feet	24 q
Mother Orchard	Mango, Guava, citrus.	2500 sqm	4000 plant/year
Solar	Solar Pump	2 ha	2 ha

Agriculture farm Machinery	Tractor, Happy seeder, Cultivator, Rotavator, seed drill, disk hero	20 ha	Use in KVK Farm
Walk in Tunnel	Pineapple production	180 feet	Only for demonstration
Hydroponic	Green fodder, Leafy vegetables	90 feet	Only for demonstration
Farmer gallery	Display of technology	90 feet	Beneficiary to the farmers
Makhana	Demonstration unit	20 X 20 X 2.5 Feet	Only for demonstration
Fish farming	Improve fish farming	49 sqm	Only for demonstration
Ruff water harvesting	Water saving	200 sqm	Conservation of water in office promises.
Open class room	Farmers training	600 sqm	For the farmers training
Technology Park	Different types of flowers etc.	1200 sqm	Only for demonstration
Fodder production	Green Fodder demonstration unit	200 sqm	Facilities for improved variety to the farmers
Flower production	Improved variety French Marigold flowers	500 sqm	Only for demonstration
Exhibition	Display of different type of exhibits.	20 sqm	Only for demonstration
Low Tunnel	Production of Leafy vegetables	10 sqm	Only for demonstration
Bio fertilizer	Production of different bio fertilizers	10 sqm	2000 lit.
Natural Farming	Display of Natural farming components	-	5 drum.
Spineless cactus	Display of Spineless cactus for fodder prodcution	4 sqm	Only for demonstration
Medicinal plant	Display of Medicinal plant	160 sqm	

KVK Chhatarpur

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2023)

[illegible]

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

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	750				Completed
2	Farmers Hostel		2008	305				Completed
3	Staff Quarters (6)		2008	400				Completed
4	Demonstration Units (2)							
5	Fencing		2014	10000				Completed
6	Rain Water harvesting system							
7	Threshing floor			4225				
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		Working
Bolero(Jeep)	2019	730000		Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2010		Not working
Xerox Machine	2011		Not working
Generator	2010		Not working
Inverter 600 VA (2)	2019		Working
Inverter Battery (2)	2020		Working

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

Sl. No.	Tentative Date
1	03-02-2024
2	27-07-2024

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	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
4	AES – 4	
5	AES – 5	
6	AES – 6	

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

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	106.2
Other than cultivated area	87.5
Cultivable waste and alkaline land	51.57
Pastures	
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 (ha)
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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	92	20.2	7.2
Feb. 2023	0.0	27.9	8.9
Mar. 2023	1.0	35.6	15.3
Apr. 2023	0.0	43.1	20.9

May. 2023	23.2	43.2	25.8
Jun. 2023	86.8	40.8	26.6
July. 2023	239.8	34.4	28.8
Aug. 2023	298.5	31.2	22.4
Sept. 2023	267.0	27.1	19.3
Oct. 2023	78.9	32.3	17.4
Nov. 2023	0.0	29.8	10.8
Dec. 2023	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	Nowgong	Nowgong and Rajnagar	Singrawankala, Chokhada and Nandlalpura	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

S. No.	Particulars
1.	To facilitate the availability of seed of improved varieties of major crops (Blackgram/Groundnut /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 resources and use of Organic and Bio-fertilizer
7.	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
6	130	4	90

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

B. Abstract of interventions to be undertaken

[illegible]

Technologies to be assessed

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

[illegible]

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	TOMATO	
Title of on farm trial	Assessment of improved nursery management practices for income generation in tomato crop	
Problem diagnosed	High mortality of seedling in open field due to incidence of soil and seed born disease	
Farmers' Practices	Use flat bed	
Details of technologies selected for assessment	T ₁	Use of flat bed nursery raising. Broadcast sowing
	T ₂	Raising nursery of hybrid vegetable seedling on raised bed, line sowing and straw mulching
	T ₃	Rows can be added if necessary
Source of technology	IIHR 2014	
Plot size	0.4	
No. of farmers	06	
Total cost	68,000	
Critical input	23,000	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	230 q/ha	

OFT-2

Crop / Enterprise	Papaya	
Title of on farm trial	Assessment of improved variety (Hybrid Red Sun) of papaya	
Problem diagnosed	Low yield of Papaya due to use of local variety	
Farmers' Practices	Old Variety	
Details of technologies selected for assessment	T ₁	Old Variety
	T ₂	Hybrid Red son
	T ₃	-
Source of technology	IIVR Varansi 2017	
Plot size	0.6	
No. of farmers	05	
Total cost	95,000	
Critical input	44,440	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	510q/ha	

OFT-3

Crop / Enterprise	Chili	
Title of on farm trial	Assessment of leaf curl management in chili	
Problem diagnosed	Low yield of flower due to adaptation of old variety	
Farmers' Practices	Indiscriminate use of pesticide	
Details of technologies selected for assessment	T ₁	Indiscriminate use of pesticide
	T ₂	Spray of Acetamaprid 125 gm/ha
	T ₃	Rows can be added if necessary
Source of technology	IARI (2010)	
Plot size	0.8	
No. of farmers	07	
Total cost	63,000	
Critical input	25,000	
Performance indicators: (ix) Growth and Yield attributes (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	210 q/ha	

OFT-4

Crop / Enterprise	Bottle gourd, sponge gourd, bitter gourd	
Title of on farm trial	Assessment of Bottle gourd, sponge gourd, bitter gourd in backyard for additional income form backyard	
Problem diagnosed	Backyard is not utilized for an economic activity by resource poor small and marginal farmers	
Farmers' Practices	No proper utilization of backyard to generate additional income from vegetable production	
Details of technologies selected for assessment	T ₁	No proper use of backyard
	T ₂	Assessment of Bottle gourd, Sponge gourd, bitter gourd in backyard for additional income
	T ₃	Rows can be added if necessary
Source of technology	IIVR Varansi	
Plot size	07	
No. of farmers	80,000	
Total cost	30,000	
Critical input		

Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment generation	

OFT-5

Crop / Enterprise	Coriander
Title of on farm trial	Assessment of improved variety Sudha
Problem diagnosed	Low yield of seed due to use of local/old variety
Farmers' Practices	Old variety
Details of technologies selected for assessment	T ₁ Old variety
	T ₂ Assessment of improved variety Sudha (yield 15 q/ha)
	T ₃
Source of technology	ANGRAU 2016
Plot size	0.4
No. of farmers	05
Total cost	30000
Critical input	2000
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- yield (q/ ha) (xix) Economic (xx) Social – Employment generation	Seed yield, weight of seed per plant (gram), yield (q/ha)

OFT-6

Crop / Enterprise	Garlic
Title of on farm trial	Assessment of Improved variety (G-189) Garlic.
Problem diagnosed	Low yield of Garlic Due to use of Local/Old Variety
Farmers' Practices	Irrigated
Details of technologies selected for assessment	T ₁ Old variety
	T ₂ Assessment of Improved variety (G-189) Garlic. (yield 100 q/ha)
Source of technology	NHRDF 2019
Plot size	0.4
No. of farmers	06
Total cost	80000
Critical input	45,000
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	yield- Kg/plant, yield (q/ha), NR-Rs/Ha and B:C ratio 150

OFT-7

Crop / Enterprise	Groundnut
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 selected for 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 ₃ T ₂ + ZnSo ₄ @ 25 kg/ha + Borax @ 10 kg/ha as basal application
Source of technology	Junagarh Agriculture University, Gujrat (2017)
Plot size	1.0
No. of farmers	05

Total cost	14000
Critical input	Judicious use of macro and micro nutrients in groundnut crops
Performance indicators: (xxv) Growth and Yield attributes (xxvi) Technical- yield (q/ ha) (xxvii) Economic (xxviii) Social – Employment generation	No. of nodules/plant, No. of pegs/plant, Q/ha, B:C Ratio

OFT-8

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of storage grain and pest management by dry neem (<i>Azadiracta indica</i>) leaves
Problem diagnosed	Heavy losses of during storage (20-25 %) Period
Farmers' Practices	Storage of grains without treated
Details of technologies selected for assessment	T ₁ Storage of grains without treated
	T ₂ Storage of grains (Wheat) with dry neem leaves @ 250 gm/ quintal grains
	T ₃ Rows can be added if necessary
Source of technology	Shri Krishna, S/o Shri Ghasi Ram , Khai Khera Rithoura dist, Bareilly U.P.
Plot size	05
No. of farmers	05
Total cost	120
Critical input	Safe storage of food grains (Wheat, Gram, Black Gram) are five months.
Performance indicators: (xxix) Growth and Yield attributes (xxx) Technical- yield (q/ ha) (xxxii) Economic (xxxii) Social – Employment generation	Percent in Per kg grain. Per quintal. B:C Ratio

OFT-9

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Nutrich improved variety of Wheat JW 3382
Problem diagnosed	Low yield of Wheat and deficiency of Nutrient value
Farmers' Practices	Adoption of old variety Lok-1 or GW 322
Details of technologies selected for assessment	T ₁ Old variety (LOK 1/GW 322)
	T ₂ New and improved variety JW 3382
	T ₃ Rows can be added if necessary
Source of technology	JNKVV, Jabalpur 2015
Plot size	01
No. of farmers	05
Total cost	12600
Critical input	Provide seed of Wheat Variety JW 3382
Performance indicators: (xxxiii) Growth and Yield attributes (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	No. of grains/ear, Yield/ Sqm, Yield Q/ha, B:C ratio

OFT-10

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of herbicides (Sulphosulphuron+metasulphuron) in Wheat crop variety JW 3211 under Black gram - Wheat cropping system.
Problem diagnosed	Low yield of the wheat crop due to improper management of weed
Farmers' Practices	Inappropriate application of herbicide (2, 4 D)

Details of technologies selected for assessment	T ₁ Inappropriate application of herbicide (2, 4 D)
	T ₂ Metasulphuron @ 20 g a.i/ha
	T ₃ Sulphosulphuron+metasulphuron @ 160 g/ha
Source of technology	DWR, Jabalpur 2014-15
Plot size	01
No. of farmers	05
Total cost	12600
Critical input	Herbicide-Sulphosulphuron+metasulphuron @ 160 g/ha
Performance indicators: (xxxvii) Growth and Yield attributes (xxxviii) Technical- yield (q/ ha) (xxxix) Economic (xl) Social – Employment generation	Weed density/m ² , WCE, No. of tillers/ Sqm, Yield- Q/ha 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	Brinjal	IPM	Demonstration of management of shoot and fruit borer brinjal			0.8	06	
2	Turmeric	Varietal	Demonstration of turmeric cultivation			0.4	05	
3	Onion	Varietal Evaluation	Demonstration of high yielding Onion variety Bhima Super for high keeping quality			0.8	06	
4	Tomato	Varietal Evaluation	Demonstration of high yielding variety Kashi Aman of Tomato			0.8	07	
7	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.
8	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

9	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	content N, P, K (%) in decomposed matter No. of nodule/plant, No. of pods/plant, Yield q/ha and B:C ratio
10	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

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	Feb.-March	250
2	Farmers Training	17	Feb.-March	510
3	Media coverage	4		mass
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 (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	CPM	Demonstration of improved variety of Blackgram (Indira Urd Pratham)	Seed and herbicide	Kharif	10	25	Yield attributes and Economic parameters
2	Groundnut	CPM	Demonstration of improved variety of Groundnut (GJG 32)	Seed and herbicide	Kharif	20	50	Yield attributes and Economic parameters
3	Chickpea	CPM	Demonstration of improved variety of Chickpea (JG 36)	Seed, Fungicide, Biofertilizers and Insecticide as per need	Rabi	20	50	Yield attributes and Economic parameters
4	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

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	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

[illegible]

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		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											
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping											
Seed production	1	3	10	5		15	3	9		12	27
Planting material production	1	5	15	7			12	6		18	30
Vermi-culture	1	3	10	5		15	3	9		12	27
Value addition											
Sheep and goat rearing											
Para extension workers											
TOTAL											
(C) Extension Personnel											
Productivity enhancement in field crops	5	5	70	5		75					75
Integrated Pest Management	2	15	7	1		23					23
Integrated Nutrient management	1	1	13	0		10					10
Protected cultivation technology	1	15	7	1		23					23

[illegible]

B) OFF Campus

[illegible]

i) Farmers & Farm women

1. On Campus

[illegible]

2. Off Campus

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

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
Farmers visit to KVK	50									
Diagnostic visits	7									
Exposure visits	1									
Ex-trainees Sammelan	2									
Soil health Camp	1									
Animal Health Camp	2									
Agri mobile clinic										
Soil test campaigns	1									
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	14									
Others (pl. specify)										
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (q)
CEREALS	Wheat	DBW-187,323, Pusa Tejas	300 q
OILSEEDS	Sesame	TKG-306	
PULSES	Blackgram	Indra urd pratham,	
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
Seedlings/Saplings	Papaya	Red Son , Red Lady	5000
	Drumsticks	PKM-1	1000
SPICES	Chilli		15000
VEGETABLES	Brinjal		15000
	Tomato		15000
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	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	Quarterly	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			
3			
4			
5			

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/No

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

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
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 Narmdanidhi	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	2

	completed	
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	Powdery mildew	

		Nandni and IPF 9225	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 2024

KVK Chhindwara-I

Year of sanction: 1984

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. D. C. Shrivastava	07162-299534	9300631663	dhuruv4@gmail.com

1.2 Staff Position on (01st March.2024)

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	Vacant	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Dr. D.C. Shrivastava	I/c, Senior Scientist & Head	Food Science	104100	11.05.2007	24.09.2018	93006 31663	dhuruv4@gmail.com	
3	Subject Matter Specialist	Dr. R. K. Jhade	Scientist	Horticulture	79800	18.08.2017	18.08.2017	82376 87402	Jhaderk49@gmailcom	
4	Subject Matter Specialist	Mrs Riya Thakur	Scientist	Horticulture	68800	28.08.2017	04.01.2021	79874 85507	riyath29@gmail.com	
5	Subject Matter Specialist	Dr. Sarita Singh	Scientist	Agril. Ext.	79800	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	72100	26.03.2008	14.08.2008	98273 94930	niteshguptanet@rgmail.com	
9	Programme Assistant	Sh. Sunderlal Alawa	Technical Officer	Agril. Ext.	62200	17.10.2011	20.11.2012	80852 37119	alawaslkvk@gmail.com	
10	Farm Manager	Smt. Chanchal Bhargava	Programme Assistant	PB&G	48100	28.01.2019	31.12.2019	94073 05449	chanchalm11@gmail.com	
11	Assistant	Smt. Madhu Jaiswal	Asstt. Gr.II	Commerce	55700	23.10.1984	23.10.1984	81206 40538	-	
12	Jr. Stenographer / Comp. Operator	Vacant	-	-	-	-	-	-	-	-
13	Driver	Sh. B. L. Shukla	Driver	-	33100	10.07.2008	10.07.2008	94073 41659	-	-
14	Driver	Sh. S. K. Vishwakarma	Driver	-	33100	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	Not Working
Video Camera	2005	51990	Not Working
Stabilizer 2 KVA	NA	-	-
Stabilizer	2013	3500	Working
Inverter 600 VA (2)	2010	32000	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 (May-June 2024)
2	Pre Rabi (September- October 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	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	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 Gadhmal 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	Soybean	50	75.00	1500
4	Cotton	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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	39.2	23.3	9.97
Feb. 2023	0.3	27.38	11.7
Mar. 2023	5.5	34.53	17.09
Apr. 2023	0.0	40.66	22.44
May. 2023	0.0	41.05	24.5
Jun. 2023	193.2	37.2	23.7
July. 2023	464.8	28.41	22.35
Aug. 2023	344.9	28.35	22.32
Sept. 2023	176.4	28.0	20.84
Oct. 2023	29.0	29.91	17.7
Nov. 2023	0.0	28.85	11.09
Dec. 2023	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			

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	Bichhua	Bichhua	Thuyepani	Maize, Gram, Wheat, Millets	• Pest infestation • Insect 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	• Cropping 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
2	Bichhua	Bichhua	Moya	Maize, Gram, Wheat, Millets		
3	Chhindwara	Chhindwara	Medhkital	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
4	Chhindwara	Chhindwara	Markadhana	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
5	Chhindwara	Chhindwara	Megha Seoni	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
6	Mohkhed	Mohkhed	Sillewani	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
7	Mohkhed	Mohkhed	Rajola Raiyyat	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable		
8	Mohkhed	Mohkhed	Badnoor	Soybean, Maize, Gram,		

				Wheat, Vegetable	vegetables • Low yield due to imbalance use of nutrients • Non availability of green fodder round the year	• Cropping System • Cropping System & Integrated Nutrient Management • Micro Irrigation • Drainage System • Fodder Management • Cropping System & Integrated Nutrient Management • Farm Machinery • Fodder Management
9	Chourai	Chourai	Kunda	Soybean, Maize, Gram, Wheat, Vegetable		
10	Chourai	Chourai	Gopalpur	Soybean, Maize, Gram, Wheat, Vegetable, Sugarcane		
11	Sausar	Sausar	Mohgaon	Cotton, Pigeon Pea, Gram, Wheat, Vegetable, Orange		
12	Sausar	Sausar	Semda	Cotton, Pigeon Pea, Gram, Wheat, Vegetable, Orange		
13	Pandhurna	Pandhurna	Tigaon	Cotton, Pigeon Pea, Gram, Wheat, Vegetable, Orange		

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	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 Gadhmal 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

TECHNICAL PROGRAMME
A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		12	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
17	65	10	120

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
71	1450	112	2300

Seed Production (Qtl.)	Planting material (Nos.)
-	5000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterpris e	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Train ing if any	Title of trainin Training for extensi on person nel if any	Extensi on activiti es	Suppl y of seeds, planti ng materi als etc.
1.	Organic Farming	Lentil	Low production of lentil due to wilt	Assessment of bio agent in lentil var. IPL- 316	-	One Train ing	-	Field day	
2.	Crop Productio n	Chickpea	Lack of awareness about right sowing method	Assessment of sowing method in chickpea.		Two Train ing	-	Traini ng	
3.	Varietal Evaluation	Soybean	Low yield due to yellow mosaic virus (infestation 70%)	Assessment of soybean improved varieties JS 20-98 and JS 20-34		Two Train ing	-	Sangos hthi	

4.	Varietal Evaluation	Chickpea	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		Two Training	-	Field day	
5.	Varietal Evaluation	Pigeon Pea	No cultivation of pigeon pea due to long duration variety	Assessment of short duration high yielding variety of Pigeon pea (Rajeshwari)		Two Training	-	Training	
6.	Natural Farming	Papaya	Deterioration of fruit quality and shelf life due to continuous use of chemical fertilizers.	Assessment of Jeevamrutha on improve fruit quality and shelf life of Papaya (cv. Taiwan-red leady 786)		One Training	-	Sangos hthi	
7.	Integrated Disease Management	Mandarin (Nagpur mandarin)	Heavy incidence of Phytophthora (gummosis) (Intensity – 60-65%)	Assessment of NRCfBA 44 (<i>Trichoderma harizanium</i>) to mitigate the incidence of Phytophthora/gummosis in Nagpur mandarin		One Training	-	Field day	
8.	Natural Farming	Pineapple	Mandarin is only fruit crop in major area, periodically affected with climate resulting production, quality loss with low return, need a new hardy fruit crop with maximum return	Introduction of Pineapple var. Kew as a new fruit crop in dist. Chhindwara MP for DFI		One Training	-	Training	
9	Varietal evaluation	Turmeric	Low yield	Assessment of Roma and Rajendra Sonali variety of turmeric for higher yield		One Training	-	Sangos hthi	
10	IDM	Marigold	Heavy incidence of <i>fusarium</i> wilt in marigold	Assessment of various bio-agent for the management of <i>fusarium</i> wilt in marigold var. Pusa narangi		Two Training	-	Field day	
11	Organic farming	Garlic	Thrips is causing severe yield loss in garlic.	Assessment of eco-friendly module to control thrips in garlic		Two Training	-	Training	
12	Food Processing	Millets (Jawar +Little millet)	Low shelf Life	Assessment for shelf life of multi-millet grains flour		Two Training	-	Sangos hthi	
13	Drudgery reduction	Millets (Kodo & Kutki)	Low efficiency, less recovery of grain in traditional method	Assessment of drudgery for farm women through millet thresher		Two Training	-	Field day	

14	PHT	Nagpur mandarin	Low shelf life of Nagpur mandarin	Assessment of Nagpur mandarin shelf life with use of different coating materials		One Training	-	Training	
15	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.		One Training	-	Sangos hthi	
16	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. (1st Year)		Two Training	-	Field day	
17	Group approach	FPO	Lack of awareness about income and employment generation of FPO members through maize production	Assessment of FPO members regarding income and employment generation through Maize production. (2nd Year)		Two Training	-	Training	
18	CBD (Capacity Building & Group Dynamics)	SHG	Poor knowledge about SHC recommendation.	Study of effectiveness about the knowledge & adoption of soil health card		Two Training	-	Sangos hthi	

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
Organic Farming	1	1								
Crop Production	2	2	2	1	2	2	1	-	1	
Varietal Evaluation			2							
TOTAL	3	3	4	1	2	2	1	-	1	17

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 (Agronomy)

Title of on-farm trial:	Assessment of sowing method in chickpea
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Lack of awareness about timely sowing and 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-	Farmers practice
T2 –Recommended Practice-	Raised bed method
T3- Recommended Practice-	Raised bed in Paired row system
Date of sowing:	15 October 2024 (Expected)
Date of harvesting:	February to March 2025 (Expected)
Source of technology:	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	-

OFT- 2 (Agronomy)

Title of on-farm trial:	Assessment of bio-agent in Lentil var. IPL-316
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low production of lentil
Thematic area:	Organic Farming, 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-	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 2024 (Expected)

Date of harvesting:	15 February 2025 (Expected)
Source of technology:	IIPR Kanpur 2017
Characteristics of technology:	Organic method of seed treatment
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 3 (Plant Breeding & Genetics)

Title of on-farm trial:	Assessment of soybean improved varieties JS 20-98 and JS 20-34
Year/Season:	Kharif 2024
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 (Early Variety)
T2 –Recommended Practice-	T2- JS 20-98
T3- Recommended Practice-	T3- JS 20-34
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur, 2015
Characteristics of technology:	Maturity 90-100 days, yield 22-25q/ha, multiple disease resistant
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 4 (Plant Breeding & Genetics)

Title of on-farm trial:	Assessment of wilt resistant variety of Chick pea JG 36 and JG 24
Year/Season:	Rabi 2024
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-	T2- JG 36
T3- Recommended Practice-	T3- JG 24
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur,2017
Characteristics of technology:	Maturity 110-120 days, yield 18-20q/ha
Name of Crop/Enterprises:	Chick pea
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 5 (Plant Breeding & Genetics)

Title of on-farm trial:	Assessment of short duration high yielding variety of Pigeon pea (Rajeshwari)
Year/Season:	Kharif, 2024
Farming situation:	Semi irrigated
Problem diagnosis:	No cultivation of pigeon pea due to long duration variety
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-	No cultivation of pigeon pea in cropping system
T2 –Recommended Practice-	short duration high yielding variety of Pigeon pea (Rajeshwari)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR, IARI 2018
Characteristics of technology:	Maturity 120 days, yield 18-20q/ha
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 6 (Horticulture)

Title of on-farm trial:	Assessment of Jeevamrutha on improve fruit quality and shelf life of Papaya (cv. Taiwan-red leady 786)
Year/Season:	Kharif, 2024
Farming situation:	Irrigated
Problem diagnosis:	Deterioration of fruit quality and shelf life due to continuous use of chemical fertilizers.

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- Indiscriminate use of chemical fertilizers
T2 –Recommended Practice-	T2- Application of liquid jeevamrutha 100li/acre at before flowering and after fruit set
T3 –Recommended Practice-	T3- Application of liquid jeevamrutha 200li/acre at before flowering and after fruit set
Date of sowing:	-
Date of harvesting:	-
Source of technology:	National Centre for Organic and Natural Farming (NCONF), Ghaziabad ,2018
Characteristics of technology:	Use of jeevamrutha to avoid indiscriminate use of chemical fertilizers
Name of Crop/Enterprises:	Papaya
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 7 (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:	Kharif, 2024
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of Phytophthora (gummosis) (Intensity – 60-65%)
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-	T1- Indiscriminate use of fungicides and pesticides
T2 –Recommended Practice-	T2- Paste + spraying + drenching Mefenoxam MZ @2.5g/li
T3 –Recommended Practice-	T3- Soil application of NRCfBA 44 (<i>Trichoderma harizanium</i>) pre and post monsoon 100g/tree with well fermented FYM
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Central Citrus Research Institute (CCRI), Nagpur,2016
Characteristics of technology:	Use of NRCfBA 44 (<i>Trichoderma harizanium</i>) to mitigate the incidence of Phytophthora/gummosis in Nagpur mandarin
Name of Crop/Enterprises:	Nagpur mandarin

Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 8 (Horticulture)

Title of on-farm trial:	Introduction of Pineapple var. Kew as a new fruit crop in dist. Chhindwara MP for DFI
Year/Season:	Kharif, 2024
Farming situation:	Irrigated
Problem diagnosis:	Mandarin is only fruit crop in major area, periodically affected with climate resulting production, quality loss with low return, need a new hardy fruit crop with maximum return
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- Mandarin production
T2 –Recommended Practice-	T2- Pineapple variety Kew
T3 –Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-Central Institute of Horticulture, Dimapur, Nagaland ,2019
Characteristics of technology:	Pineapple variety Kew is a new fruit crop
Name of Crop/Enterprises:	Pineapple
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT: 9 (Horticulture)

Name of Discipline	Horticulture (2nd year)
Title of on-farm trial:	Assesmen of Roma and Rajendra Sonali variety of turmeric for higher yield
Year/Season:	2024/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, 2019
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	-

OFT: 10 (Horticulture)

Name of Discipline	Horticulture (2 nd year)
Title of on-farm trial:	Assessment of various bio-agent for the management of <i>fusarium</i> wilt in marigold var. Pusa Narangi
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of <i>fusarium</i> 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:	NDUAT, UP- 2017
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	-

OFT: 11 (Horticulture)

Name of Discipline	Horticulture (2 nd year)
Title of on-farm trial:	Assessment of eco-friendly module to control thrips in garlic
Year/Season:	2024/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 @150ml/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 Extension OFT:

Extension OFT-01

Title	Assessment of Natural farming effect in Maize production. (1 st Year)
Season & Year	2024
Problem identified	Due to continues and imbalance use of chemical fertilizers soil fertility is adversely affected. As a result low yield is obtained with poor quality.
Thematic Area	Natural farming
Farming situation	Irrigated
Name of Technology Intervention under study	National Centre for Organic and Natural Farming (NCONF), Ghaziabad 2015
Farmers Practice	T1- Maize production traditionally T2-Production of maize via. Different components of natural farming T3-
No. of replication (Farmers)	05

Results / findings

Performance indicators/ parameters	Unit/ details
Yield, B:C ratio	(q/ha),

Extension OFT-02

Title	To Study of effectiveness about the knowledge & adoption of soil health card (2 nd Year)
Season & Year	2024
Problem identified	Poor knowledge about SHC recommendation.
Thematic Area	CBD (Capacity Building & Group Dynamics)
Farming situation	-
Name of Technology	-

Intervention under study	
Farmers Practice	T1- 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	%

Extension OFT-03

Title	Assessment of natural farming effect in Mustard production. (1st Year)
Season & Year	2024
Problem identified	Due to continues and imbalance use of chemical fertilizers soil fertility is adversely affected. As a result low yield is obtained with poor quality.
Thematic Area	Natural farming
Farming situation	Irrigated
Name of Technology Intervention under study	National Centre for Organic and Natural Farming (NCONF), Ghaziabad 2015
Farmers Practice	T1- Mustard production traditionally T2-Production of maize via. Different components of natural farming T3-
No. of replication (Farmers)	05

Results / findings

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

Extension OFT-4

Title	Assessment of FPO members regarding income and employment generation through Maize production. (1nd Year)
Season & Year	2024-25
Problem identified	Lack of awareness about income and employment generation of FPO members through Miner millets production
Thematic Area	Group approach
Farming situation	Rainfed
Name of Technology Intervention under study	-
Farmers Practice	T1- To study the profile of Maize producer FPO and FPO members. T2-To study the income and employment generation of FPO members T3-To study the major constraints and Issues faced by Miner millets
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Knowledge, Decision making, Adoption level	%

Information about Home Science OFT: 1 (I Year)

Title of on-farm trial:	Assessment of Nagpur mandarin shelf life with use of different coating Materials
Year/Season:	Kharif- 2024
Problem diagnosis:	Low shelf life of Nagpur mandarin
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 method
T2 –Recommended Practice-	Wax Coating (Citra shine wax)
T3 –Recommended Practice-	Coconut oils + HDPE
Source of technology:	ICAR –CCRI, 2017
Characteristics of technology:	Coating are directly applied on fruit surface by dipping, spraying or brushing to create a modifying atmosphere. Use 10% carnuba wax for extending the shelf life.
Name of Crop/Enterprises:	orange
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 2 (II Year)

Title of on-farm trial:	Assessment drudgery of farm women through millet thresher
Year/Season:	Kharif 2024
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/	Assessment

Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of Traditional method -Kuneta
T2 –Recommended Practice-	Power operated millet thresher
T3–Recommended Practice	-
Source of technology:	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:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Home Science OFT: 3 (II Year)

Title of on-farm trial:	Assessment for shelf life of multi-millet grains flour
Year/Season:	2024/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-	T1-Traditionally stored in Earthen pot and jute bag
T2 –Recommended Practice-	T2-Stored in poly- Laminated Pro bag
T3–Recommended Practice	T3-Store in Air tight Metal container
Source of technology:	ICAR-CIAE, Bhopal ,2018
Characteristics of technology:	Millet flour packed in polyethelene 200 gauze for 60 days
Name of Crop/Enterprises:	Millet (Jawar +Little millet)
Farming situation:	Rainfed
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	IDM	Demonstration of eco-friendly practices for vector borne viral disease in tomato	Yellow sticky trap + Neem cake and neem oil	Kharif	4.0 ha	10	No. of infested plant (Number/5sqm), Yield (q/ha) & fruit weight (g)
2	Vegetables (Tomato, Chilies etc)	Natural Resource Management	Demonstration of soil less nursery with insect proof net tunnel for rising virus free vegetable seedlings	Cocopeat, Insect proof net 40 mesh	Kharif	30 square meter	10	Germination %, Virus free healthy seedlings (%)
3	Napier grass	LPM	Demonstration of Napier grass as feed for milch animals	Napier grass Jaywant	Annual	0.5 ha	30	Increase in milk production (l/animal/day), SNF increase (%)
4	Pigeon pea	Seed production	Demonstration of <i>Trichoderma Viride</i> for seed treatment in Pigeon pea	seeds	kharif	4.0 ha	10	Yield q/ha
5	Mustard	Production	Demonstration of improved variety of mustard NRCHB 101 (Giriraj)	seed	Rabi	4.0 ha	10	Yield q/ha
6	Paddy	IR-28	Demonstration of improved variety of paddy var. IR-28	Paddy	Kharif	4.0 ha	10	Yield q/ha
7	Nagpur mandarin	Plant growth	Demonstration of Plant	GA3, 0:52:34,	Rabi	4.0 ha	10	Fruit retention %,No. of

			Growth Regulator and micronutrients on fruit quality in Nagpur mandarin	Carbendazim				fruits/plant, Fruit size, TSS, TA & Yield kg/plant
8	Cabbage	Pest management	Demonstration of integrated pest management of DBM (Diamond Back Moth) in cabbage	Pheromone trap, <i>Bt</i>	Rabi	4.0 ha	10	Pest incidence (%), weight of head (g), yield (q/ha)
9	Custard Apple	Shelf life	Demonstration on storage of custard apple pulp in deep refrigerator at -16°C	Packaging material for Custard apple	Rabi	2 unit	10	Storage in days, Organoleptic observation, TSS, BC ratio
10	Azolla	Milk production	Demonstration of azolla as supplement for milch animals	Azolla	Annual	30 unit	30	Increase in milk production (l/animal/day), SNF increase (%)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month (Tentative)	Number of participants
1	Field days	2	Jan-Dec	-
2	Farmers Training	2	Jan-Dec	-
3	Media coverage	4	Annual	-
4	Training for extension functionaries	2	Jan-June-1 July-Dec-1	-

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 (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	-	-	Seed, IPM, INM	2024-25	20	50	-
2	Mustard	-	-	Seed, IPM, INM	2024-25	20	50	-
3.	Pigeonpea	-	-	Seed, IPM, INM	2024-25	20	50	-
4.	Chickpea	-	-	Seed, IPM, INM	2024-25	20	50	-
5.	Lentil	-	-	-	-	-	-	-

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	Jan- Dec	-
2	Farmers Training	13	Jan- Dec	-
3	Media coverage	05	-	-
4	Training for extension functionaries	02	-	-

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	02	02	-	-	-	-	-	-	-
Resource	02	02	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Conservation Technologies									
Integrated Farming	01	01	-	-	-	-	-	-	-
Water management	01	01	-	-	-	-	-	-	-
Seed production	02	02	-	-	-	-	-	-	-
Integrated Crop Management	02	02	-	-	-	-	-	-	-
Total	10	10	-	-	-	-	-	-	-
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	02	02	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	02	02	-	-	-	-	-	-	-
Total	04	04	-	-	-	-	-	-	-
b) Fruits									
Management of young plants/orchards	02	02	-	-	-	-	-	-	-
Total	02	02	-	-	-	-	-	-	-
c) Ornamental Plants	01	01							
Total	01	01	-	-	-	-	-	-	-
d) Plantation crops	01	01	-	-	-	-	-	-	-
Total	01	01	-	-	-	-	-	-	-
e) Tuber crops	02	02	-	-	-	-	-	-	-
Total	02	02	-	-	-	-	-	-	-
f) Spices			-	-	-	-	-	-	-
Production and Management technology	02	02	-	-	-	-	-	-	-
Total	02	02	-	-	-	-	-	-	-
g) Medicinal and Aromatic 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	02	02	-	-	-	-	-	-	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others				SC/ST		
			Male	Female		Total	Male	Female	
Nutrient Management									
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	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	2	2	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	1	1	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	1	1	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	1	1	-	-	-	-	-	-	-
Value addition	2	2	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	1	1	-	-	-	-	-	-	-
Location	2	2	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
specific drudgery reduction technologies											
Women and child care	1	1	-	-		-	-		-	-	
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	-	-	-	-	-	-	-	-	
Mobilization of social capital	02	02	-	-	-	-	-	-	-	-	
Entrepreneurial development of farmers/youths	02	02	-	-	-	-	-	-	-	-	
WTO and IPR issues	02	02	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	-	-	-	
XI Agro-forestrv			-	-	-	-	-	-	-	-	

B) OFF Campus

[illegible]

Conservation									
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	02	02	-	-	-	-	-	-	-
Management of Problematic soils	01	01	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	01	01	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	1	1	-	-	-	-	-	-	-
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	2	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	2	2	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	1	1	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	1	1	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	1	1	-	-	-	-	-	-	-
Storage loss minimization techniques	2	2	-	-	-	-	-	-	-
Value addition	1	1	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	1	1	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	1	1	-	-	-	-	-	-	-
Rural Crafts	1	1	-	-	-	-	-	-	-
Women and child	1	1	-	-	-	-	-	-	-

[illegible]

[illegible]

[illegible]

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										
April-May	Farmers & Farm women	Training on Production technology of turmeric and ginger	01	-	-	-	-	-	-	-
July- August	Farmers & Farm women	Training on disease management of marigold	01	-	-	-	-	-	-	-
September	Farmers & Farm women	Training on Production technology of bulb crops	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	-	-	-	-	-	-	-
Livestock production										
Home Science	Farmers & Farm women	Training on millet processing	2	5	-	-	-	-	-	-
	Farm women	Training on Maize	1	0	-	-	-	-	-	-

[illegible]

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										
July	Rural Youth	Natural farming techniques in vegetable	03	-	-	-	-	-	-	-
Livestock production										
Home Science										
	Farmers & Farm women	Training on millet processing	4	5	-	-	-	-	-	-
	Farmers & Farm women	Training on Mushroom processing	4	5	-	-	-	-	-	-
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Feb - 2024	Farmer and farm women	Mushroom cultivation	05	-	-	-	-	-	-	-
March - 2024	Rural youth	Vermi compost	05	-	-	-	-	-	-	-
May - 2024	Farmer and rural youth	Poultry farming	02	-	-	-	-	-	-	-
Aug - 2024	Farmer and rural youth	Production and use of organic inputs	05	-	-	-	-	-	-	-
Sep – 2024	Farmer	Production	05	-	-	-	-	-	-	-

[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	12	-	-	-	-	-	-	-	-	-
Advisory Services	25	-	-	2000	-	-	200	-	-	-
Scientific visit to farmers field	35	-	-	700	-	-	100	-	-	-
Farmers visit to KVK	30	-	-	1000	-	-	250	-	-	-
Diagnostic visits	10	-	-	10	-	-	-	-	-	-
Exposure visits	04	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	02	-	-	-	-	-	-	-	-	-
Soil health Camp	01	-	-	-	-	-	-	-	-	-
Animal Health Camp	01	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	01	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	01	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	01	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	01	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	08	-	-	-	-	-	-	-	-	-
Others (pl. specify)	05	-	-	-	-	-	-	-	-	-
Total	232	-	-	-	-	-	-	-	-	-

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)	Turmeric	Rajendra Sonali and Roma	50 Kg

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES	Tomato, Brinjal, Chilli	-	30000
	Drumstick	-	1000
	Cucurbits	-	5000
FOREST SPECIES			

ORNAMENTAL CROPS	Madhukamini	-	250
	Marigold	-	5000
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	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: 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	
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	Sillewani	Mohkhed	28 Km.
6	Tansara	Mohkhed	33 Km.
7	Badnoor	Mohkhed	22 Km.
8	Kunda	Chourai	55 Km.
9	Amaboh	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 :
2. No. of survey/PRA to be conducted:

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			

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**

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 : 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
Paddy		Pusa Sugandh, Pusa Sugandha, Kranti, Trisha, Batil		
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, RH-749	-	

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 2024

KVK Chhindwara-II

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 (13th March. 2024)

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. 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	Farm Manager	Dr. Suresh Kumar Ahirwar	Programme Assistant	Agronomy	9300-34800 + AGP 4200 Basic- 59100	12.10.2011	01.01.2020	7697959476	sureshas.2007@rediffmail.com	-
9	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	-

10	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	-
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	-	-	-	-	-	-	-	-	-
13	Driver	-	-	-	-	-	-	-	-	-
14	Driver	Sh Sunil K. Vaishya	Driver cum Machinic	-	-	-	-	-	-	-
15	Supporting staff	Sh. Ravishankar Vishwakarma	Field Assistant	Commerce	Basic-25800.00		02.11.2020			
16	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	-	-	-	3024.24	-
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 Lakh		In good condition
Motor Cycle 2	-	-	-	-
Bolero(Jeep)	2020	8.0 Lakh	78200	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	15.07.2024
2	15.11.2024

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	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
12	Cauliflower	8741	244748 mt	28 t/ha
13	ChilLi	6970	139400 mt	20 t/ha

Weather data (Jan, 2023- Dec., 2024)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2023	39.2	23.3	9.97
Feb, 2023	0.3	27.38	11.7
Mar, 2023	5.5	34.53	17.09
Apr, 2023	0.0	40.66	22.44
May, 2023	0.0	41.05	24.5
Jun, 2023	193.2	37.2	23.7
July, 2023	464.8	28.41	22.35
Aug., 2023	344.9	28.35	22.32

Sept., 2023	176.4	28.0	20.84
Oct. 20233	29.0	29.91	17.7
Nov. 2023	0.0	28.85	11.09
Dec. 2023	4.2	27.95	11.57

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	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 (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Harrai	Harrai	Bhumka, Balghongra	Niger Pigeon Pea, Maize, Gram, Wheat, Vegetable	• Insect infestation • Pest infestation	• Cropping System & Plant Disease Management
2	Junnardeo	Junnardeo	Chhindikamath, Tanda (Telibut)	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable	• Low yield • Disease infestation • Low productivity	• Cropping System & Integrated Pest Management
3	Tamia	Tamia	Jhilpipariya, Khireti, Bhondiya pani	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable	• Lack of income generation activities	• Cropping System & Drudgery reduction
4	Amarwada	Amarwada	Kheri hamira, Bamhori, Babutola	Soybean, Pigeon Pea, Maize, Gram, Wheat,	• Malnutrition • Much time and energy	• Cropping System, Drudgery reduction &

				Vegetable	expended by	Weed control
5	Parasia	Parasia	Kohka, Jamunbarra, Kundali Khurd Tursi	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable	farm women in agricultural work i.e. intercultural operations	• Value addition & processing and marketing
6.	Umreth		Umreth	Soybean, Pigeon Pea, Maize, Gram, Wheat, Vegetable	• 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	• 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

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	10 + 5 (CFLD)	130 + 275 (CFLD)

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. 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 unsuitable & hybrid variety (Intensity above 95 %)	Assessment of Composite variety of Maize (JM 218)	Demonstration of raised bed system of soybean	Sowing method Seed treatment, IPM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	-
2.	INM	Soybean	Low yield imbalance of use of chemical fertilizer and poor soil status (Intensity 80-90 %)	Assessment of promising variety of soybean JS 20-116	Demonstration of Nutrient management practices in soybean	Seed treatment, IPM, INM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	-

3.	Varietal Evaluation	Chick pea	Low yield due to old & Unidentified variety (Intensity 50 - 60 %)	Assessment of IPM module in chickpea	Demonstration of Improved variety of Chickpea (JG 24)	Seed treatment, IPM, INM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	-
4.	Varietal Evaluation	Wheat	Low yield due to use of unsuitable variety in semi-irrigated situation (60-70 %)	Assessment of heat tolerant variety of wheat - JW – 3336	Demonstration of improved variety of wheat JW - 3211 under semi-irrigate condition	Seed treatment, IPM, INM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	-
5	Varietal Evaluation	Kutki	Low yield due to use of unsuitable variety in semi-irrigated situation (60-70 %)	Assessment of semi irrigated variety JW 3211	Demonstration of improved variety of <i>kutki</i> millets (Jawahar Kutki 4)	Seed treatment, IPM, INM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	-
6	Varietal Evaluation	Kutki	Low yield due to use of unsuitable variety in semi-irrigated situation (60-70 %)	Assessment of semi irrigated variety JW 3211	Demonstration of improved variety of <i>kutki</i> millets (Jawahar Kutki 4)	Seed treatment, IPM, INM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	-
7	IPM/IDM	Brinjal	Low yield and fruit quality deterioration due to shoot and fruit borer in brinjal/ Yield reduction due to heavy incidence of rhizome rot in	Assessment of <i>Agniastra</i> against shoot and fruit borer in Brinjal	Demonstration of line sowing in kodo millets	Seed treatment, IPM, INM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	

			ginger						
8	Varietal Evaluation	Potato	Farmers use old varieties, Production loss	Assessment of HYV for kharif potato Kufri Jyoti & Kufri Pukhraj	Demonstration of Integrated Disease Management practices against rhizome rot of ginger	Seed treatment, IPM, INM, IWM	Seed production, seed processing	Training , farmers' fields, krishiak Sangosthi	Seed treatment, IPM, INM, IWM
9	Varietal Evaluation	Tomato	Low yield due to high disease incidence	Assessment of disease resistant tomato varieties Arka Rakshak & Arka Samrat	Demonstration of Fertigation with plastic mulching in Tomato crop.-	-	-	-	-
10	Fruit Production/ INM	Mango	Fruit drop due to hormonal imbalance, yield loss	Assessment of foliar application of PGR and micronutrients against fruit drop and improved fruit quality of Mango					

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
IPM/INP		01			01					02
Varietal Evaluation	02		01		02					05
Fruit Production						01				01
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 (Agronomy – Kharif)

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 (Agronomy – Kharif)

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 selectedfor 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 (Agronomy – Rabi)

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 (Agronomy – Rabi)

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	Use of pheromone trape + light trap and sticky strip

selectedfor assessment	
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 (Horticulture)

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 (Horticulture)

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 selectedfor 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 (Horticulture)

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	<table> <tr> <td>T₁</td><td>No use of PGR and Micronutrient</td></tr> <tr> <td>T₂</td><td>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</td></tr> </table>	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
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 (Horticulture)

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	<table> <tr> <td>T₁</td><td>Use of local available old variety kufri Jyoti</td></tr> <tr> <td>T₂</td><td>Kufri Chipsona 3 or Kufri Chipsona 4</td></tr> </table>	T ₁	Use of local available old variety kufri Jyoti	T ₂	Kufri Chipsona 3 or Kufri Chipsona 4
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 2024
Date of harvesting:	Sep 2024
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 2024

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):	Assesement
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 2024
Date of harvesting:	Sep 2024
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 2024-25
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):	Assesement
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 2024
Date of harvesting:	March 2025
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 2024
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):	Assesement
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 2024
Date of harvesting:	August 2024
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 2024-25
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):	Assesement
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. 2024
Date of harvesting:	Feb. 2025
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 2024-25
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):	Assesement
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., 2024
Date of harvesting:	March 2025
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 2024-25
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):	Assesement
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. 2024
Date of harvesting:	April 2025
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 2024-24
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):	Assesement
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 2025
Date of harvesting:	May 2025
Source of technology:	ICAR-CISH, Lucknaw 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)

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	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 -	Seed	Rabi	2.0	05	Yield (qt./ha), NMR (Rs/ha), B:C

			3211 under semi-irrigate condition					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 2004	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 2024-25	0.4	05	Yield (qt./ha),) B:C Ratio
9	Brinjal	IPM	Demonstration of Agniastra against shoot and fruit borer in Brinjal		Kharif 2024	0.4	05	Yield (qt./ha),) B:C Ratio
10.	Chilli	IPM	Demonstration on IPM module for leaf curl disease of chilli		Rabi 2024-25	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 (2024-25)

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 assessment	Seed + Bioagents for	Kharif 2024	20	50	Yield (qt./ha), NMR

				treatment				(Rs/ha), B:C Ratio
2.	Niger	V R	Varietal assessment	Seed + Bioagents for treatment	Kharif 2024	20	50	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
3.	Pegonpea	V R	Varietal assessment	Seed + Bioagents for treatment	Kharif 2024	10	25	Yield (qt./ha), NMR (Rs/ha), B:C Ratio
4.	Chickpea	V R	Varietal assessment	Seed + Bioagents for treatment	Rabi 2024-25	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):2024-25

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	01	01							50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
production									
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
Total	02	02							60
b) Fruits									
Management of young plants/orchards	01	01							30
Total	01	01							30
c) Ornamental Plants	0	0							
Total	0	0							
d) Plantation crops	0	0							
Total	0	0							
e) Tuber crops	01	01							30
Total	01	01							30
f) Spices									
Production and Management technology	01	01							
Total	01	01							
g) Medicinal and Aromatic Plants									
Production and management technology	00	00							
Total	00	00							
Grand total (Horticulture)	10	10							300
III Soil Health and Fertility Management									
Soil fertility	01	01						50	

[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									
Resource Conservation Technologies	06	06							260
Cropping Systems									
Crop Diversification	02	02							100
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management	02	02							100
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

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									
Integrated Disease Management									
Bio-control of pests and diseases	01	01							100
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	02	02							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										
20.04.2024	F&FW	Crop waste management through bio waste decomposer	01							35
25.04.2024	F&FW	Soil sample collection method	01							35
10.05.2024	F&FW	Crop residue management	01							35
15.05.2024	F&FW	Soil and water Testing	01							35
Horticulture										
25.01.2024	F&FW	Production technology of ivy gourd	01							35
10.02.2024	F&FW	Off season vegetable production through high tech	01							35

[illegible]

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										
2.04.2024	F&FW	Soil and water conservation Techniques	01							40
5.04.2024	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
15.10.2024 &	F&FW	Seed	02							100

Month/ Tentative Date	Clien tele	Title of the training programme	Durati on in days	Number of participants						Gra nd Total
				Others			Number of SC/ST			
				Ma le	Fema le	Tot al	Ma le	Fema le	Tot al	
11.11.2024	W	production of wheat								
10.4.2024	F& FW	Crop waste managemen t through waste decomposer	01							40
11.11.2024	F& FW	Oraganic manure	01							40
Horticulture										
20.02.2024	F& FW	Nursery managemen t for various vegetable crops	01							40
2.03.2024	F& FW	Nurserey managemen t of summer vegetable crops	01							40
5.04.2024	F& FW	Off season vegetable production through high tech horticulture	01							40
9.09.2024	F&F W	Vegetable cultivation through low tunnel poly house and mulching	01							40
12.08.2024	F&F W	Propagation techniques of horticultural	01							40

Month/ Tentative Date	Clien tele	Title of the training programme	Durati on in days	Number of participants						Gra nd Tota l
				Others			Number of SC/ST			
				Ma le	Fema le	Tot al	Ma le	Fema le	Tot al	
		crops								
15.11.2024	F&F W	Potato production technology	01							40
25.10.2024	F&F W	Carrot and radish production technology	01							40
25.06.2024	F&F W	Leafy coriander production for more income generation	01							40
10.09.2024	F&F W	Production technology of spices crops.	01							40
5.10.2024	F&F W	Value addition and spices crops	01							40
12.12.2.2024	F&F W	Pest managemen t of spices crops	01							40
20.12.2024	F&F W	Important locally available medicinal plants and its importants	01							40
Livestock production										
6.6.2024	F&F W	Livestock managemen								50

[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	

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										
15.11.2024	F&FW	Seed production: seed treatment, nutrient management, sowing method and irrigation management in chickpea	02							50
10.06.2024	F&FW	Vermiculture: Vermicompost verminvash and varms cultivation	02							50
15.05.2024	F&FW	Value addition and processing	01							50
Horticulture										
	F&FW	Fruit and	05							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	
25.11.2024		vegetables preservation								
25.12.2024	F&FW	Mushroom Production	03							25
Livestock production										
15.06.2024 & 20.09.2024	F&FW	Feed and fodder management for mulch animals	02							100
Home Science										
15.05.2024 & 12.09.2023		Formation and Management of SHGs	02							100
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
20.05.2024 25.05.2024 10.06.2024 18.06.2024	F&FW	Soil Health Card and soil testing technique for soil resting	04							200

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	
15.07.2024 18.08.2024	F&FW	Soil fertility management: Integrated Nutrient Management	02							100

Training Programme for Extension Functionaries:

[illegible]

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Animal Health Camp	08	-	-	-	-	-	-	-	-	-
Agri mobile clinic	04	-	-	-	-	-	-	-	-	-
Soil test campaigns	10	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	12	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	25	-	-	2000	-	-	200	-	-	-
Mahila Mandals Conveners meetings	35	-	-	700	-	-	100	-	-	-
Celebration of important days (specify)	30	-	-	1000	-	-	250	-	-	-
Others (pl. specify)	10	-	-	10	-	-	-	-	-	-
Total	04	-	-	-	-	-	-	-	-	-
	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	<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				
FISHERIES				
Others (Specify)				

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

Date of start	Periodicity	Number of copies to be published
January	Quaterly	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			

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 Sqm

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif 2024	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 2024-25	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		

KVK Damoh

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): 20 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.40
2	Under Demonstration Units	0.40
3	Under Crops	14.00
4	Orchard/Agro-forestry	0.40
5	Others (specify)	4.80
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	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)	2023	1000000	3000	-
Motor Cycle 2	2009	45000	40000	Not working
Bolero(Jeep)	2021	800000	40870	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 2024
2	30 September 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	Soybean-Chickpea
2	AES – 2	Black gram-Wheat
3	AES – 3	Paddy-Wheat
4	AES-4	Paddy-Chickpea
5	AES -5	Black gram-Chickpea

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't grow short duration variety

AES-2 (Patharia)

Strength	Weakness	Opportunities	Threats
• Shallow and Fertile soil	• Low water holding capacity	• Can grow short duration variety	• Need based 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 drained 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	75000	2962500	39.50
2	Maize	1100	26290	23.90
3	Pigeon pea	9250	156330	16.90
4	Green gram	15000	138750	9.25
5	Soybean	48000	528800	13.10
6	Black Gram	165000	1856250	11.25
7	Wheat	172020	6966650	40.50
8	Chickpea	90700	1768710	19.50
9	Mustard	4400	49440	11.25
10	Lentil	42850	664190	15.50

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, 2023	0	25.6	9.0
Feb, 2023	0	31.9	12.5
Mar, 2023	15	35.0	18.6
Apr, 2023	54	38.0	22.3
May, 2023	23	39.7	24.3
Jun, 2023	148.6	39.1	27.4
July, 2023	192	33.8	26.1
Aug., 2023	175	31.0	24.0
Sept., 2023	176	32.8	25.0
Oct. 2023	0	35.0	20.0
Nov. 2023	0	31.0	16.8
Dec. 2023	25	26.6	15.0

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	471000	 MT.	 kg
Buffalo	128000	 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats	58000	 MT	 kg
Pigs Crossbred/ Indigenous	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	Kulua	Soybean, Chickpea	Use of old variety	Varietal replacement
2.	Patharia	Patharia	Kuakheda	Black gram, Wheat	Unavailability of quality seed, Post harvest losses in pulses	Crop diversification
3.	Jabera	Jabera	Devri	Paddy-Wheat	Use of Old Variety,	Improved Variety
4.	Jabera	Jabera	Khamaria	Paddy-Wheat	Use of Old Variety,	Improved Variety
5.	Jabera	Jabera	Chaurai	Paddy-Wheat	Use of Old Variety,	Improved Variety
6.	Jabera	Jabera	Bhaisa	Paddy-Wheat	Use of Old Variety,	Improved Variety
7.	Jabera	Jabera	Aloni	Paddy-Wheat	Use of Old Variety,	Improved Variety
8.	Jabera	Jabera	Jhalon	Paddy-Wheat	Use of Old Variety,	Improved Variety
9.	Hatta	Hatta	Piparia Kiran	Soybean, Chickpea	Indiscriminate use of insecticide	Insect & Pest Management
10.	Hatta	Patera	Satpara	Paddy-Wheat	Use of Old Variety,	Improved Variety

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.	Natural 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
16	80	24	481

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 • Bio 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 to 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 lack of Micronutrients in diet	-	Demonstration on Nutritional garden for nutritional security of farm family	• Nutritional garden for nutritional security 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 material	Vermicomposting through waste material			-

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	

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

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Natural farming in Chickpea
Problem diagnosed	Indiscriminate use of Agro chemical in Chickpea
Farmers' Practices	No use of seed treatment and balance plant nutrient
Details of technologies selected for assessment	T ₁ No use of seed treatment and balance plant nutrient
	T ₂ Use of Beejamrit
	T ₃ Use of Jeevamrit
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	Beejamrit, Jeevamrit
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	Foliar spray of Micronutrient in citrus species	
Title of on farm trial	Assessment Foliar spray of Micronutrient in citrus species	
Problem diagnosed	Low income due to micronutrient deficiency	
Farmers' Practices	Improper management of micronutrient	
Details of technologies selectedfor assessment	T ₁	Improper management of micronutrient
	T ₂	Magnesium sulphate 0.5% foliar spray
	T ₃	Zink Sulphate 0.5% foliar spray
Source of technology	CCRI Nagpur 2017	
Plot size	100x20 m ²	
No. of farmers	05	
Total cost	10000	
Critical input	Micronutrient	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Fruit weight (kg/plant), yield q/ha, B:C Ratio	

OFT-6

Crop / Enterprise	Dolichos Bean (Sem)	
Title of on farm trial	Assessment of Dolichos Bean (Sem) variety Jawahar Sem Selection 1 and Jawahar Sem 17	
Problem diagnosed	Low income due to old and local variety	
Farmers' Practices	Use of old and local variety of Sem	
Details of technologies selectedfor assessment	T ₁	Use of old and local variety of Sem
	T ₂	Improved variety of Dolichos Bean (Sem) : Jawahar Sem Selection 1
	T ₃	Improved variety of Dolichos Bean (Sem) : Jawahar Sem 17
Source of technology	JNKVV Jabalpur 2020	
Plot size	1.0 ha	
No. of farmers	05	
Total cost	20000	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant height (cm), No. of branches/plant, No. of Pod /plant , yield q/ha, B:C Ratio	

OFT-7

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of Tomato variety Saaho (TO 3251) and Atish - 3357	
Problem diagnosed	Low yield due to old hybrid (Sarpan F1 Hybrid 520)	
Farmers' Practices	Use of old hybrid	
Details of technologies selectedfor assessment	T ₁	Use of old hybrid
	T ₂	Improved variety of Tomato : Saaho (TO 3251)
	T ₃	Improved variety of Tomato : Atish - 3357

Source of technology	Syngenta & VNR (2017)
Plot size	1.0 ha
No. of farmers	05
Total cost	60000
Critical input	Seeds & Seedling
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-8

Crop / Enterprise	Muskmelon
Title of on farm trial	Assessment of Muskmelon hybrid: Vijay and Chandan
Problem diagnosed	Low yield due to old variety Arkajeet
Farmers' Practices	Use of old variety Arkajeet
Details of technologies selectedfor assessment	T ₁ Use of old variety Arkajeet
	T ₂ Improved variety of Muskmelon hybrid: Vijay
	T ₃ Improved variety of Muskmelon hybrid: Chandan
Source of technology	Sagar seeds 2018
Plot size	1.0 ha
No. of farmers	05
Total cost	60000
Critical input	Seeds
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	Cowpea
Title of on farm trial	Assessment of HYV of Cowpea Kashi Nidhi
Problem diagnosed	Low yield due to use of local and less yielding variety
Farmers' Practices	Low yield due to use of local and less yielding variety
Details of technologies selectedfor assessment	T ₁ use of local and low yielding variety
	T ₂ Cow pea variety Kashi Nidhi
Source of technology	IIVR 2012
Plot size	100x20 m ²
No. of farmers	05
Total cost	7500
Critical input	seed

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pod/plant, Yield (q/ha), B:C ratio

OFT-11

Crop / Enterprise	Coriander
Title of on farm trial	Assessment of HYV of Coriander Jawahar Dhania -10
Problem diagnosed	Low yield due to use of local and less yielding variety CIMPO
Farmers' Practices	local variety of coriander used by farmer
Details of technologies selected for assessment	T ₁ local variety of coriander CIMPO used by farmer
	T ₂ Coriander Variety Jawhar Dhania -10
Source of technology	JNKVV 2020
Plot size	100x20 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	Seed yield / Plant(kg), Seed yield / ha(q), B:C ratio.

OFT-12

Crop / Enterprise	Chilli
Title of on farm trial	Assessment of HYV of Chilli Kashi Abha
Problem diagnosed	Low yield due to use of local and less yielding variety
Farmers' Practices	local variety of Chilli used by farmer
Details of technologies selected for assessment	T ₁ local variety of Chilli used by farmer
	T ₂ Chilli variety Kashi Abha
Source of technology	IIVR 2019
Plot size	100x40 m ²
No. of farmers	05
Total cost	5000
Critical input	Seedlings
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of fruit / Plant(kg), Av. fruit weight (g), Yield (q/ha), B:C ratio.

OFT -13

Crop / Enterprise	Tomato Ketchup and Sauce
Title of on farm trial	Assessment of Value addition in Tomato through Ketchup and Sauce preparation.
Problem diagnosed	Post harvest losses(40%)
Farmers' Practices	No value addition of Tomato
Details of technologies selected for assessment	T ₁ No value addition of Tomato
	T ₂ Preparation of Ketchup and Sauce
Source of technology	DPHMRI: 2012
Plot size	-
No. of farmers	05
Total cost	2500
Critical input	Tomato
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Ketchup (kg), Sauce (kg), BC ratio

OFT -14

Crop / Enterprise	Vermi-composting	
Title of on farm trial	Assessment of Vermi-composting for income generation of farm women	
Problem diagnosed	Low income of farm women through selling of cow dung cake	
Farmers' Practices	I No preparation of Vermicompost	
Details of technologies selected for assessment	T ₁	No preparation of Vermicompost
	T ₂	Preparation of Vermin-composting
Source of technology	JNKVV : 2016	
Plot size	-	
No. of farmers	05	
Total cost	3000	
Critical input	worms	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Vermicompost (q/unit)	

OFT -15

Crop / Enterprise	Processing and Value addition	
Title of on farm trial	Assessment of Shelf life of Multigrain millet flour	
Problem diagnosed	Low shelf life of Multigrain millet flour due to improper packaging and storage	
Farmers' Practices	Traditionally storage in Earthen pot and Gunny bags	
Details of technologies selected for assessment	T ₁	Traditionally storage in Earthen pot and Gunny bags
	T ₂	Stored in Poly laminated pro bag
	T ₃	Stored in Air tight Metal bin
Source of technology	CIAE: Bhopal (2020)	
Plot size	-	
No. of farmers	05	
Total cost	5000	
Critical input	Metal bin and Poly pro bag	
Performance indicators:	Storage period Shelf life (days) fort night till 3 months	

OFT -16

Crop / Enterprise	Ragi millet	
Title of on farm trial	Assessment of utility of Ragi millet in human daily diet	
Problem diagnosed	Lack of nutrients in human diet	
Farmers' Practices	No use of Ragi millet in human diet	
Details of technologies selected for assessment	T ₁	No use of Ragi millet in human diet
	T ₂	Preparation of Ragi Kheer and Laddu
	T ₃	Packaging and marketing linkage
Source of technology	CFTRI: 2018	
Plot size	-	
No. of farmers	05	
Total cost	7500	
Critical input	Ragi grain ,Other ingredient and Packaging material	
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 Sorghum variety
Year/Season:	Kharif 2024
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 2024
Date of harvesting:	September-October 2024
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 2024
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 2024
Date of harvesting:	September-October 2024
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 Natural farming in Chickpea
Year/Season:	Rabi 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to insect - pest in chickpea
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-	No use of seed treatment and balanced plant nutrients
T2 –Recommended Practice-	Use of Beejamrit
T3- Recommended Practice-	Use of Jeevamrit
Date of sowing:	Oct-Nov 2024
Date of harvesting:	March 2025
Source of technology:	Natural Farming Testing Center Gurukul Kurukshetra Haryana 2021
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	Minimum 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 2024
Farming situation:	Irrigated
Problem diagnosis:	Low net income due to 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 2024
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 Foliar spray of Micronutrient in citrus species
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low income due to micronutrient deficiency
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-	Improper management of micronutrient
T2 –Recommended Practice-	Magnesium sulphate 0.5% foliar spray
T3- Recommended Practice-	Zinc Sulphate 0.5% foliar spray
Date of sowing:	Already planted crop
Date of harvesting:	Feb-March
Source of technology:	CCRI Nagpur 2017
Characteristics of technology:	Effective management of micronutrients
Name of Crop/Enterprises:	citrus species
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 Dolichos Bean (Sem) variety Jawahar Sem Selection 1 and Jawahar Sem 17
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low income due to old and 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 old and local variety of Sem
T2 –Recommended Practice-	Improved variety of Dolichos Bean (Sem) : Jawahar Sem Selection 1
T3- Recommended Practice-	Improved variety of Dolichos Bean (Sem) : Jawahar Sem 17
Date of sowing:	June-July
Date of harvesting:	October- November
Source of technology:	JNKVV Jabalpur 2020
Characteristics of technology:	High Yielding variety
Name of Crop/Enterprises:	Dolichos Bean (Sem)
Recommendations for Farmers	Suitable for Arid Zone
Recommendations for Deptt. Personnel	Suitable to grow in light soil condition
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 Tomato variety Saaho (TO 3251) and Atish - 3357
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old hybrid (Sarpan F1 Hybrid 520)
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 old hybrid
T2 –Recommended Practice-	Improved variety of Tomato : Saaho (TO 3251)
T3- Recommended Practice-	Improved variety of Tomato : Atish - 3357
Date of sowing:	October-November
Date of harvesting:	February-March
Source of technology:	Syngenta & VNR (2017)
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 Muskmelon hybrid: Vijay and Chandan
Year/Season:	Rabi 2024

Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety Arkajeet
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 old variety Arkajeet
T2 –Recommended Practice-	Improved variety of Muskmelon hybrid: Vijay
T3- Recommended Practice-	Improved variety of Muskmelon hybrid: Chandan
Date of sowing:	February-March
Date of harvesting:	May-June
Source of technology:	Sagar seeds 2018
Characteristics of technology:	High Yielding variety
Name of Crop/Enterprises:	Muskmelon
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 2024
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/	Horticulture

Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of HYV of Cowpea Kashi Nidhi
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local and less yielding variety
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 local and less yielding variety
T2 –Recommended Practice-	Cow pea variety Kashi Nidhi
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR 2012
Characteristics of technology:	improved and high yielding variety
Name of Crop/Enterprises:	Cow 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)	Horticulture
Title of on-farm trial:	Assessment of HYV of Coriander Jawahar Dhania -10
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local and low 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-	Coriander Variety Jawhar Dhania -10
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV 2020
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/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of HYV of Chilli Kashi Abha
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local and low 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-	Chilli variety Kashi Abha
T3- Recommended Practice-	-
Date of sowing:	from July to August 2024
Date of harvesting:	November - December 2025
Source of technology:	IIVR 2019
Characteristics of technology:	High yielding variety of Chilli
Name of Crop/Enterprises:	Chilli
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:	Assessment of Value addition in Tomato Through Ketchup and Sauce preparation.
Year/Season:	Rabi: 2024
Problem diagnosis:	Post harvest losses(40%)
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
T2 –Recommended Practice-	Preparation of Ketchup and Sauce
Source of technology:	DPHMRI: 2012
Characteristics of technology:	Increase shelf life and Organoleptic test of product
Name of Crop/Enterprises:	Processing and value addition
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	Establishment of Tomato processing unit at village level
Recommendations for Dept. Personnel	
Feedback	

Title of on-farm trial:	Assessment of Vermi-composting for income generation of farm women
Year/Season:	Rabi: 2024
Problem diagnosis:	Low income of farm women through selling of cow dung cake
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 preparation of Vermicompost
T2 –Recommended Practice-	Preparation of Vermin-composting
Source of technology:	JNKVV : 2016
Characteristics of technology:	Increase income of farm women
Name of Crop/Enterprises:	Processing and value addition
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	Establishment of composting unit at village level
Recommendations for Dept. Personnel	
Feedback	

Title of on-farm trial:	Assessment of Shelf life of Multigrain millet flour
Year/Season:	Kharif 2024
Problem diagnosis:	Low shelf life of Multigrain millet flour due to improper packaging and storage
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-	Traditionally storage in Earthen pot and Gunny bags
T2 –Recommended Practice-	Stored in Poly laminated pro bag
T2 –Refined Practice-	Stored in Air tight Metal bin
Source of technology:	CIAE: Bhopal (2020)
Characteristics of technology:	
Name of Crop/Enterprises:	Processing and Value addition
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Title of on-farm trial:	Assessment of utilization Ragi millet in human daily diet
Year/Season:	Kharif 2024
Problem diagnosis:	Lack of nutrients in human diet
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 use of Ragi millet in human diet
T2 –Recommended Practice-	Preparation of Ragi Kheer and Laddu
T3 –Refined Practice	Packaging
Source of technology:	CFTRI: 2018
Characteristics of technology:	Nutritional diet
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 206	Seed	Kharif 2024	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,Brahmastra, Agniashtra , Deshparn Ark	Rabi& Kharif 2024	5	12	No of ear / plant , No of pod / plant , yield q/ha
3	Chickpea	Crop Production	Demonstration on Chickpea Variety RVG 204	Seed	Rabi 2024	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 2024	2	12	Time & cost saving per ha
5	Brinjal	HOV	Demonstration on Bio – inoculant (Azetobactor, PSB, KSB 5 kg/ha)	Bio – inoculant (Azetobactor, PSB, KSB 5 kg/ha)	Kharif 2024	1	5	No. of fruit / plant, yield q /ha
6	Chili	HOS	Demonstration on Sunidhi F1 Hybrid	Sunidhi F1 Hybrid	Rabi 2024	1	5	Fruit weight (g), Fruit Length (cm), No. of fruit/plant, Yield (q/ha)
7	Capsicum	HOV	Demonstration on Hybrid Capsicum Jaya	Seed	Rabi 2024	1	5	yield q /ha
8	Mango	HOF	Demonstration of NAA in Mango for management of flower and fruit drop	NAA @ 20 ppm		1	5	Percentage of Fruit retention (fruit set) / plant
9	Nursery	Production & Management	Performance on soil-less nursery raising in pro-tray	Seed, Pro-tray	Kharif 2024	-	10	Germination (%), Mortality (%) Net Income BC Ratio, Yield (q/ha)
10	Coriander	IWM	Demonstration of Pendimethalin for weed management in Coriander	Pendimethalin	Kharif 2024	1	10	Yield (q/ha)
11	Kitchen garden	Nutritional Security	Demonstration on summer vegetable kitchen Gardening Kit to enhance the productivity and economics status of migrant labours	vegetable kitchen Gardening Kit	Summer 2024	1	10	Production (q/unit)
12	Tomato	Production &	Demonstration on Planting technique	Plants	Rabi 2024	1	5	Fruit weight(g), No. of fruit/plant,

		Managem nt	of tomato during late Rabi					Yield/ha(q/ha),N et return, B:C ratio, Feedback , Farmers reaction
13	Backyard nutritional kitchen garden	Nutritional insecurity	Demonstration of backyard nutritional kitchen garden	Seeds and seedling of vegetables, Fruit plants	Kharif & Rabi 2024	10 units	10	Production (kg/unit), Net return (Rs/unit)
14	pedal operated potato chips making machine	Drudgery reduction	Demonstration on drudgery reduction for farm women through pedal operated potato chips making machine.	pedal operated potato chips making machine	Rabi 2024	-	05	Chips (kg/hr)
15	Millet	Value addition	Demonstration on safe storage of Millet grains	Millet grains	Kharif 2024	-	10	% losses of grains
16	Drumstic k	Value addition	Value addition in drumstick through processing	Drumstick Powder and Pickles	Rabi: 2024	-	10	Cost of product (Rs/kg) and Income generation (%),

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.

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 (2024-25)

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 2024	20	50	Yield (q/ha)
2	Groundnut	Crop Production	CFLD on Groundnut	Seed	2024	10	25	Yield (q/ha)
3	Blackgram	Crop Production	CFLD on Blackgram	Seed	Kharif 2024	20	50	Yield (q/ha)
4	Green Gram	Crop Production	CFLD on Green Gram	Seed	Kharif 2024	20	50	Yield (q/ha)
5	Pigeon Pea	Crop Production	CFLD on Pigeon Pea	Seed	Kharif 2024	20	50	Yield (q/ha)
6	Chickpea	Crop Production	CFLD on Chickpea	Seed	Rabi 2024	20	50	Yield (q/ha)
7	Lentil	Crop Production	CFLD on Lentil	Seed	Rabi 2024	20	50	Yield (q/ha)
8	Mustard	Crop Production	CFLD on Mustard	Seed	Rabi 2024	20	50	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	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

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	4	80	0	80	40	0	40	120
Resource Conservation Technologies	2	2	40	0	40	20	0	20	60
Integrated Farming	3	3	60	0	60	30	0	30	90
Water management	2	2	30	10	40	15	5	20	60
Seed production	4	4	60	20	80	30	10	40	120
Integrated Crop Management	2	2	40	0	40	20	0	20	60
Total	17	17	310	30	340	155	15	170	510
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	2	2	30	10	40	15	5	20	60
Protective cultivation (Green Houses, Shade Net etc.)	3	3	50	10	60	25	5	30	90

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	5	5	80	20	100	40	10	50	150
b) Fruits									
Management of young plants/orchards	4	4	70	20	90	20	10	30	120
Total	4	4	70	20	90	20	10	30	120
c) Ornamental Plants	1	1	15	5	20	10	0	10	30
Total	1	1	15	5	20	10	0	10	30
d) Plantation crops	2	2	30	10	40	15	5	20	60
Total	2	2	30	10	40	15	5	20	60
e) Tuber crops	1	1	15	5	20	10	0	10	30
Total	1	1	15	5	20	10	0	10	30
f) Spices									
Production and Management technology	2	2	30	10	40	15	5	20	60
Total	2	2	30	10	40	15	5	20	60
g) Medicinal and Aromatic Plants									
Production and management technology	2	2	40	0	40	20	0	20	60
Total	2	2	40	0	40	20	0	20	60
Grand total (Horticulture)	34	34	560	140	700	260	60	320	1020
III Soil Health and Fertility Management									
Soil fertility management	2	2	40	0	40	20	0	20	60
Soil and Water Conservation	2	2	30	10	40	15	5	20	60
Integrated Nutrient Management	3	3	50	10	60	25	5	30	90
Production and use of organic inputs	2	2	30	10	40	15	5	20	60
Management of Problematic soils	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	2	2	30	10	40	15	5	20	60
Nutrient Use Efficiency	1	1	15	5	20	10	0	10	30
Soil and Water Testing	1	1	15	5	20	10	0	10	30
Total	13	13	210	50	260	110	20	130	390
IV Livestock Production and Management									
Dairy Management	1	1	15	5	20	10	0	10	30
Poultry Management	0	0	0	0	0	0	0	0	0
Disease Management	1	1	15	5	20	10	0	10	30
Feed management	2	2	20	20	40	10	10	20	60
Production of quality animal products	1	1	5	15	20	0	10	10	30
Total		5	55	45	100	30	20	50	150

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	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
Value addition	4	4	0	80	80	0	40	40	120
Income generation activities for empowerment of rural Women	4	4	0	80	80	0	40	40	120
Location specific drudgery reduction technologies	2	2	0	40	40	0	20	20	60
Women and child care	1	1	0	20	20	0	10	10	30
Total	16	16	0	320	320	0	160	160	480
VI Agril. Engineering									
Total	0	0	0	0	0	0	0	0	0
VII Plant Protection									
Integrated Pest Management	2	2	40	0	40	20	0	20	60
Integrated Disease Management	2	2	40	0	40	20	0	20	60
Bio-control of pests and diseases	2	2	40	0	40	20	0	20	60
Production of bio control agents and bio pesticides	2	2	40	0	40	20	0	20	60
Total	8	8	160	0	160	80	0	80	240
VIII Fisheries									
Integrated fish farming	0	0	0	0	0	0	0	0	0
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	1	1	15	5	20	10	0	10	30

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
production									
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 technology	2	2	30	10	40	15	5	20	60
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

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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 young plants/orchards	2	2	30	10	40	15	5	20	60
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 rural Women	2	2	0	40	40	0	20	20	60
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, Agniasthra , 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

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	F &FW	Crop Diversification	4	60	20	80	30	10	40	120
June	F &FW	Integrated Farming	2	40	0	40	20	0	20	60
May	F &FW	Water management	4	60	20	80	30	10	40	120
June	F &FW	Quality Seed production	3	60	0	60	30	0	30	90
October	F &FW	Nursery management of vegetable	2	30	10	40	15	5	20	60
October	F &FW	Integrated Crop Management	1	20	0	20	10	0	10	30
November	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
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 2024	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 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	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. 2024	OFT's	20
July & Nov. 2024	Demonstrations	32
Jan. to Dec. 2024	Trainings	360
Jan. to Dec. 2024	Awareness Programme	400
Jan. to Dec. 2024	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. 2024	Demonstrations	500
Jan. to Dec. 2024	Trainings	900
Jan. to Dec. 2024	Awareness Programme	1500
July & Nov. 2024	Demonstrations	500
Jan. to Dec. 2024	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

Year of Sanction- 2004

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.2023)

[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 2024
2	October 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	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 kgh ⁻¹ , P – 7-9 kgh ⁻¹ , K – 308-370 kgh ⁻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 grazyl and d. Scope of breed upgradation of indiscript 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	129000		0.2852
2	Maize	15800		0.1938
3	Kodo Kutki & other Millets	49450		0.101
4	Pigeon Pea	8600		0.085
5	Niger	17850		0.065
6	Soybean	7900		0.121
7	Wheat	52900		0.16
8	Chickpea	9200		0.068
9	Lentil	38800		0.0665
10	Linseed	10500		0.049
11	Mustard	28500		0.0298

Source: Department of Agriculture, Dindori (M.P.) 2023-24

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan 2023	0.0		
Feb 2023	0.0		
Mar 2023	0.0		
Apr 2023	0.0		
May 2023	0.0		
June 2023	182.8		
July 2023	344.4		
Aug 2023	408.8		
Sept 2023	180.6		
Oct 2023	109.0		
Nov 2023	0.0		
Dec 2023	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 (2023)

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,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

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
14	70	14	140

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
84	1800	50	28000

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

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterp rise	Identif ied Probl em	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Trainin g if any	Title of trainin g for extens ion perso nnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Integrat ed Pest and Disease Manage ment	Maize	lack of awaren ess in new technol ogy	Assessment of improved variety of Maize production under ridge and furrow technology	Product ion technol ogy of maize		IPM, IDM	Training, field day	Seed, Biofertilizer
2	Integrat ed Crop and nutrient Manage ment	Soybea n	lack of awaren ess in new technol ogy	Assessment of Improved Variety Of Soybean (JS 20 60) under Rice- wheat cropping system	Product ion technol ogy of soybean		IPM, IDM	Training, field day	Seed Biofertilizer
3	Varietal Replace ment	Wheat	lack of awaren ess in new technol ogy	Assessment of Bio fertilizer (Azotobacter, PSB) with recommended dose of fertilizer in wheat (Rice- Chickpea cropping system)	Product ion technol ogy of wheat		IPM, IDM	Training, field day	Seed Bio-fertilizer
4	Integrat ed Crop and nutrient Manage ment	Urd (Blackg ram)	Fallow land in summe r	Assessment of Mungbean variety Urd Pratap -1 with line sowing	Product ion technol ogy of Urd		IPM, IDM	Training, field day	Seed Bio-fertilizer
	Integrate d Pest Manage ment	Chickpe a	Low yield due to heavy Infestati on of pod borer	Assessment of Beauveria bassiana for the management of pod borer in chickpea	-	Manage ment of pod borer in chickpea	IPM in Chickpe a	Training, field day	Bio Pesticide
	Integrate d Pest Manage ment	Brinjal	Low yield and fruit quality deterior ation due to shoot and fruit borer in brinjal	Assessment of *Agniastra (combination) against shoot and fruit borer in Brinjal.	-	Manage ment of shoot and fruit borer in Brinjal.	-	Training, field day	Boatanial +Abniastra (Combination) *Cow urine+ Neem leaves +green chilli+garlic
	Integrate d Pest Manage ment	Maize	Low yield due to heavy Infestati on of fall army	Assessment of Beauveria bassiana and Emamectine benzoate for the management of fall army worm in maize	-	Manage ment of fall army worm in maize	Manage ment of fall army worm in maize	Training, field day	Bio pesticide and Chemical

			worm						
	Integrate d Pest Manage ment	Pigeon pea	Low yield due to infestati on of pod borer in Pigeon Pea	Assessment of Beauveria bassiana and Chlorantaniliprole for the management of Pod borer in Pigeon Pea	-	Manage ment of Pod borer in Pigeon Pea	-	Training, field day	Bio pesticide and Chemical
	Integrate d Pest Manage ment	Brinjal	Low yield and fruit quality deterior ation due to shoot and fruit borer in brinjal	Assessment of *Agniastra (combination) against shoot and fruit borer in Brinjal.	-	Manage ment of shoot and fruit borer in Brinjal	-	Training, field day	Boatanial +Abniastra (Combination) *Cow urine+ Neem leaves +green chilli+garlic
	Integrate d Pest Manage ment	Chickpe a	Low yield due to heavy Infestati on of pod borer	Assessment of Beauveria bassiana for the management of pod borer in chickpea	-	Manage ment of pod borer in chickpea	IPM in Chickpe a	Training, field day	Bio Pesticide
	Integrate d Pest Manage ment	little millet (Kutki)	Low yield due to infestati on of Blister beetle	-	Manage ment of Blister Beetle in little millet (Kutki)	Manage ment of Blister Beetle in little millet (Kutki)	-	Training, field day	Light trap+ Chemical
	Integrate d Pest Manage ment		Low yield due to infestati on of stem borer	-	Manage ment of stem borer in paddy	Manage ment of stem borer in paddy	-	Training, field day	Light trap+ Chemical
	Integrate d Pest Manage ment	Mustard	Low yield of mustard due to infestati on of aphid (Intensit y 45%)	Management of Aphids in Mustard	Manage ment of Aphids in Mustard	Manage ment of Aphids in Mustard	-	Training, field day	Boatanical + Chemical
	Integrate d Pest Manage ment	Cauliflo wer	Low yield of cauliflo wer due to infestati on of DBM (Intensit y 45%)	-	Manage ment of Diamond back moth in cauliflo wer	Manage ment of Diamond back moth in cauliflo wer	-	Training, field day	Bio pesticide+ Chemical

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
Integrated Crop Management	-	1	1							
Integrated Pest Management	1	-	-							
Varietal Replacement	1	-	-							
TOTAL	2	1	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)

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/2024
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/2024
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/2024-25
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 urdbean variety Pratap -1 with line sowing
Year/Season:	Zaid/2024-25
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 (Pratap -1)
T3- Recommended Practice-	T3: Improved variety (Pratap -1) + 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-1

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 Kanchan and Kashi Unnati
Year/Season:	Kharif 2024
Farming situation:	Semi Irrigated
Problem diagnosis:	Low yield due to use of Old/Local variety (Godavari)
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/Local variety
T2 –Recommended Practice-	Use of Improved Variety- Kashi Unnati
T3- Recommended Practice-	Use of Improved Variety- Kashi Kanchan
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR, IIVR, 2016
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-2

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 Microbial Preparation (Jeevamrit) on Growth and Yield of Tomato

Year/Season:	Kharif 2024
Farming situation:	Semi-irrigated
Problem diagnosis:	Indiscriminate use of inorganic fertilizer has brought threat to soil health in respect of physical, chemical and biological properties of soil. Therefore , it is necessary to minimize the usage of inorganic fertilizers by substituting with organics.
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/ refinement:	
T1 – Farmers Practice-	Imbalance use of chemical fertilizer
T2 –Recommended Practice-	Recommended dose of Chemical Fertilizer NPK@ 120:80:60 Kg/ha
T3- Recommended Practice-	Foliar application of Jeevamrit@ 30 ml/litre of water at 15 days interval after 15 days DAT
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Institute of Agril, Vishwa Bharti Central University, West Bangal 2020
Characteristics of technology:	Jeevamrit is a traditional fermented liquid organic concoction commonly used as soil microbial enhancer in natural farming. It is a rich source of Bacteria, fungi, actinomycetes and also contains other beneficial microorganisms
Name of Crop/Enterprises:	Tomato
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 INM in cauliflower for sustainable production
Year/Season:	Rabi 2024-25
Farming situation:	Semi-irrigated
Problem diagnosis:	Low yield due to imbalance use of chemical fertilizer and poor management practices
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/ refinement:	
T1 – Farmers Practice-	Imbalanced use of fertilizers

T2 –Recommended Practice-	75% STV based fertilizer application + FYM @ 2t/ha+ Azotobacter @ 5kg/ha + PSB @ 5kg/ha
T3- Recommended Practice-	50% STV based fertilizer application + FYM @ 3t/ha+ Azotobacter @ 5kg/ha + PSB @ 5kg/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TNAU (2010)
Characteristics of technology:	Integrated nutrient management improves the physical, chemical and biological health of the soil and enhances crop production and productivity
Name of Crop/Enterprises:	Cauliflower
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 foliar spray water soluble fertilizer (NPK 19:19:19) for productivity enhancement on Tomato
Year/Season:	Rabi 2024-25
Farming situation:	Semi-irrigated
Problem diagnosis:	Poor yield and Low quality of produce
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/ refinement:	
T1 – Farmers Practice-	No use of WSF on Tomato crop
T2 –Recommended Practice-	Foliar Spray of water soluble fertilizer (NPK 19:19:19) @ 2.5kg/ha after 30, 40 and 60 DAT
T3- Recommended Practice-	Foliar Spray of water soluble fertilizer (19:19:19) @ 2.5kg/ha after 20, 40, 60, 80 and 100 DAT
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-IIVR, 2005
Characteristics of technology:	The foliar application of water soluble fertilizers increased the fruit yield per hectare. This was growing to increase in accumulation of carbohydrates in the tomato fruit which ultimately increased the total yield of fruit per hectare
Name of Crop/Enterprises:	
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

OFT-1 Plant Protection

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of <i>Beauveria bassiana</i> and Emamectine benzoate for the management of fall army worm in maize	
Problem diagnosed	Low yield due to heavy Infestation of fall army worm	
Farmers' Practices	Limited use of plant protection measures (Chlorpyrifos)	
Details of technologies selected for assessment	T ₁	Limited use of plant protection measures (Chlorpyrifos)
	T ₂	Two spray of <i>Beauveria bassiana</i> @ 1.0 lit/ha 15-20 DAS and second 22-27 DAS
	T ₃	Spray of Emamectine benzoate 5 SG @ 200 gm/ha 40-45 DAS
Source of technology	ICAR – DMR 2018 and JNKVV 2018	
Plot size	0.2 ha.	
No. of farmers	05	
Total cost	Rs. 1800.00	
Critical input	<i>Beauveria bassiana</i> and Emamectine benzoate	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic	Insect damage%, Yield q/ha., B:C	

OFT-2 Plant Protection

Crop / Enterprise	Pigeon pea	
Title of on farm trial	Assessment of <i>Beauveria bassiana</i> and Chlorantaniliprole for the management of Pod borer in Pigeon Pea	
Problem diagnosed	Low yield due to infestation of pod borer in Pigeon Pea	
Farmers' Practices	Limited use of pesticides (Chlorpyrifos)	
Details of technologies selected for assessment	T ₁	Limited use of pesticides (Chlorpyrifos)
	T ₂	Spray with <i>Beauveria bassiana</i> @ 1.0 lit/ha 40-45 DAS
	T ₃	Spray with Chlorantaniliprole 18.5 SC @ 150 ml/ha 60-65 DAS
Source of technology	IIPR 2018 and JNKVV 2018	
Plot size	0.2 ha.	
No. of farmers	05	
Total cost	Rs. 1000.00	
Critical input	<i>Beauveria bassiana</i> and Chlorantaniliprole	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic	No.of larvae/m row length, Pod damage% ,Yield q/ha and B:C	

OFT-3 Plant Protection

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of *<i>Agriastra</i> (combination) against shoot and fruit borer in Brinjal	
Problem diagnosed	Low yield and fruit quality deterioration due to shoot and fruit borer in brinjal.	
Farmers' Practices	Limited use of plant protection measures (Profenophos)	
Details of technologies selected for assessment	T ₁	Limited use of plant protection measures (Profenophos)
	T ₂	Two foliar applications of NSKE 5% @ 10 kg/ha at 15 days interval
	T ₃	Two foliar applications of <i>Agriastra</i> at 15 days interval
Source of technology	SPRI, Amrawati , 2015	
Plot size	0.05	
No. of farmers	05	
Total cost	1500	
Critical input	NSKE 5% and <i>Agriastra</i>	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic	Infestation %, yield q/ha , B;C ratio	

OFT-4 Plant Protection

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of <i>Beauveria bassiana</i> for the management of pod borer in chickpea	
Problem diagnosed	Low yield due to heavy Infestation of pod borer	
Farmers' Practices	Limited use of plant protection measures (Profenophos)	
Details of technologies selected for assessment	T ₁	Limited use of plant protection measures (Profenophos)
	T ₂	Spray of Neem oil (Azadiractine) 2.5 lit /ha 30-35 DAS
	T ₃	Two spray of Beauveria bassiana @ 1.0 lit/ha 40-45 DAS and second 60-65 DAS
Source of technology	JNKVV, 2018	
Plot size	0.2 ha.	
No. of farmers	05	
Total cost	Rs. 1600.000	
Critical input	Azadiractine and Beauveria bassiana	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic	No. of larvae/ row m., pod damage %, Yield q/ha, B:C ratio	

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
	T ₃	Rows can be added if necessary
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (iv) Growth and Yield attributes (v) Technical- yield (q/ ha) (vi) Economic (vii) 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 (Rows can be added if necessary)
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 BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Information about Extension OFT: 1

Title	Impact assessment of Farmers Field School in Integrated Cuscuta Management in Niger
Season & Year	Kharif 2024
Problem identified	Low yield due to lack of 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 (Please choose and give the parameters name and value according to suitable your OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Change in knowledge	Percentage			
Level of technology adoption	Low/Medium/High			
Yield	Q/ha			
Infestation of Cuscuta	Percentage			
B.C.ratio	Ratio			

Information about Extension OFT:2

Title	Impact assessment of Farmers Field School in Integrated Crop Management in Chick-pea
Season & Year	Rabi 2024-25
Problem identified	Low yield due to lack of 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 (Please choose and give the parameters name and value according to suitable your OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Change in knowledge	Percentage	-	-	-
Level of technology adoption	Low/Medium/High	-	-	-
Yield	Q/ha	-	-	-
Infestation of insect and diseases	Percentage	-	-	-
B.C.ratio	Ratio	-	-	-

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 Dept. 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 Azotobactor+PSB	Seed+Biofertilizer	Kharif 2023	4.0	10	No of panicles/plant , Yield q/ha., B:C ratio
2	Kutki	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 Trichodermma 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
1	Brinjal	IWM and Varietal evaluation	Use of high yielding hybrid variety of Brinjal kashi sandesh with 25 micron Mulch sheet	Seed+Mulching	Kharif 2024	1.00	05	No. of fruit/plant, yield/plant (kg), yield (q/ha), Net Return, B:C Ratio
2	Tomato	Integrated Disease management	Use of Pseudomonas @5kg/ha and Trichoderma @ 5kg/ha for soil treatment	Seed+Biofertilizer	Kharif 2024	1.00	05	Disease incidence %, Wt. of fruits/plant (gm), , yield q/ha, Net Return, B:C Ratio
3	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	Seed+Biofertilizer	Rabi 2024-25	1.00	05	No. of Pods/Plant, No. of seeds/Pods, yield (q/ha) , Net return and B:C ratio

			100 kg of FYM/ha					
4	Onion	Varietal Evaluation	Improve variety of Onion Bhimashakti with Recommended dose of fertilizer @100:50:50 NPK through organic and inorganic manures	Seed	Rabi 2024-25	1.00	05	Bulb weight (g), Bulb yield kg/m ² , Bulb Yield q/ha, Net Return, B:C ratio
1	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	Kahrif 2024	2.0	05	No. of adults / plant, yield q/ha, B:C
2	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	Kahrif 2024	2.0	05	Dead heart %, yield q/ha, BC ratio
3	Mustard	Integrated Pest Management	Management of Aphids in Mustard Removal of affected twigs, First pray with Imidacloprid 17.8 SL @ 125 ml/ ha (30-35 DAP) and second with Thiamethoxam 25 WG 200 g/ha 45-50 DAS	Chemical	Rabi 2024-25	2.0	05	No. of aphid /twig, Damage %, yield q/ha, BC ratio
4	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 chloratraniliprole 18.5 EC 150 ml./ha 40-45 DAP	Chemical	Rabi 2024-25	2.0	05	Damage %, yield q/ha, BC 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

*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 (2024-25)

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 Replcement	HYV + Line sowing + Seed treatment (FIR)+ Bio-Fertilizers (PSB &	Seed Bio fertilizer	Kharif 2023	20	50	No. of Pod/plant, Yield (qt/ha), B. C. Ratio

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

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	0	0	0	20	5	25	25
Resource Conservation Technologies	2	2	10	0	10	25	15	40	50
Integrated Farming	2	2	10	0	10	25	15	40	50
Water management	1	1	0	0	0	15	10	25	25
Seed production	1	1	0	0	0	15	10	25	25
Integrated Crop Management	1	1	0	0	0	15	10	25	25
Total	08	08	20	0	20	115	65	180	200
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1	0	0	0	15	10	25	25
Protective cultivation (Green Houses, Shade Net	1	1	0	0	0	15	10	25	25

[illegible]

[illegible]

[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	1	0	-	0	15	10	25	25
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0
Crop Diversification	1	1	0	0	0	15	10	25	25
Integrated Farming	1	1	0	0	0	15	10	25	25
Water management	1	1	0	0	0	15	10	25	25
Seed production	0	0	0	0	0	0	0	0	0
Nursery management	1	1	0	0	0	15	10	25	25
Integrated Crop Management	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0
Production of organic inputs	05	05	0	0	0	75	50	125	125
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1	0	0	0	15	10	25	25
Export potential vegetables	1	1	0	0	0	15	10	25	25
Protective cultivation (Green Houses, Shade Net etc.)	1	1	0	0	0	15	10	25	25
b) Fruits									
Cultivation of Fruit	1	1	0	0	0	15	10	25	25
Management of young plants/orchards	1	1	0	0	0	15	10	25	25
Export potential of ornamental plants	1	1	0	0	0	15	10	25	25
Propagation techniques of Ornamental Plants	1	1	0	0	0	15	10	25	25
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants	1	1	0	0	0	15	10	25	25
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	1	1	0	0	0	15	10	25	25

[illegible]

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									
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										
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	Protected Cultivation Technology and Flower Cultivation	01	0	0	0	0	0	0	25
Feb	F&FW	Production Technology of Cucurbitaceous Crops and Okra	01	0	0	0	0	0	0	25
Mar	F&FW	Post Harvest	01	0	0	0	0	0	0	25

		Management in Important Vegetables Crops								
Apr	F&FW	Care and management of Fruits Plants (Training, Pruning and Rejuvenation of Old Orchard)	01	0	0	0	0	0	0	25
May	F&FW	Production Technology of Brinjal	01	0	0	0	0	0	0	25
Livestock production										
Home Science	F&FW									
Plant Protection	F&FW	Management of Fall Armyworm in Maize	01							25
Plant Protection	F&FW	IPM in Chickpea	01							25
Plant Protection	F&FW	Integrated disease management in Paddy	01							25
Plant Protection	F&FW	Integrated disease management in Chikpea	01							25
Agriculture Extension (Capacity Building and Group Dynamics)										
February 2025		Leadership development	01							25
March 2025		Entrepreneurial development of farmers/youths	01							25
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										
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	1 days	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	
		organic inputs								
Horticulture										
June	F&FW	Production Technology of Cowpea	1 days	0	0	0	0	0	0	25
July	F&FW	Production technology of Tomato	1 days	0	0	0	0	0	0	25
Aug	F&FW	Nutritional Kitchen Garden Management	1 days	0	0	0	0	0	0	25
Sep	F&FW	Production Technology of Onion and Pea	1 days	0	0	0	0	0	0	25
Oct	F&FW	Production Technology of Cabbage & Cauliflower	1 days	0	0	0	0	0	0	25
Nov	F&FW	Production technology of Tomato and other solanaceous crops	1 days	0	0	0	0	0	0	25
Dec	F&FW	Importance of Drip/Sprinkler/Micro irrigation	1 days	0	0	0	0	0	0	25
Livestock production										
Home Science	F&FW	Importance of Drum stick pods and leafs	01	01						25
Home Science	F&FW	Importance of curry leaves for combating malnutrition	01	01						25
Home Science	F&FW	Importance of Nutrition in adolescence girls , lactating and pregnant women	01	01						25
Home Science	F&FW	Purification of Drinking water	01	01						25
Home Science	F&FW	Personal Hygiene	01	01						25
Home Science	F&FW	Preparation of Balanced Diet from local available Material	01	01						25
Plant Protection	F&FW	Management of red pumpkin beetle	01	01						25
Plant Protection	F&FW	Management of IPM in Okra	01	01						25
Plant Protection	F&FW	Management of wilt in Pigeon pea.	01	01						25
Plant Protection	F&FW	Management of Fall Army Worm in maize	01	01						25
Plant Protection	F&FW	Management of stem borer in	01	01						25

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

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
Others (pl. specify)										
Total										

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	Mango	Amrapali	1000
	Lemon	Kagzi	1000
SPICES			
VEGETABLES	Tomato	F1 Hybrid	50000
	Brinjal	F1 Hybrid	50000
	Chilli	F1 Hybrid	50000
	Cabbage	F1 Hybrid	50000
	Cauliflower	F1 Hybrid	50000
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	-	1	2000
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: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	1200	1200	20	-
Water Samples	100	100	10	-
Total	1400	1400	30	-

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: 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
Medicinal Garden	Medicinal Garden	100	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

ANNUAL ACTION PLAN 2024

KVK Harda

Year of sanction:2024

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sandhya Mure	--	9424492520	kvkharda@rediffmail.com

1.2 Staff Position on (31th Dec.2023)

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. Sandhya Mure	I/C Senior Scientist & Head	Home Science	-	23/01/2007	31/10/2017	9424492520	sandhyamure@gmail.com	
2	Subject Matter Specialist	Dr. Sandhya Mure	I/C Senior Scientist & Head	Home Science	Level-11 of 7 th CPC Rs. 98300/- (68900-110500)	23/01/2007	31/10/2017	9424492520	sandhyamure@gmail.com	
3	Subject Matter Specialist	Miss Jagriti Borkar	Scientist	Home Science	Level-11 of 7 th CPC Rs. 84800/- (68900-110500)	21/02/2007	10/07/2010	7999674934	jagritikvk@gmail.com	
4	Subject Matter Specialist	Dr. Sarvesh Kumar	Scientist	Agril. Extension & Rural Sociology	Level-10 of 7 th CPC Rs. 89800 (57700-92500)	12.10.2011	12.10.2011	8602043774	sarveshkvkharda@gmail.com	
5	Subject Matter Specialist	Dr. OP Bharti	Scientist	Plant Protection	Level-10 of 7 th CPC Rs. 66800 (57700-92500)	18.08.2017	26.01.2021	9713579386	opbharti@jnkvv.org	
6	Subject Matter Specialist	Mr. Roop Chand Jatav	Scientist	Soil Science & Agricultural Chemistry	Level-10 of 7 th CPC Rs. 66800 (57700-92500)	03-10-2017	03-10-2017	9074781709	Rcjatav1@gmail.com	
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Dr. M. K. Bankoliya	Programme Assistant	Plant Protection	Level-10 of 7 th CPC Rs. 59100/- (42700-135100)	13.10.2011	13.10.2011	7898516502	mukesh.agriana@gmail.com	
9	Computer Programmer / Programme Assistant	Sh. P.P. Padwar	Programme Assistant	Computer Application	Level-10 of 7 th CPC Rs. 64600/- (42700-135100)	01-04-2008	15-10-2012	9425392435	pppros20@gmail.com	-

10	Farm Manager	Miss Pushpa Jharia	Program me Assistant	Plant Breeding & Genetics	Level-10 of 7 th CPC Rs. 59100/- (42700-135100)	11/10/2011	12/10/2011	7909673712	pushpajharia@rediffmail.com	
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Sh. Ganesh Soni	Jr. Stenographer	Arts	Level-06 of 7 th CPC Rs. 28500/- (25300-80500)	21/03/2018	21/03/2018	8770637032	ganeshsonibawani@gmail.com	
13	Driver	Sh. Narmada Sahu	Driver cum Mechanic	Arts	Level-06 of 7 th CPC Rs. 32100/- (25300-80500)	08/07/2008	26/12/2020	9479403389	-	
14	Driver	Sh. Surendra Singh Nigwal	Driver cum Mechanic	-	Level-04 of 7 th CPC Rs. 21900/- (19500-62000)	10/07/2018	09/04/2021	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)	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 (2)	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 godown	NA	-	NA	NA	NA	NA	NA

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero (Jeep)	2019	-	-	Running Condition
Tractor (Same)	2022	-	-	Running Condition
Tractor (Power Tiller)	2005	-	-	Condemnation Process has been completed
Motor Cycle	2006	-	-	Not in running condition
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2022	-	Working
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	June-2024 (Pre-Kharif)
2	October-2024 (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	AES – 1	Soybean-Wheat/Chick Pea-Mung Bean
2	AES – 2	Maize-Wheat/ Chick Pea-Mung Bean

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

S. No.	Agro-climatic Zone	Characteristics
1	Central Narmada valley (MP-6)	Heavy Black Soil, Rainfall 1400m.m.

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

Strength	Weakness	Opportunities	Threats
▪ Highly Productive Soil	▪ Poor Workability of Heavy Black Soil	▪ Agro Ecological Condition Suitable for most of the Crops	▪ Non-Judicious use of Agro Chemicals ▪ Imbalance use of Fertilizers

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	330.58
Forest	104.8
Waste Land	-
Other than cultivated area	8.7
Cultivable waste and alkaline land	5.10

Pastures	13.7
Bushes	0.4
Current Fallow	0.1
Other Fallow	1.5
Agricultural Land	318.1
Area Sown	184.6
Kharif	183.9
Rabi	183.7
Zaid	13.5
Cropping Intensity	193

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	79.5
2	Well	30.7
3	Tube well	14.2
4	Ponds	16.9
5	Others	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	Loamy 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 (Qt.)	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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	-	23	13
Feb. 2023	-	22	15
Mar. 2023	-	26	18
Apr. 2023	-	30	25
May. 2023	5.3	45	30
Jun. 2023	116.2	37	27
July. 2023	533.9	30	23
Aug. 2023	107	29	23
Sept. 2023	443.6	29	23
Oct. 2023	0.5	31	23
Nov. 2023	30.06	31	19
Dec. 2023	-	-	-
Total	1236.56		

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	170334	--	--
Buffalo	240560	--	--
Sheep			
Crossbred/ Indigenous		--	--

Goats	50400	--	--
Pigs <i>Crossbred/ Indigenous</i>	1260	--	--
Rabbits			
Poultry			
Hens	70755	--	--
Turkey and others		--	--
Category	Area	--	--
Fish	--	--	--

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.	Harda	Harda Timarni Khirkiya	Balagaon Neelgarh Uwa Sontalai Kachbedi Amasel Gahal Mardanpur Mahendragoon 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 lopper, 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
20	535	17+02	360+

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
86	1720	30	600

Seed Production (Qtl.)	Planting material (Nos.)
Kharif-24 (Soybean JS-21-72) Rabi, 2024-25 (Wheat Crop)	600000 (Vegetable Seedlings and Fruit Saplings)

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	Onion	Loss of onion production due to Stemphylium disease in Onion	Assessment of management of Stemphylium blight disease in kharif Onion.	Demonstration of Insecticide Flubendamide 480 SC for management of Fall Army Worm in Maize				
2	IDM	Chick Pea	Low yield of Gram due to heavy infestation of wilt disease	Assessment of Bio-control modules for the management of wilt disease in Chick Pea	Demonstration of Mancozeb and Metalaxyl for management of Alternaria blight in Mustard				
3	INM	Green Gram	Low yield of Summer Green gram due to	Assessment of STV based Integrated Nutrient management in	Demonstration on STV based INM in hybrid Maize (Line				

			Imbalance Fertilizer dose	Summer Green gram (Line Sown) under Irrigated Condition in Vertisol	Sown) under Irrigated Condition in Vertisol				
4	INM	Soybean	Low yield of Soybean due to Imbalance Fertilizer dose	Assessment of STV based INM in Soybean (Line Sown) under Irrigated Condition in Vertisol	Demonstration on STV based INM on Yield of Chickpea (JG 14) under Irrigated Situation in Vertisol				
5	INM	Mustard	Low yield of Mustard due to Imbalance use of Nutrients	Assessment of STV based INM in Mustard (Line sown) Under Irrigated Condition of Vertisol	Demonstration on STV based Integrated Nutrient Management in Wheat under Irrigated Condition in Vertisol				
6	Natural Farming	Chick Pea	Low activities of beneficial microorganism due heavy doses of chemical fertilizers	Assessment of Foliar application of Jeewamrut in Chick-Pea (Line Sown) under Irrigated Condition in Vertisol	Demonstration on STV based Integrated Nutrient Management on Yield of Green Pea in Irrigated Situation in Vertisol				
7	IDM	Moong bean	Low yield of Moong bean due to powdery Mildew disease	Assessment of Powdery Mildew disease management in Moong bean	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				
8	IDM	Chick pea	Low yield of Chickpea due to collar rot disease	Assessment of Collar rot Disease management in Chickpea	Deep Summer Ploughing + Seed treatment (Carboxin +Thiram@3g kg-1 seed: Thiamethoxam 30FS @10ml kg-1 : Rhizobium spp				

					@10ml kg ⁻¹) + Need based foliar spraying of (Betacyfluthrin 8.49%+ Imidachlopid 19.81w/w) @ 350ml ha ⁻¹ at time 20-25 DAS and (Thiamethoxam 12.6% +Lambdacyhloth rin 9.5%) 247ZC @ 125ml ha ⁻¹ at 55 Days after sowing				
9	IDM	Mustard	Low yield of Mustard due to Alternaria blight	Assessment of Alternaria blight disease management in Mustard	Deep Summer Ploughing + Seed treatment (Carboxin + Thiram@3g kg ⁻¹ seed: Thiamethoxam 30FS @10ml kg ⁻¹ : Rhizobium spp @10ml kg ⁻¹) + Bird burchers @ 50 ha ⁻¹ + Need based foliar spraying of Emamectin Benzoate@ 80g ha ⁻¹ at time 35 DAS and 75 Days after sowing				
10	IDM	Wheat	Low yield of Wheat due to Root Aphid	Assessment of Root Aphid Management in Wheat	Cow Urean, Water, Chilli, Garlic and Datura				
11	Crop Diver sifica tion	Kodo	Need of Crop Diversification	Assessment of High Yielding Variety of Kodo Millet JK-137	Demonstratio n of Effectiveness of Visual Based Social Media 'WhatsApp' for Disseminatio n of Yellow Mosaic Disease Management Technology in Soybean				

					Under Soybean-Wheat Crop Sequence in Black Soil				
12	Natural Farming	Wheat	Farmers are practicing indiscriminately chemical used farming and not adopting natural farming practices	Assessment of challenges and hindrances in adoption of natural farming	Demonstration of Effectiveness of Visual Based Social Media 'WhatsApp' for Dissemination of Wilt Management Technology in Chickpea Under Soybean-Wheat Crop Sequence in Black Soil				
13	e-Extension	Soybean, Chickpea and summer Green gram crop	Farmers are least assessing the android mobile for agricultural information	Assessment of Android Mobile Application by farmers to Ease Farming Activities	Demonstration of Farmers Field School (FFS) on Chickpea production under KVK-ATMA convergence				
14	Farmer to Extension		Low adoption rate of recommended agricultural information/ technologies communicated by public extension	Assessment of effectiveness of farmers to farmer extension system among farming community	Demonstration of Public Addressing System an audio devices for farmer's motivation towards participation in off campus training programmes				
15	ITK	Watermelon	Low yield of cucurbits (Watermelon) due to high incidence of insect-pests	Assessment of control of insect-pests in cucurbits by spraying cow urine mixed with Tobacco-soaked water.	Demonstration on Nutritional Kitchen Garden with Scientific Techniques				
16	Nutritional	Ragi	No use of Ragi	Assessment of HYV of	Demonstration				

	Security		in the diet of Rural Farm Families of Nutri Smart Village	Ragi (Finger Millets) GPU 67 for Nutritional Security	n on Improved Weeding Tool “Gruber Weeder” in Vegetable crops				
17	Nutritional Security	Wheat mix	Malnutrition in Rural Children (30%) Age -1-3 years	Assessment of Wheat Food Mix for Anganwadi going Malnourished Children	Demonstration on effectiveness of Moringa Leaf Powder for Anaemic adolescence girls (13-15 years)				
18	Income Generation	Narmada Nidhi Breed	Low Income of Farm Women (70%)	Assessment of Backyard Poultry Farming in rural areas for Income Generation					
19	WOE	Pro-Super Bag	Losses in grains/pulses due to no prop storage (30%)	Assessment of Pro Super Bags for safe storage of pulses					
20	Natural Farming	Jeewamrut	Higher Use of Chemicals in Vegetable Crops	Assessment of Jeewamrut to enhance the Production of Vegetables crops in Rural Areas					

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	01	01	03	-	-	-	-	-	01	06
INM	-	02	01	-	-	-	-	-	-	03
Natural Farming	-	-	01	-	01	-	-	-	-	02
Crop Diversification	01	-	-	-	-	-	-	-	-	01
Nutritional Security	03	-	-	-	-	-	-	-	-	03
Extension	01	01	01	-	-	01	-	-	-	04
TOTAL	06	04	06	-	01	01	-	-	01	19

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Income Generation	-	01	-	-	-	-	-	01
TOTAL	-	01	-	-	-	-	-	01

Details of On Farm Trial (OFTs)

OFT-1

Crop / Enterprise	Onion		
Title of on farm trial	Assessment of management of Stemphylium blight disease in kharif Onion.		
Problem diagnosed	Loss of onion production due to Stemphylium disease in Onion		
Farmers' Practices	Delayed application of fungicides		
Thematic Area	IDM		
Details of technologies selected for assessment	T ₁	Delayed application of fungicides	
	T ₂	Seedling dip treatment with chlorothalonil @ 0.6 gm /lit followed by its foliar application at 45 DAT @ 1.5 ml /lit water	
	T ₃	Rows can be added if necessary	
Source of technology	DOGR,2015		
Plot size	0.25 ha		
No. of farmers	05		
Total cost Rs	3250		
Critical input	Chlorothalonil		

Result: (Economic Performance of OFT)

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

OFT-2

Crop / Enterprise	Chick Pea		
Title of on farm trial	Assessment of Bio-control modules for the management of wilt disease in Chick Pea		
Problem diagnosed	Low yield of Gram due to heavy infestation of wilt disease		
Farmers' Practices	No seed treatment		
Thematic Area	IDM		
Details of technologies selected for assessment	T ₁	No seed treatment	
	T ₂	Soil application of Trichoderma 4 kg/ha+ seed treatment with pseudomonas 4 gm /kg of seed	
	T ₃	Rows can be added if necessary	
Source of technology	JNKVV ,2016		
Plot size	0.25 ha		
No. of farmers	05		
Total cost Rs	3400		
Critical input	Trichoderma and pseudomonas		

Result: (Economic Performance of OFT)

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

OFT-03

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 - 2024
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 (Seed treatment with Rhizobium @ 10 ml/kg and Soil application with 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:	Greengram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-04

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of STV based INM in Soybean (Line Sown) under Irrigated Condition in Vertisol
Year/Season:	Kharif - 2024
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	
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 (

	Seed treatment with Rhizobium @ 10 ml/kg and Soil application with 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	-

OFT-05

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of STV based INM in Mustard (Line sown) Under Irrigated Condition of Vertisol
Year/Season:	Rabi – 2024-25
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low yield of Mustard due to Imbalance use of Nutrients
Thematic area:	Integrated Nutrient Management
No of trials:	05
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Imbalance use of Nutrients
T2 –Recommended Practice-	80:40:20kg/ha NPK+ Sulphur @ 40 kg/ha + Bio-fertilizers (Soil Application PSB @ 5 lit. /ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV (2008)
Characteristics of technology:	Balance fertilizer in Mustard based on STV, Improved soil fertility and Crop production
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-06

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Foliar application of Jeewamrut in Chick-Pea (Line Sown) under Irrigated Condition in Vertisol
Year/Season:	Rabi – 2024-25
Farming situation:	Irrigated, Black Soil
Problem diagnosis:	Low activities of beneficial microorganism due heavy doses of chemical fertilizers
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of Jeewamrut
T2 –Recommended Practice-	Soil application of Jeewamrut @ 500 litre/ha + Foliar application of Jeewamrut Solution (cow dung 10 kg + Cow Urine 10 lit. + 1 kg Soil of 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 Jivamrit solution to supply all Plant Nutrient which enhances beneficial soil microbes and crop yield
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-07

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Powdery Mildew disease management in Mungbean.
Year/Season:	Zaid, 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Mungbean 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:	
T1 – Farmers Practice-	Improper management of the disease.

T2 –Recommended Practice-	Foliar Spray with Mancozeb 75 wp @ 2g/lit & Wettable Sulpher 80 WP @ 2g/lit.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RCA, MPUAT, Udaipur, 2021 and TNAU, Tamilnadu-2018.
Characteristics of technology:	Powdery mildew effectively managed by sulphur based fungicides.
Name of Crop/Enterprises:	Moongbean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-08

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Collar rot Disease management in Chickpea.
Year/Season:	Rabi 2024-25
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:	
T1 – Farmers Practice-	No use of Integrated Disease Management.
T2 –Recommended Practice-	Deep Summer Ploughing + Seed treatment (Carboxin +Thiram@3g kg-1 seed) + Soil application of <i>Trichoderma spp</i> @5 L with 100 kg FYM ha ⁻¹ + Foliar Spraying of <i>Pseudomonas fluorescens</i> @5 L ha ⁻¹ + Light Irrigation at beginning of infection of diseases.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	BHU, Varanasi, 2008 and JNKVV, Jabalpur 2015.
Characteristics of technology:	Soil borne diseases effectively managed by Biocontrol agents as soil amendment.
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-09

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Alternaria blight disease management in Mustard.
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Mustard due to Alternaria blight.
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:	
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 .
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DRMR, Bharatpur, 2013 and FAO, 2021.
Characteristics of technology:	This disease effectively managed by foliar application with Mancozeb.
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Root Aphid Management in Wheat.
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Wheat due to Root Aphid .
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:	
T1 – Farmers Practice-	No use of Insecticide .
T2 –Recommended Practice-	Deep Summer Ploughing + Drenching of Chlorpyriphos 20 EC @1500 ml ha ⁻¹ + Light Irrigation at beginning of infection of diseases.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur, 2014.
Characteristics of technology:	Chlorpyphos can effectively managed of Root Aphid.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

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.			

Information about Extension OFT: OFT-12

Title of on-farm trial	Assessment of challenges and hindrances in adoption of natural farming
Crop/Enterprise	Wheat crop
Problem diagnosed	Farmers are practicing indiscriminately chemical used farming and not adopting natural farming practices
Farming situation	Irrigated , Black soil
Production system and thematic area	Soybean-Chickpea/Wheat-Summer green gram <i>Thematic area:</i> Natural farming
Farmers' practices	Chemical based chickpea cultivation technology
Details of technologies selected for assessment/refinement Treatments	T1: Chemical based Wheat cultivation technology rather natural farming T2: Challenges and hindrances in adoption of natural farming in wheat crop
Source of technology	ICAR-ATARI Zone-IX, Jabalpur- 2023
No. of farmers	150

Area of each trial	NA
No of trial	150
No. of animals (if animals are part of OFT)	NA
Critical input	NA
Performance indicators observation to be recorded	1. Knowledge about 5 components of NF (Bijamrit, Jivamrit, Whapasa, Mulching & Plant Protection) 2. No of component used by farmers 3. Reasons for not using natural farming 4. Major challenges perceived by farmers in adoption of NF 5. Market availability to sale produce 6. No. of livestock kept by farmers 6. Cost and availability of inputs 7. Price realization of produce 8. C:B ratio of NF

OFT-13

Title of on-farm trial	Assessment of Android Mobile Application by farmers to Ease Farming Activities
Crop/Enterprise	Soybean, Chickpea and summer Green gram crop
Problem diagnosed	Farmers are least assessing the android mobile for agricultural information
Farming situation	Irrigated , Black soil
Production system and thematic area	Soybean-Chickpea/Wheat-Summer green gram <i>Thematic area: e-Extension</i>
Farmers' practices	Farmers are practicing crop cultivation activities conventionally
Details of technologies selected for assessment/refinement Treatments	T1: Crop cultivation activities performed by farmers conventionally without using e-extension tools T2: Use of e- extension tool as android mobile by farmers to ease farming activities
Source of technology	ICAR-ATARI Zone-IX, Jabalpur- 2023
No. of farmers	150
Performance indicators observation to be recorded	1. Farmer's Knowledge about e-extension tools 2. Type of mobile possessed by farmer 3. Reasons for not using android mobile 4. Adoption of technology seen on android mobile 5. Applicability of Android mobile for agri information and marketing information 6. Use of android for weather information 7. Use of android for input and crop protection management activities 8. Use of android in farmer to farmer extension

OFT-14

Title of on-farm trial	Assessment of effectiveness of farmers to farmer extension system among farming community
Crop/Enterprise	Soybean, Chickpea and summer Green gram crop
Season & Year	
Problem diagnosed	Low adoption rate of recommended agricultural information/ technologies communicated by public extension

Thematic Area	Farmer to Extension
Farming situation	Irrigated, Black soil
Details of technologies selected for assessment/refinement Treatments	T1: Farmers are practicing crop cultivation activities more through farmers to farmer extension rather public extension T2: Reasons for effectiveness of farmers to farmer extension system among farming community
No. of farmers	150
Source of technology	ICAR-ATARI Zone-IX, Jabalpur- 2023
No. of replication (Farmers)	150

Results / findings

Performance indicators/ parameters	Unit/ details
1. Farmer's Knowledge about public extension system at their area 2. Type of information / skill exchanged by farmer to farmer extension 3. Reasons for not adopting recommended technology communicated by public sector 4. Adoption of varieties and other inputs by farmers to farmers extension 5. crop diversification adopted by farmers to farmers extension 6. Marketing place chosen by farmers to farmers extension 6. Weather information applicability by farmers to farmers extension 7. Use of crop protection technologies by farmers to farmers extension 8. Reasons for less trustworthiness on public extension system.	No.

OFT-15

Title of on-farm trial	Assessment of control of insect-pests in cucurbits by spraying cow urine mixed with Tobacco-soaked water.
Crop/Enterprise	Water melon
Problem diagnosed	Low yield of cucurbits (Watermelon) due to high incidence of insect-pests
Farming situation	Irrigated, Black soil
Thematic area	<i>Thematic area:</i> ITK
Farmers' practices	Farmers are practicing crop cultivation without using ITK for insect pests control in water melon
Details of technologies selected for assessment/refinement Treatments	T1: Farmers are not using plant protection based ITK in cucurbits (Watermelon) T2: Spraying cow urine mixed with Tobacco-soaked water(1:100) @10 ml/L
Source of technology	Traditional Knowledge in Agriculture Book Vol. (1):15-16 ICAR, New Delhi 2004
No. of farmers	05
Critical input	Tobacco

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Disease incidence % /m2	%	-	-	-
No Larvae/m2	No.	-	-	-
Yield	q/ha	-	-	-
BC Ratio	Nos.	-	-	-

Information about Home Science OFT:

OFT-16

Title of on-farm trial:	Assessment of HYV of Ragi (Finger Millets) GPU 67 for Nutritional Security
Year/Season:	Kharif-2024
Problem diagnosis:	No use of Ragi in the diet of Rural Farm Families of Nutri Smart Village
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security (DFI-II)
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-	Inadequate Nutritious Diet of Rural Farm Families
T2 –Recommended Practice-	HYV of Ragi contains High 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 22-25q./ha, Maturity 95-100 days.
Name of Crop/Enterprises:	Ragi (GPU-67)
Farming situation:	Semi-Irrigated
Date of sowing:	June-2024
Date of harvesting:	October-2024
Recommendations for Farmers	Ragi is rich in calcium and has a high fibre content.
Recommendations for Dept. Personnel	It is considered to be the best aid for people suffering from diabetes.
Feedback	--

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Consumption of Ragi (gm./day)	Gram	-	-	-
Iron (%)	%	-	-	-
Calcium (%)	%	-	-	-

OFT-17

Title of on-farm trial:	Assessment of Wheat Food Mix for Anganwadi going Malnourished Children
Year/Season:	Kharif, 2024
Problem diagnosis:	Malnutrition in Rural Children (30%) Age -1-3 years
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security (DFI-II)
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-	Imbalance and Inadequate diet of Children
T2 –Recommended Practice-	Wheat 50 gm+ Chickpea15 gm + Groundnut 10 gm + Sugar 25 gm/day (115 gm/day) for 3 months (fulfilled 55% RDA)
Source of technology:	Food and Nutrition Board, 2013
Characteristics of technology:	Calorie , Protein & Carotene rich
Name of Crop/Enterprises:	Wheat Food Mix
Farming situation:	--
Date of sowing:	July-2024
Date of harvesting:	November-2024
Recommendations for Farmers	--
Recommendations for Dept. Personnel	--
Feedback	--

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Sensory parameter	-	-	-	-
Nutritional Parameters	-	-	-	-
Pre and Post Anthropometric Measurements	-	-	-	-

OFT-18

Title of On-Farm Trial:	Assessment of Backyard Poultry Farming in rural areas for Income Generation
Year/Season:	Rabi,2024-25
Problem diagnosis:	Low Income of Farm Women (70%)
Thematic area: (Focus area in DFI and Nutri smart initiatives)	WOE (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:	
Farmers’ practices (T1)	Use of Local Breed
Treatments (T2)	Use of Improved Breed (Krishna-J), 20 Chicks/unit, Units-5
Treatments (T3)	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.
Name of Crop/Enterprises:	Backyard Poultry Farming
Farming situation:	--
Date of sowing:	--
Date of harvesting:	--
Recommendations for Farmers	Very Good Breed for Poultry Farming for generating extra income

Recommendations for Deptt. Personnel	
Cost of input	Rs.4,000/-
Total cost	Rs. 6,000/-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Weight/bird	Kg.	-	-	-
Mortality	%	-	-	-
Eggs laying/bird	No.	-	-	-
Income Generation/unit	Rs.	-	-	-
B:C Ratio	-	-	-	-

OFT-19

Title of On-Farm Trial:	Assessment of Pro Super Bags for safe storage of pulses
Year/Season:	Rabi,2024-25
Problem diagnosis:	Losses in grains/pulses due to no prop storage (30%)
Thematic area	WOE
No of trials:	05
No. of farmers/farm women involved	05
Farmers’ practices (T1)	Use of gunny bags for storage of pulses
Treatments (T2)	Use of pro super beg
Source of technology:	ICAR-IRRI, 2012
Characteristics of technology:	Vacuum sealed for log time safe storage of pulses
Name of Crop/Enterprises:	Pulses
Performance indicator/parameter	% of infestation, Duration of storage (days)

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (FP)	T2(R P)	T3(R P)
Infestation %	%	-	-	-
Losses %	%	-	-	-

OFT-20

Title of on-farm trial:	Assessment of Jeewamrut to enhance the Production of Vegetables crops in Rural Areas
Year/Season:	Rabi,2024-25
Problem diagnosis:	Higher Use of Chemicals in Vegetable Crops
Thematic area: (Focus area in DFI and nutri smart initiatives)	Natural Farming (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- 2024
Date of harvesting:	December -2024
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Yield	q./ha,
B:C Ratio	Nos.

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	Demonstration on STV based INM in hybrid Maize (Line Sown) under Irrigated Condition in Vertisol	Urea, DAP, MOP, Zinc and Bio-fertilizer	Kharif-2024	02	05	Plant Height (cm), No. of grain / cob, Yield (q/ha) and B:C Ratio

2	Chick Pea	INM	Demonstration on STV based INM on Yield of Chickpea (JG 14) under Irrigated Situation in Vertisol	Urea, SSP, MOP, Zinc and Bio-fertilizer	Rabi-2024-25	02	05	Plant height (cm), No. of pod /plant, Yield q/ha and B:C Ratio
3	Wheat	INM	Demonstration on STV based Integrated Nutrient Management in Wheat under Irrigated Condition in Vertisol	Urea, DAP, MOP, Zinc and Bio-fertilizer	Rabi-2024-25	02	05	No. of Effective Tiller /plant, Plant height(cm), Yield (q/ha) and BC Ratio
4	Green Pea	INM	Demonstration on STV based Integrated Nutrient Management on Yield of Green Pea in Irrigated Situation in Vertisol	Urea, SSP, MOP, Zinc Sulphate , PSB and Rhizobium	Rabi-2024-25	02	05	No. of Pod / Plant, Plant Height (cm) and Yield (q/ha) and BC 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	Trichoderma, Carboxin + Thiram, Trifloxystrobin + Tebuconazole	Kharif-2024	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 : Rhizobium spp @10ml kg-1) + Need based foliar spraying of (Betacyfluthrin 8.49%+ Imidachloprid 19.81w/w) @ 350ml ha-1 at time 20-25 DAS and (Thiamethoxam 12.6% +Lambdacyhlothrin 9.5%) 247ZC @ 125ml ha-1 at 55 Days after sowing	Thiamethoxam, (Betacyfluthrin + Imidachloprid), (Thiamethoxam + Lambdacyhlothrin)	Kharif-2024	02	05	Plant Height, Pods/Plant ,DI%, Yield q/ha
7	Chickpea	IPM	Deep Summer Ploughing + Seed treatment (Carboxin + Thiram@3g kg ⁻¹ seed: Thiamethoxam 30FS @10ml kg ⁻¹ : Rhizobium spp	Thiamethoxam, Emamectin Benzoate	Rabi 2024-25	02	05	Plant Height, Pods/Plant ,DI%, Yield q/ha

			@10ml kg ⁻¹) + Bird burchers @ 50 ha ⁻¹ + Need based foliar spraying of Enamectin Benzoate@ 80g ha ⁻¹ at time 35 DAS and 75 Days after sowing					
8	Chickpea	IPM	Cow Urean, Water, Chilli, Garlic and Datura	Green Chilli & Garlic	Rabi 2024-25	02	05	Plant Height, Pods/Plant ,Pest Incidance %, Yield q/ha
9	Maize	IPM	Foliar application of Flubendamide 480 SC @ 150 ml/ha	Flubendamide 480 SC @ 150 ml/ha	Kharif ,2024	02	05	Infestation % of FAW, Yield Q/ha, B:C ratio
10	Mustard	IDM	Seed treatment with Metalaxyl 35 SD @ 6 gm/kg + two foliar spray of Mancozeb – 64% + Metalaxyl- 8% (Ridomil mz-72 WP) @ 2 gm /lit at 25 and 75 DAS	Metalaxyl 35 SD + Mancozeb – 64% + Metalaxyl- 8% (Ridomil mz-72 WP)	Rabi ,2024-25	02	05	Yield Q/ha, % Disease Incidence and B:C ratio

Frontline Demonstrations of Agricultural Extension: FLD-11

Title of FLD	Demonstration 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
Crop	Soybean
Thematic area	ICT
Technology for demonstration	Visual Based Social Media ‘WhatsApp’ for Dissemination of Technology
Season and year	Kharif, 2024
No. of farmers/ demonstration	80
Area (ha)	-
Data on parameter in relation to technology demonstrated	Demonstration: Dissemination of agricultural technologies by using visual based social media ‘Whatsapp’.
	Local Check/ Farmer Practice: Less use of innovative visual based media for agricultural information
Parameters identified	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 Whatsapp Message 10. Impact of the Whatsapp Message 11. Feedback

FLD-12

Title of FLD	Demonstration of Effectiveness of Visual Based Social Media ‘WhatsApp’ for Dissemination of Wilt Management Technology in Chickpea Under Soybean-Wheat Crop Sequence in Black Soil Year-1
Crop	Chickpea

Thematic area	ICT
Technology for demonstration	Visual Based Social Media ‘WhatsApp’ for Dissemination of Technology
Season and year	Rabi, 2024
No. of farmers/ demonstration	80
Area (ha)	-
Data on parameter in relation to technology demonstrated	Demonstration: Dissemination of agricultural technologies by using visual based social media ‘Whatsapp’. Local Check/ Farmer Practice: Less use of innovative visual based media for agricultural information
Parameters identified	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 Whatsapp Message 10. Impact of the Whatsapp Message 11. Feedback

FLD-13

Title of FLD	Demonstration of Farmers Field School (FFS) on Chickpea production under KVK-ATMA convergence
Crop	Chickpea
Thematic area	KVK –ATMA Convergence
Technology for demonstration	Farmers Field Schools
Season and year	Rabi, 2024
No. of farmers/ demonstration	30 (2x15)
Area (ha)	-
Data on parameter in relation to technology demonstrated	Demonstration: Technical backstopping of Farmers through Farmers Field Schools Local Check/ Farmer Practice: Farmers not attending farmers field schools
Parameters identified	1. Extents of Adoption 2. Knowledge level 3. Change in skill 4. Change in attitude 5. Feedback of farmers

FLD-14

Title of FLD	Demonstration of Public Addressing System an audio devices for farmer’s motivation towards participation in off campus training programmes
Crop	Soybean, Chickpea/ Wheat and Summer Green gram
Thematic area	ICT
Technology for demonstration	Public Addressing System
Season and year	Kharif-Rabi-Zaid, 2024-25
No. of farmers/ demonstration	100
Area (ha)	-
Data on parameter in relation to technology demonstrated	Demonstration: Technical backstopping of Farmers by use of Public Addressing System Farmers backstopping without use of Public Addressing System
Parameters identified	1. Percent increase/decrease in participation of farmers 2.Time taking by farmers to assemble at training spot 3.Change in attitude of farmers towards PAS system 4. 5. farmers feed back

Frontline Demonstrations of Home Science: FLD-15

Title of FLD	Demonstration on Nutritional Kitchen Garden with Scientific Techniques
Crop	Vegetable and Fruit Crops
Thematic area	Inadequacy of Seasonal Vegetables and Fruits
Technology for demonstration	Nutritional Kitchen Garden
Critical inputs	Hybrid Vegetable Seeds, Seedlings and Fruits Saplings
Season and year	Round the Year (2024-25)
Area (ha)	250 m ² per unit
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	% change in Consumption (gm/day)
Parameters identified	Yield (kg/unit area), Per capita Consumption (gm/ day), % change in Consumption (gm/day), % RDA, Consumption of Nutrients/day

FLD-16

Title of FLD	Demonstration on Improved Weeding Tool “Gruber Weeder” in Vegetable crops
Crop	Vegetable crops
Thematic area	Drudgery Reduction (WOE)
Problem Identified	High drudgery during weeding in Vegetable Crops
Technology for demonstration	Use of “Gruber Weeder” in Vegetable crops
Critical inputs	Gruber Weeder
Season and year	Rabi-2024
Area (ha)	1 ha
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	% Reduction in Drudgery
Parameters identified	Output (Area/hr.) Heart rate beat/min, Est. Energy Expenditure kj/min., % reduction in drudgery, % increase in efficiency

FLD-17

Title of FLD	Demonstration on effectiveness of Moringa Leaf Powder for Anaemic adolescence girls (13-15 years)
Crop	Moringa Oleifera
Thematic area	Nutritional Security
Problem Identified	Anaemia in Adolescent Girls (63%)
Technology for demonstration	Use of “Moringa Leaf Powder”
Critical inputs	Moringa Leaf Powder
Season and year	Rabi-2024
Area (ha)	1 ha
No. of farmers/ demonstration	05
Data on parameter in relation to	% Change in Haemoglobin (Before and After)

technology demonstrated	
Parameters identified	Sensory Evaluation, Nutritional Evaluation, Anthropometric Measurements (Weight in Kg.), Haemoglobin % before and after

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	-	240
2	Farmers Training	12	-	240
3	Media coverage	18	-	Mass
4	Training for extension functionaries	05	-	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
-	-	-	-	-	-	-	-	-

**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 (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Oilseed (Soybean)	-	-	Improved Seed	Kharif-24	20	-	Yield (q/ha)
2	Oilseed (Mustard)	-	-	Improved Seed	Rabi, 2024-25	100	-	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	06	-	120

2	Farmers Training	04	-	80
3	Media coverage	06	-	Mass
4	Training for extension functionaries	02	-	30

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		Total	
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
Any other (Women and Chile Care)	02	02	-	-	-	-	-	-	-	-	40
TOTAL	06	06	-	-	-	-	-	-	-	-	120

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	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	02	02	-	-	-	-	-	-	40
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	02	02	-	-	-	-	-	-	40
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	02	02	-	-	-	-	-	-	40

management									
Soil and Water Conservation									
Integrated Nutrient Management	03	03	-	-	-	-	-	-	60
Production and use of organic inputs	05	05	-	-	-	-	-	-	100
Management of Problematic soils									
Micro nutrient deficiency in crops	01	01	-	-	-	-	-	-	20
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	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	01	01	-	-	-	-	-	-	20
Storage loss minimization techniques	01	01	-	-	-	-	-	-	20
Value addition	01	01	-	-	-	-	-	-	20
Income generation activities for empowerment of rural Women	01	01	-	-	-	-	-	-	20
Location specific drudgery reduction technologies	01	01	-	-	-	-	-	-	20
Rural Crafts	-	-	-	-	-	-	-	-	
Women and child care	02	02	-	-	-	-	-	-	40
Total	11	11							220
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	03	03	-	-	-	-	-	-	60
Integrated Disease Management	14	14	-	-	-	-	-	-	280
Bio-control of	06	06	-	-	-	-	-	-	120

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	02	02	-	-	-	-	-	-	40
Group dynamics	02	02	-	-	-	-	-	-	40
Formation and Management of SHGs	02	02	-	-	-	-	-	-	40
Mobilization of social capital			-	-	-	-	-	-	
Entrepreneurial development of farmers/youths	03	03	-	-	-	-	-	-	60
WTO and IPR issues	02	02	-	-	-	-	-	-	40
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
GRAND TOTAL	59	59	-	-	-	-	-	-	1180
(B) RURAL YOUTH									
Production of organic inputs	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
Micro-enterprises	01	01	-	-	-	-	-	-	20
TOTAL	-	-	-	-	-	-	-	-	-
(C) Extension Personnel	01	01	-	-	-	-	-	-	20
TOTAL	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	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	F/FW	HYV of Soybean and its Production Technology	01	-	-	-	-	-	-	20
June	F/FW	HYV of Kodo and its Production Technology	01	-	-	-	-	-	-	20
October	F/FW	HYV of Chick Pea and its Production Technology	01	-	-	-	-	-	-	20
October	F/FW	HYV of Wheat and its Production Technology	01	-	-	-	-	-	-	20

July	F/FW	HYV of Green Gram and its Production Technology	01	-	-	-	-	-	-	20
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
June	F/FW	Nutritious diet preparation by using traditional foods	01	-	-	-	-	-	-	20
June	F/FW	Value added products from millets	01	-	-	-	-	-	-	20
July	F/FW	Role of micro-nutrients in human diet and their Sources	01	-	-	-	-	-	-	20
August	F/FW	Value added products from Soybean, Maize and Green Gram	01	-	-	-	-	-	-	20
July	F/FW	Importance of proper sanitation for healthy living	01	-	-	-	-	-	-	20
September	F/FW	Importance of Supplementary foods for infants	01	-	-	-	-	-	-	20
September	F/FW	Scientific techniques for minimizing insect-pest infestation during grain storage	01	-	-	-	-	-	-	20
October	F/FW	Awareness regarding Control Sickle Cell Anemia in Rural Areas	01	-	-	-	-	-	-	20
October	F/FW	Awareness regarding Income Generating activities to the SHGS	01	-	-	-	-	-	-	20
Plant Protection										
June	Farmer & Farm Women	Importance of deep summer ploughing for	01	-	-	-	-	-	-	20

		management of soil borne diseases								
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
April	Farmer & Farm Women	Importance of Soil testing in crop production	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	
Seed Production										
December	F/FW	Importance of Rouging in Seed Production Practices	01	-	-	-	-	-	-	20
March	F/FW	HYV of Summer Green Gram and its Production Technology	01	-	-	-	-	-	-	20
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
June	F/FW	Household food security by kitchen gardening and nutrition gardening	01	-	-	-	-	-	-	20
July	F/FW	Design and development of low/minimum cost diet	01	-	-	-	-	-	-	20
August	F/FW	Designing and development for high nutrient efficiency diet	01	-	-	-	-	-	-	20
August	F/FW	Minimization of nutrient loss in processing	01	-	-	-	-	-	-	20
September	F/FW	Gender mainstreaming through SHGs	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	
September	F/FW	Storage loss minimization techniques	01	-	-	-	-	-	-	20
October	F/FW	Value addition	01	-	-	-	-	-	-	20
November	F/FW	Income generation activities for empowerment of rural Women	01	-	-	-	-	-	-	20
November	F/FW	Location specific drudgery reduction technologies	01	-	-	-	-	-	-	20
December	F/FW	Women and Child Care	01	-	-	-	-	-	-	20
January	F/FW	Women and Child Care	01	-	-	-	-	-	-	20
Plant Protection										
June	Farmers & Farm women	Seed coated with Beejamrit for protecting seedlings	01	-	-	-	-	-	-	20
June	Farmers & Farm women	Jeevamrit to enhance soil micro flora for soil borne diseases management	01	-	-	-	-	-	-	20
July	Farmers & Farm women	Application of Agneyastra and Neemastra to manage broad spectrum pests	01	-	-	-	-	-	-	20
July	Farmers & Farm women	Use of botanical pesticides to mange of diseases	01	-	-	-	-	-	-	20
July	Farmers & Farm women	IDM in urd bean for diseases management	01	-	-	-	-	-	-	20
August	Farmers & Farm women	Integrated Disease Management in Horticultural crops	01	-	-	-	-	-	-	20
August	Farmers & Farm	Role of <i>Trichoderma</i>	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	
	women	spp in crop production								
October	Farmers & Farm women	Integrated Disease Management in wheat	01	-	-	-	-	-	-	20
October	Farmers & Farm women	Integrated Pest Management in Chickpea crop	01	-	-	-	-	-	-	20
October	Farmers & Farm women	Integrated Disease Management in Mustard crops	01	-	-	-	-	-	-	20
November	Farmers & Farm women	Integrated Disease Management Chickpea for soil born disease management	01	-	-	-	-	-	-	20
October	Farmers & Farm women	IDM in Chickpea against soil borne Diseases	01	-	-	-	-	-	-	20
April	Farmers & Farm women	Integrated Pest management techniques in summer Greengram	01	-	-	-	-	-	-	20
June	Farmers & Farm women	Importance and methods of soil treatment and seed treatment of kharif crops	01	-	-	-	-	-	-	20
July	Farmers & Farm women	IDM in soybean against Soil borne Diseases	01	-	-	-	-	-	-	20
June	Farmers & Farm women	Seed and soil treatment for management of fall army worm 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	
		Maize crop								
August	Farmers & Farm women	Integrated Disease Management in Blackgram	01	-	-	-	-	-	-	20
September	Farmers & Farm women	Importance of Panchgavya in terms of plant protection in kharif crops	01	-	-	-	-	-	-	20
November	Farmers & Farm women	Role of Bio- pesticides in crop Pest management	01	-	-	-	-	-	-	20
October	Farmers & Farm women	Insect- Pest management through Bio- pesticides in crop production	01	-	-	-	-	-	-	20
June	Farmers & Farm women	Method of soil treatment against Wilt disease	01	-	-	-	-	-	-	20
September	Farmers & Farm women	Role of Trichoderma species in crop Production	01	-	-	-	-	-	-	20
December	Farmers & Farm women	Preparation of Neem Astra under Natural farming	01	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
January	Farmers & Farm women	Multiple cropping pattern need to maximize income of farmers	01	-	-	-	-	-	-	20
February	Farmers & Farm women	Importance and opening of seed societies for quality seed supply and income generation	01	-	-	-	-	-	-	20
March	Farmers & Farm women	Group marketing approach to	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	
		fetch high price of agricultural produce								
April	Farmers & Farm women	Importance of digital ICTs like apps and social media among farming community	01	-	-	-	-	-	-	20
May	Farmers & Farm women	Result demonstration to motivate the farmers for new technology	01	-	-	-	-	-	-	20
June	Farmers & Farm women	Importance of water pond and other water harvesting structures at village level in agriculture	01	-	-	-	-	-	-	20
July	Farmers & Farm women	Different agricultural information sources for farmers	01	-	-	-	-	-	-	20
August	Farmers & Farm women	Technical dimensions for sustainable agricultural and organic farming	01	-	-	-	-	-	-	20
September	Farmers & Farm women	Crop diversification to minimize crop loss risks	01	-	-	-	-	-	-	20
October	Farmers & Farm women	Role of polyhouse in off season supply of different crops for boosting the farmer’s income	01	-	-	-	-	-	-	20
November	Farmers & Farm	Recent agricultural	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	
	women	innovations for simplify the agricultural operations								
December	Farmers & Farm women	Importance of crop planning and suitable high value crops for good income generation.	01	-	-	-	-	-	-	20
Soil Science										
March	Farmer & Farm Women	Integrated Nutrient management in Summer Greengram	01	-	-	-	-	-	-	20
June	Farmer & Farm Women	Importance of Green manuring in Natural Farming	01	-	-	-	-	-	-	20
June	Farmer & Farm Women	Importance of Sulphur in Soybean crop production	01	-	-	-	-	-	-	20
June	Farmer & Farm Women	Role of Balanced fertilizer Management in Soybean & Urd	01	-	-	-	-	-	-	20
July	Farmer & Farm Women	Importance of Integrated Nutrient management in Hybrid Maize	01	-	-	-	-	-	-	20
July	Farmer & Farm Women	Role of Bio- fertilizer in Oilseed crop production	01	-	-	-	-	-	-	20
July	Farmer & Farm Women	Role of Jivamrit in Natural Farming	01	-	-	-	-	-	-	20
August	Farmer & Farm	Importance of Micronutrients	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	
	Women	in Vegetable crops								
June	Farmer & Farm Women	Role of Vermi- compost in crop production	01	-	-	-	-	-	-	20
October	Farmer & Farm Women	Integrated Nutrient management in Mustard Production	01	-	-	-	-	-	-	20
October	Farmer & Farm Women	Importance of Bio-fertilizer in Chickpea crop production	01	-	-	-	-	-	-	20
November	Farmer & Farm Women	Role of balance fertilizer Management in Wheat crop production	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										
December	RY	Income Generation (Rural Craft)	05	-	-	-	-	-	-	20
January	RY	Preservation of Fruits and Vegetables	05	-	-	-	-	-	-	20
Plant Protection										
December	Rural Youth	Mushroom : A source of	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	
		Farmer’s income								
Agriculture Extension (Capacity Building and Group Dynamics)										
December 2024	Rural Youth	Microenterprises Establishment for income generation for unemployed rural youth	05	-	-	-	-	-	-	20
Soil Science										
March	Rural Youth	Vermi- compost production :- A source of Farmers income	05	-	-	-	-	-	-	20

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	
Science										
March	Extension Workers	Role of Soil testing in Nutrient management in Summer Greengram	01	-	-	-	-	-	-	20
July	Extension Workers	Role of Bio- fertilizer in crop production	01	-	-	-	-	-	-	20

[illegible][illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	02	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	02	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	10	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	-	-
OILSEEDS	Soybean	JS-21-72	Approx-180 q.
PULSES	-	-	-
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	-	-	-
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-December-2024	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	--	16
2	Social Media (WhatsApp, Facebook, Twitter, Instagram etc.)	--	15
3	Newspaper Coverage	Local News Paper	25

Success stories/Case studies identified for development as a case: ...6...(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	Line deptt
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	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 : 60

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 at KVK, Harda

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Soil Testing Kit	2	Working Condition

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	17	
Water Samples	-	-	-	
Total	500	500	17	

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
Capacity building of farmers & Farm women	Convergence, Technical support

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

Demo	Activity details	Targeted Beneficiaries/Area/Coverage
Natural Farming	Trainings, Demonstrations, Awareness Programmes	Harda, Timarni, Khirkiya
Seed Hub	Seed Production of Green Gram and Chick Pea	Harda, Timarni, Khirkiya
-	-	-

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 3000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 2172	Improved HYV	4
		NRC130		4
		NRC136		4
		NRC138		4
		NRC142		4
		JS2069		4
		JS2098		4
		JS20-116		4
		JS2034		4
		RVS2001-4		4
		RVS2002-4		4
Wheat	Rabi	DDW47	Improved HYV	4
		HI8759		4
		JW3382		4
		MPO1215		4
		MPO1106		4
		JW3211		4
		MP1142		4
		MP3336		4
		MP1202		4
		MP1203		4

		GW366		4
		GW322		4
		GW451		4
		HI8737		4
		HI1605		4
		HI1531		4
		HI8663		4
		HI8498		4
		HI8627		4
		HI1544		4
		HI8713		4
		HD2987		4
		HD2932		4
Chickpea	Rabi	RVG204	Improved HYV	4
		RVG203		4
		RVG202		4
		RVG201		4
		JG24		4
		JG12		4
		JG14		4
		JG130		4
		JG36		4
		JG63		4
		Vishal		4

Vegetable Crops under Organic Nutritional Kitchen Garden under Crop Cafeteria

Spinach	Round the Year	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 2024

KVK Jabalpur

Year of sanction: 2004

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.2023)

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. Rashmi Shukla	Senior Scientist and Head	Home Science	37400-67000+ AGP 9000	09.03.2007		9425152841		
2	Subject Matter Specialist	Dr. D. K. Singh	Scientist	Agril. Extension	15600-39100+ AGP 8000	24.01.2007	24.01.2007	6261546761		
3	Subject Matter Specialist	Dr. A.K. Singh	Scientist	Soil Science	15600-39100+ AGP 8000	27.01.2007		9424638238		
4	Subject Matter Specialist	Dr. Neelu Vishwakarma	Scientist	Home Science	15600-39100+ AGP 8000	24.01.2007		9425801341		
5	Subject Matter Specialist	Dr. Siddharth Nayak	Scientist	Agronomy	15600-39100+ AGP 6000	10.10.2011		9424684939		
6	Subject Matter Specialist	Dr. Akshata Tomar	Scientist	Horticulture	15600-39100+ AGP 6000	18.08.2017	18.08.2017	9977117563		
7	Subject Matter Specialist	Dr. Pramod Gupta	Scientist	Plant Protection	15600-39100+ AGP 6000	07.10.2011		8989469036		
8	Programme Assistant	Shri N.K. Singhai	S.T.O.	Agronomy	Level 12/13	13.06.1995		9425362909		
9	Computer Programmer/ Programme Assistant	Smt. Gigi Annee Abraham	Computer Programmer/ Programme Assistant	Computer application	Level 10/12	20.03.2008	20.03.2008	9424314533		
10	Farm Manager	-								
11	Assistant	-								
12	Jr. Stenographer / Comp. Operator	-								
13	Driver	Shri Manoj Kumar Verma	Driver	-	Level 4/13	05.07.2008	05.07.2008	8435081172		
14	Driver	Shri Pramod Dubey	Driver	-	Level 4/13	9.07.08				
15	Supporting staff	-								
16	Supporting staff	-								

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	0.5
5	Others (specify)	-
Total		26.598

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)							
5	Fencing	Skill India	2021	120m ²	15568			
6	Rain Water harvesting system	ICAR	2019	165 cmx115cm	16408			
7	Threshing floor	-	-					
8	Farm godown	ICAR						
		-	-					
		-	-					

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2				
Bolero(Jeep)	2019	773368	61287	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2018	35850	Good
Xerox Machine	2012	80255	Good
Generator	2012	52399	Good
Video Camera	2017	15900	Good
	2020	19200	Good
	2021	19450	Good
Computers & Laser Printer	2013	69435	Good
	2017	33900	Good
	2019	119436	Good
	2019	18145	Good
	2021	13806	Good
Audio system	2010	66505	Good

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

Sl. No.	Tentative Date
1	Pre Kharif 2024
2	Pre Rabi 2024-25

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		
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	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, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	2.1	24.2	8.3
Feb, 23	0.0	28.8	8.4
Mar, 23	10.0	32.1	15.0
Apr, 23	55.6	36.0	18.2
May, 23	59.9	36.9	21.4
Jun, 23	298.4	37.7	25.9
July, 23	259.6	32.4	25.5
Aug, 23	502.9	30.2	23.9
Sept, 23	236.9	31.6	24.2
Oct. 23	0.6	31.8	17.8
Nov. 23	19.5	29.3	13.4
Dec. 23	30.5	24.7	10.4

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, Bheeta, Sihoda	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	Kundam	Kundam	Kurgaon, Badkhera, Dooda, Andhar, Rampuri	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	Jabalpur	Jabalpur	Jamuniya,	Ramtil, Chickpea,	Infestation of termite in	Seed

			Ghughari, Bargi	Linseed, Mustard, Kodo Kutki and Poultry	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.	Production and replacement Integrated pest & disease management Promotion of horticultural crops
4	Panagar	Panagar	Tiwarikheda, Nibora, Chhattarpur, Raipura, Umaria Patara, Imalai, Urdia	Rice, Mustard, Chickpea, 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	Sihora	Sihora	Khagamau, Mohtara, Ghorakoni	Rice, Mustard, Chickpea, 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	Sihora	Majholi	Taladewri	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	Patan	Patan	Khairi, Udana, Mada	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 1		FLD and CFLD 2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
36	520	29	320

Training 3		Extension Activities 4	
Number of Courses	Number of Participants	Number of activities	Number of participants
130	2600	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.

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
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)

Crop / Enterprise	Kondo, Wheat, Guava - throughout the year (2024)	
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 mix cropping (kondo+pigeonpea) system and no use of IFS components	
Farmers' Practices	Mix cropping of kondo and pigeonpea in <i>kharif</i> and fallow in <i>rabi</i> season	
Details of technologies selected for assessment	T ₁	Mix cropping of kondo and pigeonpea in <i>kharif</i> and fallow in <i>rabi</i> season
	T ₂	Kondo (JK137) – Wheat (JW 3288/ HI 1544)
	T ₃	: Kondo (JK137) – Wheat (JW 3288/ HI 1544) and Guava plantation (100 plants) in 0.2 ha

Source of technology	JNKVV (2018)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs.33500/-
Critical input	<i>Seed, guava plants</i>
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	Hybrid maize (Kharif 2024)
Title of on-farm trial	Assessment of Nanofertilizer on growth, grain yield and managing Turcicum Leaf Blight disease in maize
Problem diagnosed	Low yield and heavy infection of Turcicum Leaf Blight due to imbalanced use of nutrients and no use of nanofertilizers
Farming situation	Rainfed
Production system and thematic area	Mixed Farming – Integrated Crop Management
Farmers' practices (T1)	Use of NPK @ 77:46:0 kg/ha
Details of technologies selected for assessment/refinement Treatments	T2: 50% N, 100% PK (RDF-120:60:40 kg/ha), 0% Zinc + 2 sprays of IFFCO nano N (4ml/l) mixed with IFFCO nano Zn (2 ml/l) at 25-30 DAS and 45-50 DAS T3: 50% N, 100% PK, 0% Zinc + 2 sprays of IFFCO nano N (4ml/l) mixed with IFFCO nano Zn (2 ml/l) and IFFCO nano Cu (2ml/l) at 25-30 DAS and 45-50 DAS
Source of technology	UAS Raichur (2021)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	10
Critical input	IFFCO nano N, nano Zn, and nano Cu
Performance indicators Observation to be recorded	Crop height (cm), Weight of 100 kernel (g), Weight of cob (g), Yield (q/ha), Severity of Turcicum leaf blight (%), Net return (Rs/ha), B:C ratio

Cost of input	Rs. 43100/-
Total cost	Rs. 51800/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Rice crop residues (Rabi 2024-25)
Title of on-farm trial	Assessment of lignocellulolytic microbial consortia for in-situ decomposition of rice crop residues
Problem diagnosed	No use of microbial consortia for in-situ residue decomposition, pollution while burning crop residue and soil health deterioration
Farming situation	Irrigated
Production system and thematic area	Mixed Farming - Resource conservation Technology
Farmers' practices (T1)	No use of microbial consortia for in-situ decomposition of rice residues
Details of technologies selected for assessment/refinement Treatments	T2: Removal of crop residues from field after harvesting of the rice crop T3: Fresh cattle dung slurry (1.18 t) mixed with urea (0.5%), microbial consortia (500g fungal mat + 10 L of bacterial inoculum + 10 L of actinomycetes inoculums), curd (7.4 kg) and jaggery (14.8 kg) spread over the left over shredded residues (1 t) in the field, followed by 1st irrigation, thoroughly mixing and incorporation in the soil using rotavator and 2nd Irrigation application after 15 days of residue incorporation.
Source of technology	IISS (2021)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Critical input	Microbial consortia
Performance indicators Observation to be recorded	Soil pH, EC (dS/m), Total SOC (%), Water soluble carbon (%), soil microbial biomass carbon (%); Available N, P & K (kg/ha) - in crop residue removal (CRR), crop residue burning (CRB) and in-situ decomposition (IND), Nutrient (N, P2O5, K2O) loss in crop residue burning
Cost of input	Rs.26000/-

Total cost	Rs.34800/-

Details of On Farm Trial (OFT)

Crop / Enterprise	Wheat cv. JW 3382 (Rabi 2024-25)	
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. 20900/-	
Critical input	Seed, Plastic drum	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. 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	Soybean (Summer 2024)
Title of on-farm trial	Assessment of soybean cv. JS 20-34 and JS 20-69 in maize-vegetable pea-green gram cropping system
Problem diagnosed	Less return in maize-vegetable pea-green gram cropping system due to pest and disease complex in two continuous legume crops
Farming situation	Irrigated

Production system and thematic area	Mixed Farming – Crop diversification
Farmers' practices (T1)	Cultivation of greengram in summer season
Details of varieties selected for assessment/refinement Treatments	T2: Soybean cv. JS 20-34 (Duration: 86-88 days, potential 20-22 q/ha) T3: Soybean cv. JS 20-69 (Duration: 93-95 days, potential 25-30 q/ha)
Source of variety	JNKVV (2013 & 2015)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Critical input	Seed
Performance indicators Observation to be recorded	Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha), Net income (Rs./ha/year), B:C ratio
Cost of input	Rs.32000/-
Total cost	Rs.42500/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Rice (Kharif 2024)
Title of on-farm trial	Assessment of pre-mix post-emergence herbicide florpyrauxifen-benzyl + penoxsulam in transplanted rice
Problem diagnosed	Low yield due to less WCE of bispyriback sodium 10% SC in transplanted rice
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – Integrated Weed Management
Farmers' practices (T1)	Use of bispyriback sodium 10% SC @ 20-25 g a.i./ha at 5-7 leaf stage
Details of technologies selected for assessment/refinement Treatments	T2: One hand weeding T3: Pre-mix PoE herbicide florpyrauxifen-benzyl (1.31%) + penoxsulam (2.1%) OD @ 1.25 lit/ha at 3-5 leaf stage
Source of technology	DWR (2022)
No. of farmers	5
Area of each trial	0.4 ha

No of trial	5
Critical input	Pre-mix post-emergence herbicide
Performance indicators Observation to be recorded	Plant height (cm), No. of tillers /hill, Weed population and biomass/m ² , WCE (%), No. of panicles / plant, No. of seeds/panicle, Seed yield (q/ha)
Cost of input	Rs.8000/-
Total cost	Rs.17500/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Kondo cv. JK 137 (Kharif 2024)
Title of on-farm trial	Assessment of Cow urine and Jeevamrutha on the yield and economics of kondo cv. JK 137 under kondo-wheat cropping system in red yellow soil
Problem diagnosed	Low organic carbon, soil health deterioration and poor yield in current conventional farming
Farming situation	Semi-irrigated
Production system and thematic area	Mixed Farming - NF
Farmers' practices (T1)	No use of inorganic and organic sources in kondo
Details of technologies selected for assessment/refinement Treatments	T2: Seed treatment with Beejamrutha, application of Ghanajeevamrutha @ 500 kg/ha in two equal splits during sowing and at 30 DAS, live mulching with pigeonpea, soil drenching of cow urine (50%) + Jeevamrutha (100%) - 3 times @ 500 l/ha at every 21 days interval from 21 to 63 days crop stage
Source of technology	UASD (2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Critical input	Seed, Plastic drum
Performance indicators Observation to be recorded	Soil pH, EC (dS/m), SOM (%), OC (%), Microbial biomass (pre-sowing & post harvest), No. of tillers/plant, Yield (q/ha), Net Return (Rs/ha), B:C ratio
Cost of input	Rs.14000/-
Total cost	Rs.22000/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Hybrid chia (Rabi 2024-25)
Title of on-farm trial	Assessment of hybrid chia (<i>Salvia Hispanica</i> L.) cv. Maxican 2 and Black Panther in rice-chickpea cropping system
Problem diagnosed	Less return (Rs/ha/year) in current rice-chickpea cropping system
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – Crop diversification
Farmers' practices (T1)	Cultivation of chickpea in rabi season
Details of varieties selected for assessment/refinement Treatments	T2: Hybrid chia cv. Maxican 2 T3: Hybrid chia cv. Black Panther
Source of variety	Agri Mitra Services Pvt. Ltd (2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Critical input	Seed
Performance indicators Observation to be recorded	Yield (q/ha), Net Return (Rs/ha), Net income (Rs/ha/year), B:C ratio
Cost of input	Rs.30000/-
Total cost	Rs.39000/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Soybean (Kharif 2024)
Title of on-farm trial	Assessment of soybean cv. JS 20-94 and Raj Soya-24 (RVS 2002-4) in soybean-wheat cropping system
Problem diagnosed	Low yield of soybean due to use of old varieties JS 93-05, JS 95-60

Farming situation	Irrigated
Production system and thematic area	Mixed Farming – Varietal replacement
Farmers' practices (T1)	Cultivation of old varieties JS 93-05, JS 95-60
Details of varieties selected for assessment/refinement Treatments	T2: Soybean cv. JS 20-94 (Duration: 95-100 days, potential yield: 20-22 q/ha) T3: Soybean cv. Raj Soya-24 (RVS 2002-4) Duration: 91-94 days, potential yield: 22-30 q/ha
Source of variety	JNKVV (2018) & RVSKVV (2017)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Critical input	Seed
Performance indicators Observation to be recorded	Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha), B:C ratio
Cost of input	Rs.32000/-
Total cost	Rs.41000/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Rice (Kharif 2024)
Title of on-farm trial	Assessment of rice cv. JR 21 in rice-wheat cropping system
Problem diagnosed	Low yield of rice due to use of medium duration varieties in rainfed condition
Farming situation	Rainfed
Production system and thematic area	Mixed Farming – Varietal Evaluation
Farmers' practices (T1)	Use of medium duration varieties IR 36/IR 64
Details of varieties selected for assessment/refinement Treatments	T2: Rice cv. JR 21 (110-115 days, potential yield: 48-50 q/ha)
Source of variety	JNKVV (2022)

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
Performance indicators Observation to be recorded	Panicles/plant, seeds/panicle, Yield (q/ha), Net Return (Rs/ha), B:C ratio
Cost of input	Rs.5000/-
Total cost	Rs.12800/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Chickpea (Rabi 2024-25)
Title of on-farm trial	Assessment of chickpea cv. JG 18 and JG 52 in rice-chickpea cropping system
Problem diagnosed	Low yield due to use of chickpea varieties JG 11/JG 130
Farming situation	Semi-irrigated
Production system and thematic area	Mixed Farming – Varietal Evaluation
Farmers' practices (T1)	Use of old varieties JG 11/JG 130
Details of varieties selected for assessment/refinement Treatments	T2: Chickpea cv. JG 18 (108-112 days, potential yield 22-24 q/ha) T3: Chickpea cv. JG 52 (110-115 days, potential yield 22-25 q/ha)
Source of variety	JNKVV (2023)
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
Performance indicators Observation to be recorded	Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha), B:C ratio
Cost of input	Rs.18000/-
Total cost	Rs.26500/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Chickpea (Rabi 2024-25)
Title of on-farm trial	Assessment of PoE herbicides for weed management in chickpea
Problem diagnosed	Significant yield loss in chickpea due to weed infestation
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – IWM
Farmers' practices (T1)	Use of PE herbicide pendimethalin 30%EC @ 0.75 kg a.i./ha
Details of technologies selected for assessment/refinement Treatments	T2: Pre-mix PoE herbicide Imazethapyr (35%) + imazamox (35%) @ 70 g a.i./ha at 25 DAS T3: PoE herbicide Topramezone @ 20.6 g a.i./ha at 25 DAS
Source of variety	ICAR-IIPR, RLBCAU & DWR (2021)
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	PoE herbicide
Performance indicators Observation to be	Weed density (no./m ²) at 45 DAS, WCE (%), Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha),

recorded	B:C ratio
Cost of input	Rs.5000/-
Total cost	Rs.12500/-

Details of On Farm Trial (OFT)

Crop/Enterprise	Pigeonpea (Kharif 2024)
Title of on-farm trial	Assessment of Organic component for management of pod borer complex in 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.
Farming situation	Rainfed
Production system and thematic area	Mixed Farming / Integrated Pest Management
Farmers' practices	Spray of Profenophos-50 EC @ 2.5ml/lit. after severe infestation of pod borer
Details of technologies selected for assessment/refinement Treatments	T1: Spray of Profenophos-50 EC @ 2.5ml/lit. after severe infestation of pod borer T2: Summer ploughing + Erecting the branched twigs @ 20 /ha + Neem oil @ 3000ppm + Two spray with spray of Beauveria bassiana @ 1000ml/ha + Fourth spray of Spinosad – 45 SC @ 125 ml/ ha at ETL T3: 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 – 45 SC @ 125 ml/ ha at ETL
Source of technology	AAU, Anand , Gujarat/ 2015
No. of farmers	10
Area of each trial (M2)	2000
No of trials	10
Critical Input	Seed @ 20kg/ ha Neem oil @ 1000ml, NSKE - 5% @ 2.0lit./ha Beauveria bassiana @ 1000ml/ha Spinosad @ 125ml/ha HaNPV- 300LE/ha

Performance indicator/parameter	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
Cost of Input (Rs.)	9500.0
Total Cost(Rs.)	22650.0

Details of On Farm Trial (OFT)

Crop	Maize (Kharif 2024)
Title of on-farm trial	Assessment of Integrated Management of Banded Leaf and Sheath blight in Maize
Problem diagnosed	Heavy yield loss (up to 40%) in Maize due to severe infestation (35-50%) of Banded Leaf and Sheath blight of Maize in 12000 ha area.
Farming situation	Rainfed
Production System & Thematic area	Mixed Farming / Integrated Disease Management
Details of technology selected for assessment	T1 –Hybrid variety (BIO 9782) + seed treatment with Mancozeb @ 2 g / kg seed T2 –Use of resistant/tolerant hybrids +Seed treatment with Trichoderma viridi @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- Use of tolerant hybrids + Soil treatment with Trichoderma viridi @ 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
Source of technology	IIMR/ NCIPM, New Delhi, 2014
No. of farmers	10
Area of each trial (M2)	2000
No of trials	10
Critical Input	Seed @ 15kg/ ha Mancozeb- 2g/ kg seed Trichoderma viridi @ 5000ml/ha Vermicompost @ 500kg/ ha Amistar top @ 500ml/ha Vitavax Power @ 2 g / kg seed
Performance indicator/parameter	Disease incidence (%), Reduction in Disease incidence (%), Yield (kg/ha), Net Return (Rs./ha), B: C

	Ratio, Feedback and Farmer's reaction
Cost of Input (Rs.)	9600.0
Total Cost(Rs.)	18680.0

Details of On Farm Trial (OFT)

Crop	Tomato (Pre Rabi 2024)
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
Farming situation	Irrigated
Production System & Thematic area	Mixed Farming / Integrated Pest Management
Details of technology selected for assessment	T1-Spray of Chloropyriphos -20EC @ 1.25 lit./ha at severe infestation
	T2- Erection of bird perches@ 50/ ha + Spray of HaNPV@ 250 LE at early occurrence of pod borer infestation + second spray of HaNPV @250 LE a15 days after first spray + Spray of Spinosad -45 SC @ 0.4ml/ lit at ETL
	T3- Erection of bird perches @ 50/ ha + Spray of NSKE @ 5% at early occurrence of pod borer infestation + second spray of NSKE @ 5% at 15 days after first spray + Spray of Spinosad - 45 SC @ 0.4ml/ lit at ETL
Source of technology	IIVR, Varanasi, 2013 and TNAU, Coimbatore, 2008
No. of farmers	10
Area of each trial (M2)	1000
No of trials	10
Critical Input	Chloropyriphos -20 EC – @ 2.5 lit/ha Ha NPV @ 250 LE/ha NSKE - 5% - 2000 ml/ ha Spinosed - 45 SC - @ 125 ml/ha
Performance indicator/parameter	Fruit borer infestation, Reduction in fruit borer infestation, Yield (kg/ha), Net Return (Rs./ha), B: C Ratio, Feedback and Farmer's reaction
Cost of Input (Rs.)	18950.0
Total Cost(Rs.)	25622.0

Details of On Farm Trial (OFT)

Crop	Wheat (Rabi 2024-25)
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
Farming situation	Irrigated
Production System & Thematic area	Mixed Farming / Integrated Disease Management
Details of technology selected for assessment	T1- GW-366/322 + seed treatment with Thiram @ 2g / kg seed
	T2-Seed treatment with combination of Tebuconazole (Raxil 2DS @ 1.00g) + bio agent fungus Trichoderma viride @ 4 g / kg seed + Foliar spray of Propiconazole 200EC @ 500ml/ ha at Panicle initiation
	T3-Seed treatment with combination of Vitavax Power -75% WP (Carboxin -37.5% +Thiram -37.5%) @ 3g/ kg seed +Soil treatment with Trichoderma viride @ 5lit./ha incubated with 50 kg vermicompost for 10 days + Foliar Spray Nativio - 75 WG (Tebuconazole- 50% Trifloxystrobin- 25 %WG) @ 300g/ha at 35 DAS + Foliar spray of Propiconazole 20 EC @ 500ml/ ha at 75 DAS.
Source of technology	ICAR-IARI , RARS, Indore (M.P.), 2021
No. of farmers	10
Area of each trial (M2)	2000
No of trials	10
Critical Input	Seed @ 100 kg/ha Thiram @ 32g/kg seed Raxil-2DS- @ 02 g/kg seed Trichoderma viridi @ 5000ml/ ha Vermicompost @ 500kg/ ha Confidor – @ 125 ml/ ha Nativo @ 300 ml/ ha Propiconazole @ 500ml/ ha
Performance indicator/parameter	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
Cost of Input (Rs.)	12500.0
Total Cost(Rs.)	20850.0

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	T ₁	Use of Old variety (MTU 1010)
	T ₂	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: (iv) Technical- yield (q/ ha) (v) Economic (vi) 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	T ₁	Use of Old variety (MTU 1010)
	T ₂	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: (vii) Technical- yield (q/ ha) (viii) Economic (ix) 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 selectedfor assessment	T ₁	Use of Old variety (JG-130)
	T ₂	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: (x) Technical- yield (q/ ha) (xi) Economic (xii) 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 selectedfor 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: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) 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: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) 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	
Problem diagnosed	Use of locally available variety of Chilli	
Farmers' Practices	Use of locally available variety of Chilli	
Details of technologies selected for	T ₁	Use of locally available variety of Chilli

assessment	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: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) 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 selectedfor 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: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Yield (q/ha), NR (Rs./ha), B:C Ratio	

Details of On Farm Trial (OFT)

Crop / Enterprise	Carrot	
Title of on farm trial	Assessment of HYV of carrot Pusa Rudhira	
Problem diagnosed	Use of locally available variety of carrot	
Farmers' Practices	Use of locally available variety of carrot	

Details of technologies selected for assessment	T ₁	Use of locally available variety of carrot
	T ₂	Improved variety Pusa rudhira
Source of technology	IARI 2011	
Plot size	800 sqm	
No. of farmers	05	
Total cost	4000/-	
Critical input	Seed	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) 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 2024
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 2024
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 2024-25
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 2024
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:

Details of On Farm Trial (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 (2024)	
Problem diagnosed	Less income due to mix cropping (kondo+pigeonpea) system and no use of IFS components	
Farmers' Practices	Mix cropping of kondo and pigeonpea in <i>kharif</i> and fallow in <i>rabi</i> season	
Details of technologies selectedfor assessment	T ₁	Mix cropping of kondo and pigeonpea in <i>kharif</i> and fallow in <i>rabi</i> season
	T ₂	Kondo (JK137) – Wheat (JW 3288/ HI 1544)
	T ₃	: Kondo (JK137) – Wheat (JW 3288/ HI 1544) and Guava plantation (100 plants) in 0.2 ha
Source of technology	JNKVV (2018)	

Plot size	0.4 ha
No. of farmers	5
Crop / Enterprise	Kondo, Wheat, Guava
Critical input	<i>Seed, guava plants</i>
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) 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)

Name of Discipline	Soil Science
Title of on-farm trial	Assessment of Nanofertilizer on growth, grain yield and managing Turcicum Leaf Blight disease in maize
Year/Season:	Kharif 2024
Problem diagnosed	Low yield and heavy infection of Turcicum Leaf Blight due to imbalanced use of nutrients and no use of nanofertilizers
Farming situation	Rainfed
Production system and thematic area	Mixed Farming – Integrated Crop Management
Farmers' practices (T1)	Use of NPK @ 77:46:0 kg/ha
Details of technologies selected for assessment/refinement Treatments	T2: 50% N, 100% PK (RDF-120:60:40 kg/ha), 0% Zinc + 2 sprays of IFFCO nano N (4ml/l) mixed with IFFCO nano Zn (2 ml/l) at 25-30 DAS and 45-50 DAS T3: 50% N, 100% PK, 0% Zinc + 2 sprays of IFFCO nano N (4ml/l) mixed with IFFCO nano Zn (2 ml/l) and IFFCO nano Cu (2ml/l) at 25-30 DAS and 45-50 DAS
Source of technology	UAS Raichur (2021)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	10
Crop/Enterprise	Hybrid maize
Performance indicators Observation to be recorded	Crop height (cm), Weight of 100 kernel (g), Weight of cob (g), Yield (q/ha), Severity of Turcicum leaf blight (%), Net return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Soil Science
Title of on-farm trial	Assessment of lignocellulolytic microbial consortia for in-situ decomposition of rice crop residues
Year/Season:	Rabi 2024-25
Problem diagnosed	No use of microbial consortia for in-situ residue decomposition, pollution while burning crop residue and soil health deterioration
Farming situation	Irrigated
Production system and thematic area	Mixed Farming - Resource conservation Technology
Farmers' practices (T1)	No use of microbial consortia for in-situ decomposition of rice residues
Details of technologies selected for assessment/refinement Treatments	T2: Removal of crop residues from field after harvesting of the rice crop T3: Fresh cattle dung slurry (1.18 t) mixed with urea (0.5%), microbial consortia (500g fungal mat + 10 L of bacterial inoculum + 10 L of actinomycetes inoculums), curd (7.4 kg) and jaggery (14.8 kg) spread over the left over shredded residues (1 t) in the field, followed by 1st irrigation, thoroughly mixing and incorporation in the soil using rotavator and 2nd Irrigation application after 15 days of residue incorporation.
Source of technology	IISS (2021)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Rice crop residues
Performance indicators Observation to be recorded	Soil pH, EC (dS/m), Total SOC (%), Water soluble carbon (%), soil microbial biomass carbon (%); Available N, P & K (kg/ha) - in crop residue removal (CRR), crop residue burning (CRB) and in-situ decomposition (IND), Nutrient (N, P ₂ O ₅ , K ₂ O) loss in crop residue burning

Details of On Farm Trial (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 2024-25	
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	
Crop / Enterprise	Wheat cv. JW 3382 (Rabi 2024-25)	
Performance indicators: IV. Technical- yield (q/ ha) V. Economic VI. 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)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of soybean cv. JS 20-34 and JS 20-69 in maize-vegetable pea-green gram cropping system
Year/Season:	Summer 2024
Problem diagnosed	Less return in maize-vegetable pea-green gram cropping system due to pest and disease complex in two continuous legume crops
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – Crop diversification

Farmers' practices (T1)	Cultivation of greengram in summer season
Details of varieties selected for assessment/refinement Treatments	T2: Soybean cv. JS 20-34 (Duration: 86-88 days, potential 20-22 q/ha) T3: Soybean cv. JS 20-69 (Duration: 93-95 days, potential 25-30 q/ha)
Source of variety	JNKVV (2013 & 2015)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Soybean
Performance indicators Observation to be recorded	Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha), Net income (Rs./ha/year), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of pre-mix post-emergence herbicide florpiauxifen-benzyl + penoxsulam in transplanted rice
Year/Season:	Kharif 2024
Problem diagnosed	Low yield due to less WCE of bispyriback sodium 10% SC in transplanted rice
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – Integrated Weed Management
Farmers' practices (T1)	Use of bispyriback sodium 10% SC @ 20-25 g a.i./ha at 5-7 leaf stage
Details of technologies selected for assessment/refinement Treatments	T2: One hand weeding T3: Pre-mix PoE herbicide florpiauxifen-benzyl (1.31%) + penoxsulam (2.1%) OD @ 1.25 lit/ha at 3-5 leaf stage
Source of technology	DWR (2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5

Crop/Enterprise	Rice
Performance indicators Observation to be recorded	Plant height (cm), No. of tillers /hill, Weed population and biomass/m ² , WCE (%), No. of panicles / plant, No. of seeds/panicle, Seed yield (q/ha)

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of Cow urine and Jeevamrutha on the yield and economics of kondo cv. JK 137 under kondo-wheat cropping system in red yellow soil
Year/Season:	Kharif 2024
Problem diagnosed	Low organic carbon, soil health deterioration and poor yield in current conventional farming
Farming situation	Semi-irrigated
Production system and thematic area	Mixed Farming - NF
Farmers' practices (T1)	No use of inorganic and organic sources in kondo
Details of technologies selected for assessment/refinement Treatments	T2: Seed treatment with Beejamrutha, application of Ghanajeevamrutha @ 500 kg/ha in two equal splits during sowing and at 30 DAS, live mulching with pigeonpea, soil drenching of cow urine (50%) + Jeevamrutha (100%) - 3 times @ 500 l/ha at every 21 days interval from 21 to 63 days crop stage
Source of technology	UASD (2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Kondo cv. JK 137
Performance indicators Observation to be recorded	Soil pH, EC (dS/m), SOM (%), OC (%), Microbial biomass (pre-sowing & post harvest), No. of tillers/plant, Yield (q/ha), Net Return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of hybrid chia (Salvia Hispanica L.) cv. Maxican 2 and Black Panther in rice-

	chickpea cropping system
Year/Season:	Rabi 2024-25
Problem diagnosed	Less return (Rs/ha/year) in current rice-chickpea cropping system
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – Crop diversification
Farmers' practices (T1)	Cultivation of chickpea in rabi season
Details of varieties selected for assessment/refinement Treatments	T2: Hybrid chia cv. Maxican 2 T3: Hybrid chia cv. Black Panther
Source of variety	Agri Mitra Services Pvt. Ltd (2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Hybrid chia
Performance indicators Observation to be recorded	Yield (q/ha), Net Return (Rs/ha), Net income (Rs/ha/year), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of soybean cv. JS 20-94 and Raj Soya-24 (RVS 2002-4) in soybean-wheat cropping system
Year/Season:	Kharif 2024
Problem diagnosed	Low yield of soybean due to use of old varieties JS 93-05, JS 95-60
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – Varietal replacement
Farmers' practices (T1)	Cultivation of old varieties JS 93-05, JS 95-60
Details of varieties selected for assessment/refinement Treatments	T2: Soybean cv. JS 20-94 (Duration: 95-100 days, potential yield: 20-22 q/ha) T3: Soybean cv. Raj Soya-24 (RVS 2002-4) Duration: 91-94 days, potential yield: 22-30 q/ha

Source of variety	JNKVV (2018) & RVSKVV (2017)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Soybean
Performance indicators Observation to be recorded	Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of rice cv. JR 21 in rice-wheat cropping system
Year/Season:	Kharif 2024
Problem diagnosed	Low yield of rice due to use of medium duration varieties in rainfed condition
Farming situation	Rainfed
Production system and thematic area	Mixed Farming – Varietal Evaluation
Farmers' practices (T1)	Use of medium duration varieties IR 36/IR 64
Details of varieties selected for assessment/refinement Treatments	T2: Rice cv. JR 21 (110-115 days, potential yield: 48-50 q/ha)
Source of variety	JNKVV (2022)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Rice
Performance indicators Observation to be recorded	Panicles/plant, seeds/panicle, Yield (q/ha), Net Return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of chickpea cv. JG 18 and JG 52 in rice-chickpea cropping system
Year/Season:	Rabi 2024-25
Problem diagnosed	Low yield due to use of chickpea varieties JG 11/JG 130
Farming situation	Semi-irrigated
Production system and thematic area	Mixed Farming – Varietal Evaluation
Farmers' practices (T1)	Use of old varieties JG 11/JG 130
Details of varieties selected for assessment/refinement Treatments	T2: Chickpea cv. JG 18 (108-112 days, potential yield 22-24 q/ha) T3: Chickpea cv. JG 52 (110-115 days, potential yield 22-25 q/ha)
Source of variety	JNKVV (2023)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Chickpea
Performance indicators Observation to be recorded	Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial	Assessment of PoE herbicides for weed management in chickpea
Year/Season:	Rabi 2024-25
Problem diagnosed	Significant yield loss in chickpea due to weed infestation
Farming situation	Irrigated
Production system and thematic area	Mixed Farming – IWM
Farmers' practices (T1)	Use of PE herbicide pendimethalin 30%EC @ 0.75 kg a.i./ha

Details of technologies selected for assessment/refinement Treatments	T2: Pre-mix PoE herbicide Imazethapyr (35%) + imazamox (35%) @ 70 g a.i./ha at 25 DAS T3: PoE herbicide Topramezone @ 20.6 g a.i./ha at 25 DAS
Source of variety	ICAR-IIPR, RLBCAU & DWR (2021)
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
Crop/Enterprise	Chickpea
Performance indicators Observation to be recorded	Weed density (no./m ²) at 45 DAS, WCE (%), Pods/plant, seeds/pod, Yield (q/ha), Net Return (Rs/ha), B:C ratio

Details of On Farm Trial (OFT)

Name of Discipline	Plant Protection
Title of on-farm trial	Assessment of Organic component for management of pod borer complex in Pigeonpea
Year/Season:	Kharif 2024
Problem diagnosed	Heavy yield loss (up to 70%) in Pigeonpea due to severe infestation (50-75%) of pod borer complex in 25000 ha area.
Farming situation	Rainfed
Production system and thematic area	Mixed Farming / Integrated Pest Management
Farmers' practices	Spray of Profenophos-50 EC @ 2.5ml/lit. after severe infestation of pod borer
Details of technologies selected for assessment/refinement Treatments	T1: Spray of Profenophos-50 EC @ 2.5ml/lit. after severe infestation of pod borer T2: Summer ploughing + Erecting the branched twigs @ 20 /ha + Neem oil @ 3000ppm + Two spray with spray of Beauveria bassiana @ 1000ml/ha + Fourth spray of Spinosad – 45 SC @ 125 ml/ ha at ETL T3: 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 – 45 SC @ 125 ml/ ha at ETL
Source of technology	AAU, Anand , Gujarat/ 2015
No. of farmers	10

Area of each trial (M2)	2000
No of trials	10
Crop/Enterprise	Pigeonpea
Performance indicator/parameter	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

Details of On Farm Trial (OFT)

Name of Discipline	Plant Protection
Title of on-farm trial	Assessment of Integrated Management of Banded Leaf and Sheath blight in Maize
Year/Season:	Kharif 2024
Problem diagnosed	Heavy yield loss (up to 40%) in Maize due to severe infestation (35-50%) of Banded Leaf and Sheath blight of Maize in 12000 ha area.
Farming situation	Rainfed
Production System & Thematic area	Mixed Farming / Integrated Disease Management
Details of technology selected for assessment	T1 –Hybrid variety (BIO 9782) + seed treatment with Mancozeb @ 2 g / kg seed T2 –Use of resistant/tolerant hybrids +Seed treatment with Trichoderma viridi @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- Use of tolerant hybrids + Soil treatment with Trichoderma viridi @ 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
Source of technology	IIMR/ NCIPM, New Delhi, 2014
No. of farmers	10
Area of each trial (M2)	2000
No of trials	10
Crop	Maize
Performance indicator/parameter	Disease incidence (%), Reduction in Disease incidence (%), Yield (kg/ha), Net Return (Rs./ha), B: C Ratio, Feedback and Farmer's reaction

Details of On Farm Trial (OFT)

Name of Discipline	Plant Protection
Title of on-farm trial	Assessment of integrated management of fruit borer techniques in Tomato
Year/Season:	Pre Rabi 2024
Problem diagnosed	Heavy yield loss (up to 50%) of tomato due to severe infestation of fruit borer in 500 ha area
Farming situation	Irrigated
Production System & Thematic area	Mixed Farming / Integrated Pest Management
Details of technology selected for assessment	T1-Spray of Chloropyriphos -20EC @ 1.25 lit./ha at severe infestation
	T2- Erection of bird perches@ 50/ ha + Spray of HaNPV@ 250 LE at early occurrence of pod borer infestation + second spray of HaNPV @250 LE a15 days after first spray + Spray of Spinosad -45 SC @ 0.4ml/ lit at ETL
	T3- Erection of bird perches @ 50/ ha + Spray of NSKE @ 5% at early occurrence of pod borer infestation + second spray of NSKE @ 5% at 15 days after first spray + Spray of Spinosad - 45 SC @ 0.4ml/ lit at ETL
Source of technology	IIVR, Varanasi, 2013 and TNAU, Coimbatore, 2008
No. of farmers	10
Area of each trial (M2)	1000
No of trials	10
Crop	Tomato
Performance indicator/parameter	Fruit borer infestation, Reduction in fruit borer infestation, Yield (kg/ha), Net Return (Rs./ha), B: C Ratio, Feedback and Farmer's reaction

Details of On Farm Trial (OFT)

Name of Discipline	Plant Protection
Title of on-farm trial	Assessment of Integrated Management of Fusarium Head Blight in Wheat under Rice-Wheat Cropping system
Year/Season:	Rabi 2024-2025
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
Farming situation	Irrigated

Production System & Thematic area	Mixed Farming / Integrated Disease Management
Details of technology selected for assessment	T1- GW-366/322 + seed treatment with Thiram @ 2g / kg seed
	T2-Seed treatment with combination of Tebuconazole (Raxil 2DS @ 1.00g) + bio agent fungus Trichoderma viride @ 4 g / kg seed + Foliar spray of Propiconazole 200EC @ 500ml/ ha at Panicle initiation
	T3-Seed treatment with combination of Vitavax Power -75% WP (Carboxin -37.5% +Thiram -37.5%) @ 3g/ kg seed +Soil treatment with Trichoderma viride @ 5lit./ha incubated with 50 kg vermicompost for 10 days + Foliar Spray Nativo - 75 WG (Tebuconazole- 50% Trifloxystrobin- 25 %WG) @ 300g/ha at 35 DAS + Foliar spray of Propiconazole 20 EC @ 500ml/ ha at 75 DAS.
Source of technology	ICAR-IARI , RARS, Indore (M.P.), 2021
No. of farmers	10
Area of each trial (M2)	2000
No of trials	10
Crop	Wheat (Rabi 2024-25)
Performance indicator/parameter	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

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of HYV variety of cowpea Kashi Nidhi
Year/Season:	Kharif 2024
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 Chillli Kashi Abha
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Use of locally available variety of Chillli
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 Chillli
T2 –Recommended Practice-	Use of variety of Chillli 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:	Chillli
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 2024-25
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 carrot Pusa Rudhira
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Use of locally available variety of carrot
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 carrot
T2 –Recommended Practice-	Improved variety Pusa rudhira
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI 2011
Characteristics of technology:	Long red roots with self coloured core, triangular shape, average yield 30t/ha
Name of Crop/Enterprises:	Carrot
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about Extension OFT:

Title of OFT	Assessment of Pea growers FPO members regarding income and employment generation (3rd Year)
Crop/Enterprise	Enterprise/ Pea
Problem diagnosed	Lack of awareness about income and employment generation of FPO members
Farming situation	Irrigated
Thematic area	Group approach
Farmers' practices	Non FPO Members farmers
Objective	➤ To study the profile of the FPO and FPO members ➤ To study the income and employment generation of FPO members regarding Pepproduction ➤ To study the major constraints and Issues faced by FPO members
No. of farmers	60 respondents
Area of each trial	24 ha
No of trial	60
Critical input	Quality seed, seed treatment, biofertilizer application, IPM practices through FPO Members

Performance indicators Observation to be recorded	➤ Profile of FPO & FPO members ➤ Income and employment generation through Pea production ➤ Knowledge & Adoption level of FPO members ➤ Decision making ability of FPO members ➤ Leadership ability of FPO members ➤ Major constraints & Issues of FPOs ➤ Feed back
Cost of input	2000/-
Total cost	Rs.7000/

Title of OFT	Assessment of FPO members regarding income and employment generation through Miner Millets production (3rd Year)
Crop/Enterprise	Enterprise / Kodo, Kutki & Bajara
Problem diagnosed	Lack of awareness about income and employment generation of FPO members through Miner millets production
Farming situation	Irrigated
Thematic area	Group approach
Farmers' practices	Non FPOs Members
Objective	➤ To study the profile of Miner millets producer FPO and FPO members ➤ To study the income and employment generation of FPO members through Miner millets production ➤ To study the major constraints and Issues faced by Miner millets producer FPO members
No. of farmers	90 respondents
Area of each trial	36 ha (12 ha each - Kodo, Kutaki & Bajra)
No of trial	90 (30 Respondents each crop)
Critical input	Quality seed, seed treatment, biofertilizer application and IPM practices through FPO Members

Performance indicators Observation to be recorded	➤ Profile of FPO & FPO members ➤ Income and employment generation through Miner millets production ➤ Knowledge & Adoption level of FPO members ➤ Decision making ability of FPO members ➤ Leadership ability of FPO members ➤ Major constraints & Issues of FPOs ➤ Feed back
Cost of input	2000/-
Total cost	Rs.7500/

Title of OFT	Assessment of Knowledge and Adoption level of Kisan Sarthi apps users who received messages (2nd Year)
Crop/Enterprise	Enterprise / Paddy, Niger & Linseed, Mustard
Problem diagnosed	The major problems faced by the farmers is lack of two way communication process(Queries) and timely technical information delivery
Farming situation	Irrigated / Rainfed
Thematic area	ICT
Farmers' practices	Non user of Kisan Sarthi portal
Objective	➤ To study the socio economic profile of the Kisan Sarthi portal users ➤ To study the knowledge & adoption of Kisan Sarthi portal user regarding crop production ➤ To study the constraints faced by Kisan sarthi portal users regarding crop production
No. of farmers	120 Respondents
Area of each trial	48 ha (12 ha each crop - Paddy, Niger & Linseed, Mustard)

No of trial	120 (30 Respondents each crop)
Critical input	Production and protection management of Paddy, Niger & Linseed, Mustard crop through Kisan Sarathi app

Performance indicators Observation to be recorded	➤ No. of Visual based send messages and Queries received ➤ Profile of Kisan sarathi app user ➤ Management practices of Paddy, Niger & Linseed, Mustard crops ➤ Knowledge & Adoption level of Kisan sarathi app user regarding Crop production ➤ Attitude of Kisan sarathi app users regarding Crop production ➤ Decision making ability of Kisan sarathi app users regarding Crop production ➤ Constraints of Kisan sarathi app messages regarding Crop production
Cost of input	1500/-
Total cost	Rs.6500/

Title of OFT	Assessment of Whatsapp messages used by water chestnut growers regarding disease and pest management of water chestnut crop (2nd Year)
Crop/Enterprise	Enterprise/water chestnut
Problem diagnosed	The major problems to the water chestnut growers is delayed and lack of audio visual based technical information delivery regarding disease and pest management.
Farming situation	Irrigated/Ponds
Thematic area	Water chestnut production through FPO and ICT theme
Farmers' practices	Non whatsapp user water chestnut growers
Objective	➤ To study the profile of water chestnut growers who use whatsapp messages ➤ To study the contents of shared whatsapp messages regarding disease and pest management of water chestnut crop ➤ To study the constraints faced by whatsapp user regarding disease and pest management of water chestnut crop
No. of farmers	60 Respondents

Area of each trial	-
No of trial	5 ponds
Critical input	Audio visual based technical information delivery regarding disease and pest management of water chestnut crop.

Information about Home Science OFT:

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of effect of supplementation of Moringa mix candy (Gutagut) for anemic adolescent girls
Year/Season:	Kharif 2024
Problem diagnosis:	Anemia among adolescent girls
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-	Poor dietary intake
T2 –Recommended Practice-	T2- Moringa powder intake through khichadi T3- Moringa mix Candy (Gutagut)- (Dry drumstick leaf powder 7g+Tamarind pulp 5g+Jaggery 15g + spices @ 30gm/day/head mean daily intake for three month
Source of technology:	PAU, Ludhiana, 2012
Characteristics of technology:	Dry drumstick leaf powder 7g+Tamarind pulp 5g+Jaggery 15g+spices
Name of Crop/Enterprises:	
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 Weaning Food Premixes for Infants Based on Ragi, Green Gram and Rice
Year/Season:	Kharif 2024
Problem diagnosis:	Malnutrition during weaning stage(6-10 month)
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-	Rice khichdi
T2 –Recommended Practice-	T2- Ready-to-eat food T3- Energy-rich complementary weaning food - (Rice: Green Gram: Finger millet in the ratio of 25: 37.5: 37.5) used to produce nutritious and high quality malt weaning food 2-3 spoons 2-3 hours difference (100gm) for three month
Source of technology:	Maharashtra Institute of Technology, Aurangabad 2022
Characteristics of technology:	Rice: Green Gram: Finger millet in the ratio of 25: 37.5: 37.5 used to produce nutritious and high quality malt weaning food 2-3 spoons 2-3 hours difference (100gm)
Name of Crop/Enterprises:	
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 malted sattu (Sprouted chickpea +Sprouted wheat) for malnourished Children
Year/Season:	Rabi 2024-25
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: Malted sattu(Sprouted chickpea-15 gm+ sprouted wheat-15 gm + Jaggery 10 gm @ 40 gm/day/child for 3 month (fulfilling 29% requirement of RDA)
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 Acceptability of value added products Kutki biscuits from Kutki millets
Year/Season:	Rabi 2024-25
Problem diagnosis:	Low income due to no value addition of Kutki millets
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 Kutki millets
T2 –Recommended Practice-	T2: Kutki biscuits -The formulation with incorporation of Kutki flour 20% in wheat flour T3: Kutki biscuits - The formulation with incorporation of Kutki flour30% in wheat flour

Source of technology:	TNAU 2012
Characteristics of technology:	
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 2024
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:	NTPF, 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:	<i>Kharif 2024</i>
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 2024
Problem diagnosis:	Low protein diet in women
Thematic area: (Focus area in DFI and nutri smart	Nutritional security

initiatives)	
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:	<i>Rabi</i> 2024-25
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 farmers/ demonstration	Parameters identified for performance evaluation
1	Wheat	Resource conservation Technology	Decomposition of crop residue through <i>Bacterial & Fungal base bio-waste decomposer @ 500 ml</i> for one tonne raw material	<i>Bacterial & Fungal base bio-waste decomposer</i>	Kharif 2024	-	10	Duration of decomposition (days), OC (%), Nutrient (NPK) content (%), nutrient cost of decomposed compost, Net Return (Rs/ha), B:C ratio
2	Rice, Linseed	Integrated Farming System	Rice (JR81) – Linseed (JLS 67) in <i>utera</i> and 25 layers poultry (Kadakhnath) in backyard	Seed, poultry (Kadakhnath)	2024	4	10	Yield (q/ha), Net income (Rs/ha/year), Egg/meat production, Net income (Rs/year), B:C ratio
3	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 2024-25	2	5	Nodules/plant, No. of pods/plant, No. of seeds/pod, Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio

4	Wheat	Integrated Nutrient Management	Application of FYM (6 t/ha) + biofertilizers (Azotobactor & PSB @ 5 kg/ha) + 75% NPK of 120:60:40 kg/ha + Zn @ 5 kg/ha in bi-fortified bread wheat DBW 303 (Released in 2021, Potential yield-97.4 q/ha, Av. Yield-81.2 q/ha); Use of Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP applied at 60+4 g ai/ha at 25-30 DAS	Seed, Biofertilizers	Rabi 2024-25	2	5	Plant height (cm), No. of tillers/ plant, protein content (%), Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
5	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 2024	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
6	Rice	Integrated Crop Management	Use of improved scented rice variety Improved Jeerashankar and application of Pretilachlor (6%)+Pyrazosulfuron ethyl (0.15%) GR @ 615 g/ha at 3 DAT	Seed, Weedicide	Kharif 2024	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
7	Rice	Integrated Crop Management	Use of improved scented rice variety Improved Jeerashankar and application of Pretilachlor (6%)+Pyrazosulfuron ethyl (0.15%) GR @ 615 g/ha at 3 DAT	Seed, Weedicide	Kharif 2024	4	10	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
8	Chickpea	Integrated Crop Management	Raised bed sowing of chickpea variety JG 24	Seed	Kharif 2024	4	10	Branches/plant (no.), Pods/plant (no.), Seed yield (q/ha), Net return (Rs/ha), B:C Ratio
9	Blackgram	Integrated Weed Management	Application of PoE herbicide Propaquizafop + Imazethapyr ME @ 125 g a.i./ha at at 22 DAS in summer blackgram	Weedicide	Kharif 2024	2	5	Weed population and biomass/m ² , WCE (%), No. of pods/plant, Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio

10	Rice	Integrated Crop Management	Sowing of Sesbania/sunhemp with rice and co-culture by weedicide (2, 4-D) at 25-28 days (Brown manuring reduces the weed population in the early stage due to its high growth rate, increases the soil organic carbon content, and saves the nitrogenous fertilizer up to 25%)	Sesbania/sunhemp seed, Weedicide	Kharif 2024	4	10	Plant height (cm), No. of tillers /hill, Weed density (No./m ²), No. of panicles / plant, Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
11	Wheat	Varietal Replacement	Bi-fortified wheat variety GW 451 (Timely sown, mean yield of 53.92 q/ha, bold grains, resistance to both brown and black rusts, better chapatti quality, Fe and Zn content: 36.4 ppm & 40.1 ppm)	Seed	Rabi 2024-25	4	10	Plant height (cm), No. of tillers/plant, Seed yield (q/ha), Net Return (Rs/ha), B:C Ratio
12	Ginger	Integrated Disease Management	Suprabha + Rhizome treatment during storage & pre sowing stage with Ridomil MZ- 68 WG @ 0.2% + Sowing on Ridge + Soil treatment with Trichoderma viridi (@ 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%, Trichoderma viridi @ 5 kg/ha	Kharif 2024	1	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
13	Onion	Integrated Pest Management	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-200 SL @ 625 ml/ha	Rabi 2024-25	2	10	Thrips infestation(%), Reduction in insect infestation(%), Bulb diameter(cm) and Yield (kg/ha), Net Return (Rs/ha), B:C Ratio, Feedback and Farmer's reaction
14	Chickpea	Integrated Pest Management	Bird perches @ 50/ ha + Two 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 earthen pot for 24 hours)	Tobacco leaf @ 5kg, Garlic @ 2.5 kg and Green Chilli @ 2.5 kg, plastic drum	Rabi 2024-25	4	10	Plant Height(cm), 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

15	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 2024-25	2	05	No. of siliqua/plant, yield q/ha, NR (Rs/ha), B:C Ratio
16	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 2024-25	2	05	No.of capsules /plant, yield q/ha, NR (Rs/ha), B:C Ratio
17	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 2024-25	2	05	No.of tillers /plant, yield q/ha, NR (Rs/ha), B:C Ratio
18	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 2024	1	5	Fruit weight (g), Fruit yield (q/ha) and NR (Rs/ha), B:C Ratio
19	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 2024	1	10	Fruit weight (g), Fruit yield (q/ha) and NR (Rs/ha), B:C Ratio
20	Marigold	Varietal evaluation	Marigold variety Pusa Bahar	Seed	Rabi 2024-25	0.5	10	Yield (q/ha) and NR (Rs/ha), B:C Ratio
21	Garlic	Varietal evaluation	Garlic variety G-282	Seed	Rabi 2024-25	1	5	Yield (q/ha) and NR (Rs/ha), B:C Ratio

22	Niger, Linseed & Mustard	Group Approach	Impact of Farmers Producer Organization (FPO) regarding commodity based income generation activities	Message contents about Niger, Linseed & Mustard production technology and Commodity based income generation activities through FPOs	Kharif & Rabi 2024	48	120	Increase production, Knowledge & Adoption level, Decision making ability Income generation, Constraints

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 2024	350
2	Farmers Training	40	Jan-Dec, 2024	800
3	Media coverage	25	Jan-Dec, 2024	mass
4	Training for extension functionaries	03	Jan-Dec, 2024	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	20	20	Vegetables seed Kit	Production kg/unit, Availability/capita, Nutrient Intake / capita, Anthro. measurements	Production kg/unit, Availability/capita, Nutrient Intake / capita, Anthro. measurements	
Performance of Automatic Green peas Shelling Machine for Peeling of Green peas	Green peas Shelling	10	10	Green peas for Automatic Green peas Shelling Machine operation	Yield kg/hr, Total mass of pea pods - Kg/hour, Mass of Shelled pea pods Kg/hour, Shelled cost qt/Rs, Efficiency increased %, Labor Required qt / day ,Damage %	Shelling Yield kg/hr, Mass of pea pods - Kg/hour, mass of Shelled pea pods Kg/hour, Shelled cost qt/Rs, Efficiency increased %, Labor Required qt / day ,Damage %	
Performance of Income	Kutki	Rabi 2024	10	Processed Kutki Millets	Yield kg/hr, Efficiency	Selling of Un processed Kutki	Processed

generation of processed <i>Kutki</i> Millets					increased %, Labor Required qt / day ,Damage % B:C ratio, polishing of <i>Kutki</i> Processing of high quality and recovery of 40-45 % and packaging	(Raw)	Kutki Millets
Demonstration on processing of Turmeric powder at domestic level	Turmeric	10	10	Turmeric Rizhome var. Surome	Yield (powder yield) kg/qt, Quality analysis (color & appearance) B:C ratio	Yield (powder yield) kg/qt, Quality analysis (color & appearance) B:C ratio	
Wheat variety WB-02	wheat variety WB-02	10	10	wheat variety WB-02	Anthropometric measurements , BMI	wheat variety WB-02	Lok 1
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
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 (2024-25)

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 2024	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 2024	10	25	No. of branches/plant No. of pods/plant
3.	Chickpea	Crop Production	Cluster demonstration on Chickpea (full package)	Seed	Rabi 2024-25	20	50	No. of seeds per pod, No. of pods/plant Seed yield per plant
4.	Field Pea	Crop Production	Cluster demonstration on Field pea (full package)	Seed	Rabi 2024-25	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 2024	20	50	Seed Yield/plant
8.	Mustard	Crop Production	Cluster demonstration on Mustard (full package)	Seed	Rabi 2024-25	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 2024-25	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 2024	300
2	Farmers Training	32	Jan-Dec 2024	640
3	Media coverage	20	Jan-Dec 2024	Mass
4	Training for extension functionaries	18	Jan-Dec 2024	360

Training (Including the sponsored and FLD training programmes):
A) ON Campus

Thematic Area	No. of Course s	Duratio n (Days)	No. of Participants						
			Others			SC/ST			Gran d Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	02	02	-	-	-	-	-	-	40
Resource Conservation Technologies	02	02	-	-	-	-	-	-	40
Integrated Farming									
Water management									
Seed production	06	06	-		-	-	-	-	120
Integrated Crop Management	02	02	-		-	-	-	-	40
Total	12	12	-		-	-	-	-	240
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
Production and Management technology	02	02	-	-	-	-	-	-	40
Others	01	01	-	-	-	-	-	-	20
Total	03	03							60
b) Fruits									
Management of young plants/orchards	02	02	-	-	-	-	-	-	40
Total	02	02							40
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices	01	01	-	-	-	-	-	-	20

Production and Management technology								
Total	01	01						20
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	03	03	-	-	-	-	-	60
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	2	2	-	-	-	-	-	40

Design and development of low/minimum cost diet	0	0	-	-	-	-	-	0
Designing and development for high nutrient efficiency diet	2	2	-	-	-	-	-	40
Minimization of nutrient loss in processing	2	2	-	-	-	-	-	40
Gender mainstreaming through SHGs	2	2	-	-	-	-	-	40
Value addition	3	3	-	-	-	-	-	60
Income generation activities for empowerment of rural Women	2	2	-	-	-	-	-	40
Location specific drudgery reduction technologies	0	0	-	-	-	-	-	0
Women and child care	0	0	-	-	-	-	-	0
Total	13	13						260
VI Agril. Engineering								
Total								
VII Plant Protection								
Integrated Pest Management	03	03						60
Integrated Disease Management	02	02						40
Bio-control of pests and diseases	01	01						20
Production of bio control agents and bio pesticides								
Total	06	06						120
VIII Fisheries								
Integrated fish farming								
Total								
IX Production of Inputs at site								
Vermi-compost production								
Organic manures production								

[illegible]

[illegible]

B) OFF Campus

[illegible]

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	02	02							40
Designing and development for high nutrient efficiency diet	03	03							60
Minimization of nutrient loss in processing	0	0							0
Gender mainstreaming through SHGs	01	01							20
Storage loss minimization techniques	01	01							20
Value addition	04	04							80
Income generation activities for empowerment of rural Women	02	02							40
Location specific drudgery reduction technologies	01	01							20
Rural Crafts	0	00							0
Women and child care	02	02							40
Total	17	17							340
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	01	01							20
Integrated Disease Management	02	02							40

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	2	-	-	-	-	-	-	40
August	F & FW	SRI technology of paddy	2	-	-	-	-	-	-	40
Nov	F & FW	Pigeon pea production technology	1	-	-	-	-	-	-	20
June	F & FW	Hybrid Maize 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 okra	1	-	-	-	-	-	-	20
February	F & FW	Importance of drip irrigation in	1	-	-	-	-	-	-	20

		horticultural crops								
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										
January	F&FW	Formation of women SHGs & its Management	01	-	-	-	-	-	-	20
February	F&FW	Method Of decortications of water Chesnut	01	-	-	-	-	-	-	20
February	F&FW	value addition & processing of green Pea	01	-	-	-	-	-	-	20
February	F&FW	Importance of Nutritive value of miner Millets	01	-	-	-	-	-	-	20
March	F&FW	Importance of pulses in daily diet & easy way to use them	01	-	-	-	-	-	-	20
June	F&FW	Formation of women SHGs & its Management	01	-	-	-	-	-	-	20
September	F&FW	Preparation of malt food for Children	01	-	-	-	-	-	-	20
June	F&FW	Nutritional and health benefits of nutritional kitchen gardening	01	-	-	-	-	-	-	20
July	F&FW	Preparation and benefits of Malted food as supplementary growing children.	01	-	-	-	-	-	-	20
February	F&FW	Importance of millets, Its uses in daily diet by different methods.	1	-	-	-	-	-	-	20
March	F&FW	Nutritional benefits and processing of millets.	1	-	-	-	-	-	-	20
Aug	F&FW	Protein, minerals, fiber rich food by incorporation of millets	01	-	-	-	-	-	-	20
Sept	F&FW	Preparation of Iron rich food for adolescent girls	01	-	-	-	-	-	-	20

		and pregnant women.								
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan	F&FW	Income generation of FPO members through Processing and packaging pea	01	-	-	-	-	-	-	20
March	F&FW	Income generation of FPO members through Processing and packaging miner millets	01	-	-	-	-	-	-	20
June	F&FW	To create awareness about Kisan Sarathi apps regarding Knowledge and Adoption of oilseed crops	01	-	-	-	-	-	-	20
Soil Science										
June	F&FW	INM in kharif crops	02							40
October	F&FW	INM in rabi crops	01							20
December	F&FW	Micronutrient deficiency symptoms in rabi crops and its integrated management	01	-	-	-	-	-	-	20
November	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										
July	F&FW	Weed management in kharif crops	02							40
November	F&FW	Weed management in rabi crops	02							40
May	F&FW	Improvement in cropping pattern for better production	02							40
September	F&FW	Improvement in cropping pattern for better production	01							20
August	F&FW	ICM in kharif crops	01							20
December	F&FW	ICM in rabi crops	02							40
November	F&FW	Quality Seed Production In Cereals- Wheat	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	
		And Perl Millets								
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
Soil Health and Fertility Management										
May, June	F&FW	Role of Organic carbon in soil health and fertility	03							60
October	F&FW	Crop residue management for better soil health and fertility	02							40
May, June	F&FW	INM in kharif crops	03							60
October, November	F&FW	INM in rabi crops	03							60
August	F&FW	Micronutrient deficiency and its management in kharif crops	01							20
April	F&FW	Importance of soil testing	01							20
Livestock production										
Home Science										
May	F&FW	Value addition and processing 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	
		turmeric as powder								
Oct.	F&FW	Formation of women SHgs & its Management	01	-	-	-	-	-	-	20
May	F&FW	Value addition and processing of Kutki millets	01	-	-	-	-	-	-	20
April &July	F&FW	Nutritional benefits of drumstick powder during anemia	02	-	-	-	-	-	-	40
August	F&FW	Nutritional and health benefits of nutritional kitchen gardening	01	-	-	-	-	-	-	20
October	F&FW	Preparation and value addition of green pea for income generation	01	-	-	-	-	-	-	20
December	F&FW	Methods of machine peeling Green pea pods	01	-	-	-	-	-	-	20
January	F&FW	Input Management of Nutritional Terrace gardening in Small backyard	01	-	-	-	-	-	-	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	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	
		nutritional security the farm women.								
November	F&FW	Ensuring food and nutrutiunal security among communities through women collective..	1	-	-	-	-	-	-	20
December	F&FW	Nutritional security through bio fortifies crops	1	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan	F&FW	Awareness of farmers about use of various agricultural based mobile apps	1	-	-	-	-	-	-	20
Feb	F&FW	Awareness about commodity based Income generation activities regarding oilseed crops	1	-	-	-	-	-	-	20
April	F&FW	Entrepreneurship development through custom hiring centres	1	-	-	-	-	-	-	20
May	F&FW	To create awareness about smooth functioning of FPOs	1	-	-	-	-	-	-	20
May	F&FW	How to change the attitude of farmers regarding use of soil health card recommendations	1	-	-	-	-	-	-	20
June	F&FW	Information delivery through whatsapp messages regarding water chestnut growers	1	-	-	-	-	-	-	20
July	F&FW	Create awareness about Management of FPOs	1	-	-	-	-	-	-	20
Aug	F&FW	Entrepreneurship development of FPO members of water chestnut growers	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	
Sep	F&FW	Entrepreneurship development of farmers regarding horticultural crops	1	-	-	-	-	-	-	20
Oct	F&FW	Leadership development of Pea grower FPO members	1	-	-	-	-	-	-	20
Nov	F&FW	Create awareness about Formation and Management of SHGs	1	-	-	-	-	-	-	20
Dec	F&FW	Create awareness about Production and processing of Oilseed crop for income and employment generation	1	-	-	-	-	-	-	20
Dec	F&FW	To create awareness about Kisan Sararathi apps regarding Knowledge and Adoption of cereal crops	1	-	-	-	-	-	-	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 Improvement										
October	F&FW	Quality Seed Production in Rabi Pulses	10	-	-	-	-	-	-	20
Horticulture										
July	F & FW	Nursery management in horticultural crops	10	-	-	-	-	-	-	20
Home Science										
Oct	01	Processing and Value addition in Minor Millets	10	-	-	-	-	-	-	20
Aug	01	Income generation activities for farm women through SHGs.	10	-	-	-	-	-	-	20

[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	Extension Functionaries	Production Technology of direct seeding rice cultivation	01	-	-	-	-	-	-	20
October	Extension Functionaries	Production Technology of Rabi pulses	01	-	-	-	-	-	-	20
Crop Improvement										
August	Extension Functionaries	Seed Act and Rules	01	-	-	-	-	-	-	20
Horticulture										
July	Extension Functionarie s	Production technology of fruit crops	01	-	-	-	-	-	-	20
Livestock production										
Home Science										
July	AWW	Nutritional support during anemia in pregnancy	01							20
August	AWW	Role of diet to overcome the nutrient deficiencies in adolescent girls	01							20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Sept	Extension Functionarie s	How to use of ICT tools of Kisan sarthi apps regarding crop production and management	01	-	-	-	-	-	-	20
Oct	Extension Functionarie s	Capacity Building of FPO members for income and	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	
		employment generation through crop production								
Soil Science										
July and January	Extension Functionaries	In-service Training on Production Technology of Zaid & Kharif crop	01	-	-	-	-	-	-	20
August	Extension Functionaries	Production of kharif pulses, IPM and IDM	01	-	-	-	-	-	-	20
November	Extension Functionaries	Resource management for better crop production and soil health	01	-	-	-	-	-	-	20
November	Extension Functionaries	INM in rabi crops	01	-	-	-	-	-	-	20

iii) Sponsored Training Programmes

S. N O.	Title	Themat ic 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/ ST	Oth er	SC/ ST	Oth er	SC/ ST	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	Value addition	01	F&FW	01	-	-	-	-	-	-	-	20

	kutki millets												

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	4									
Kisan Mela	-									
Kisan Ghosthi	15									
Exhibition	8									
Film Show	10									
Method Demonstrations	6									
Farmers Seminar	6									
Workshop	2									
Group meetings	30									
Lectures delivered as resource persons	80									
Newspaper coverage	6									
Radio talks	4									
TV talks	8									
Popular articles	1									
Extension Literature	-									
Advisory Services	30									
Scientific visit to farmers field	1									
Farmers visit to KVK	4									
Diagnostic visits	2									
Exposure visits	30									
Ex-trainees Sammelan	2									
Soil health Camp	2									
Animal Health Camp	2									
Agri mobile clinic	1									
Soil test campaigns	8									
Farm Science Club Conveners meet	15									
Self Help Group Conveners meetings	5									
Mahila Mandals Conveners meetings	45									
Celebration of important days (specify)	10									
Others (pl. specify)	300									
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	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	<i>Rhizobium</i>			
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
June	January to June 2024	250
Dec	July to December 2024	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	Nov-April	CFLD Pulses Rabi	100/40ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
CFLD Pulses summer	February-April	CFLD Pulses summer	75/30 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
CFLD Pulses Kharif	June-September	CFLD Pulses Kharif	50/20 ha / Kundam, Shahpura, Patan, Sihora, Jabalpur
CFLD Oilseed Rabi	Nov-March	CFLD Oilseed Rabi	50/20ha/ Kundam, Sihora, Jabalpur
CFLD Oilseed Kharif	June-October	CFLD Oilseed Kharif	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	100/ 50 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
February	CFLD Pulses summer	75/ 30 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
June	CFLD Pulses Kharif	100/ 50 ha/ Kundam, Shahpura, Patan, Sihora, Jabalpur
Oct	CFLD Oilseed Rabi	100/ 40 ha/ Kundam, Sihora, Jabalpur
June	CFLD Oilseed Kharif	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/ bolck 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	Kharif 2024	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	50 Sq m

			high yield, short duration, and desirable long slender grain type	
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 2024-25	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 losses of grain.	50 Sq m
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 Aloevera, 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	-	-

KVK KATNI

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2023)

[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	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 2024
2	December 2024

2. DETAILS OF DISTRICT

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

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	Rice Wheat Cropping system	Rice- Wheat, Rice- Chickpea, Linseed

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 2022				
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 2022-23				
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, 2023- Dec., 2023)

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 (2023)

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			
6	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
20	190	15	182

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
96	144	71	2885

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	Titl e of FLD if any	Title of Traini ng if any	Title of trainin g for extensi on person nel if any	Exten sion activi ties	Suppl y of seeds, planti ng materi als etc.
1	Seed replacem ent through introduct ion of improved variety	Rice/ JR 206	Continues use of same variety IR 64, Low Yield	Assessment of Improved variety of rice JR 206		Improv ed Produc tion Techno logy	Improv ed Product ion Techno logy	Field day, Group Meeti ng	Seed
2	Seed replacem ent through introduct ion of improved variety & IYoM	Kodo/ JK 137	Continues use of same variety, Low Yield	Assessment of Improved variety of Kodo JK 137		Improv ed Produc tion Techno logy	Improv ed Product ion Techno logy	Field day, Group Meeti ng	Seed
3	Seed replacem ent through introduct ion of improved variety	Wheat / GW 451	Low yield due to sowing of unsuitable variety	Assessment of Improved biofortified wheat variety GW 451		Improv ed Produc tion Techno logy	Improv ed Product ion Techno logy	Field day, Group Meeti ng	Seed
4	Seed replacem ent through introduct ion of improved variety	Chickpea/ JG 24	Low yield due to sowing of unsuitable variety	Assessment of Improved variety of chickpea JG 24		Improv ed Produc tion Techno logy	Improv ed Product ion Techno logy	Field day, Group Meeti ng	Seed
5	Seed replacem ent through introduct ion of improved variety	rice / PJRH 66	Low yield due to sowing of unsuitable variety	Assessmen t of Improved rice hybrid PJRH 66		Improv ed Produc tion Techno logy	Improv ed rice hybrid PJRH 66	Field day, Group Meeti ng	Seed
6	Farm Mechaniz ation	raised bed planter in maize crop	Low yield of maize	Assessment of raised bed planter in maize crop		Improv ed Produc tion Techno logy	Improv ed Product ion Techno logy	Field day, Group Meeti ng	raised bed plante r
7	Farm Mechaniz ation	raised bed planter in pigeon pea	Low yield of pigeon pea	Assessment of Tractor Drawn Bed		Improv ed Produc	Improv ed Product	Field day, Group	raised bed plante

S. No .	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Titl e of FLD if any	Title of Traini ng if any	Title of trainin g for extensi on person nel if any	Exten sion activi ties	Suppl y of seeds, planti ng materi als etc.
		crop		Planter In pigeon pea		tion Techno logy	ion Techno logy	Meeti ng	r in
8	Farm Mechaniz ation	zero till seed cum fertilizer drill for line sowing of mustard	Delay in sowing due to unavailabi lity of optimum field condition for preparatio n	Assessment of zero till seed cum fertilizer drill for line sowing of mustard		Improv ed Produc tion Techno logy	Improv ed Product ion Techno logy	Field day, Group Meeti ng	zero till seed cum fertiliz er drill
9	Farm Mechaniz ation	raised bed planter for sowing of chickpea	Low yield of chickpea due to poor plant population , heavy wilt incidence in compact soil and poor nitrogen fixation	Assessment of raised bed planter for sowing of chickpea		Improv ed Produc tion Techno logy	Improv ed Product ion Techno logy	Field day, Group Meeti ng	raised bed plante r for
10	Integrate d livestock manage ment	Turmeric powder supplement ation with <i>Saccharomy ces cerevisiae</i>	Poor growth in goat kids	Assessment of Turmeric powder supplement ation with <i>Saccharomy ces cerevisiae</i> on growth performance in weaned kid		Feed manag ement	Feed manage ment	Group Meeti ng	Fodder seed, Turme ric powde r and <i>Saccha romyce s cerevis iae</i>
11	Integrate d livestock manage ment	Buffalo supplement ed with bypass fatty acids and <i>Tinospora cordifolia</i>	Low production	Assessment of performance of buffalo supplemente d with bypass fatty acids and <i>Tinospora</i>		Feed manag ement	Feed manage ment	Group Meeti ng	By pass fatty acids and <i>Tinosp ora cordifo lia</i>

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.
				<i>cordifolia</i>					
12	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
13	Integrated livestock management	Camphor and paste of roasted brinjal in pure ghee for treatment of FMD in cattle	FMD	Assessment of camphor and paste of roasted brinjal in pure ghee for treatment of FMD in cattle		Disease Management	-	Group Meeting	Camphor, Coconut oil, brinjal and pure ghee
14	TOT and Impact	Adoption Dynamics	Use of old variety due to several social, physiological and technical reasons	Assessment of Adoption dynamics and impact of pigeon pea variety Rajeevlochan		Improved Production Technology	Improved Production Technology	Group Meeting	-
15	Marketing linkage	Assessment of channel holder	Problems faced by farmers at different levels of mandi	Assessment of channel loss in different levels of Mandi in Katni district		-	-	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		Awareness on nutritional security	Awareness on nutritional security	Group Meeting	Seed

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.
				malnutrition status of the farm family					
18	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
19	Women in Agriculture	post harvest handling of seed especially pulse crop	Quality of seed deteriorate during the handling and storage	Assessment of post harvest handling of seed especially pulse crop		Improved Production Technology	Improved Production Technology	Group Meeting	
20	Income Generation	nursery management through pro tr	Low income of farmwomen due to high mortality of vegetable seedlings	Assessment of nursery management through pro tray for income generation		Improved Production Technology	Improved Production Technology	Group Meeting	

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	
Varietal Assessment	04	-	01	-	-	-	-	-	
Farm Mechanization	04								
IFS	-	-	-	-	01	-	-	-	
Natural Farming	01	-	-	-	-	-	-	-	
Nutritional Security	02	-	-	-	-	-	-	-	
TOTAL	11	01	03	-	01	-	-	-	

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	02	-	-	01	-	-	-	02
TOTAL	04	-	-	02	-	-	-	05

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Rice/ JR 206	
Title of on farm trial	Assessment of Improved variety of rice JR 206	
Problem diagnosed	Continues use of same variety IR 64, Low Yield	
Farmers' Practices	IR 64 (mixed seed)	
Details of technologies selected for assessment	T ₁	IR 64 (mixed seed)
	T ₂	Improved variety JR 206
	T ₃	-
Source of technology	JNKVV, 2019	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Approx Rs. 38600/-	
Critical input	Seed	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of tillers/ plant, Spikelet fertility (%), plant height (cm), Yield (q/ha), Net return, BC ratio	

Name of Discipline :-	Plant Breeding
Title of on-farm trial:	Assessment of Improved variety of rice JR 206.
Year/Season:	Kharif/2024
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	

OFT-2

Crop / Enterprise	Kodo/ JK 137	
Title of on farm trial	Assessment of Improved variety of Kodo JK 137	
Problem diagnosed	Continues use of same variety, Low Yield	
Farmers' Practices	Unidentified variety	
Details of technologies selected for assessment	T ₁	Unidentified variety
	T ₂	Improved variety JK 137
	T ₃	-
Source of technology	JNKVV, 2015	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Approx Rs. 23800/-	
Critical input	Seed	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Tillers/ plant, Plant Height (cm), Net return (Rs/ha), BC ratio	

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Improved variety of Kodo JK 137
Year/Season:	Kharif/2024
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	

OFT-3

Crop / Enterprise	Wheat/ GW 451	
Title of on farm trial	Assessment of Improved biofortified wheat variety GW 451	
Problem diagnosed	Low yield due to sowing of unsuitable variety	
Farmers' Practices	Unidentified variety	
Details of technologies selected for assessment	T ₁	Lok 1 (mixed seed)
	T ₂	Improved variety GW 451
	T ₃	-
Source of technology	JNKVV, 2015	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Approx Rs. 39200/-	
Critical input	Seed	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Tillers/ plant, Plant Height (cm), Net return (Rs/ha), BC ratio	

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Improved biofortified wheat variety GW 451
Year/Season:	Rabi 2024
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 Protein (11.8%), iron (36.4 ppm) and zinc (40.1 ppm), early maturing, Resistant to black and brown rust, Yield 50-55 q/ha
Name of Crop/Enterprises:	Wheat / GW 451
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Crop / Enterprise	Chickpea/ JG 24	
Title of on farm trial	Assessment of Improved variety of chickpea JG 24	
Problem diagnosed	Low yield due to sowing of unsuitable variety	
Farmers' Practices	JG 315 mixed seed	
Details of technologies selected for assessment	T ₁	JG 315 mixed seed
	T ₂	Improved variety JG 24
	T ₃	-
Source of technology	JNKVV, 2020	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Approx Rs. 37500/-	
Critical input	Seed	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of pods/ plant, Yield (q/ha), Net return, BC ratio	

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Improved variety of chickpea JG 24
Year/Season:	Rabi 2024
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	

OFT-5

Crop / Enterprise	Rice/ PJRH 66	
Title of on farm trial	Assessment of Improved rice hybrid PJRH 66	
Problem diagnosed	Continues use of same variety IR 64, Low Yield	
Farmers' Practices	IR 64 (mixed seed)	
Details of technologies selected for assessment	T ₁	IR 64 (mixed seed)
	T ₂	Rice Hybrid PJRH 66
	T ₃	-
Source of technology	JNKVV, 2023	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Approx Rs. 12000/-	
Critical input	Seed	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	No. of tillers/ plant, Spikelet fertility (%), plant height (cm), Yield (q/ha), Net return, BC ratio	

Name of Discipline :-	Plant Breeding
Title of on-farm trial:	Assessment of Improved rice hybrid PJRH 66
Year/Season:	Kharif/2024
Farming situation:	Irrigated
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-	PJRH 66
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2023
Characteristics of technology:	Average yield 65-70 q/ha, maturity 100-105 days, Scented extra long slender grain
Name of Crop/Enterprises:	Rice / PJRH 66
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 6

Crop / Enterprise	Raised bed planter	
Title of on farm trial	Assessment of raised bed planter in maize crop	
Problem diagnosed	Water logging in maize field	
Farmers' Practices	Sowing by ordinary seed drill	
Details of technologies selected for assessment	T1	Sowing by ordinary seed drill
	T2	Sowing by raised bed planter (Raised bed planter maintain the proper drainage and plant population)
	T3	-
Source of technology	JNKVV, 2002	
No. of farmers	05	
Area of trial	0.4 ha	
No of trial	05	
Total cost	Approx Rs. 38950/-	
Critical input	Raised Bed Planter	
Performance indicators:	Field capacity (ha/hr), Field efficiency (%), Yield (q/ha), BC ratio	

Name of Discipline	AEG
Title of on-farm trial:	05
Year/Season:	Kharif 2024
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 (Raised bed planter maintain the proper drainage and plant population)
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:	Raised bed planter
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT 7

Crop / Enterprise	Tractor Drawn Bed Planter	
Title of on farm trial	Assessment of Tractor Drawn Bed Planter In pigeon pea	
Problem diagnosed	Low yield due to inadequate water management	
Farmers' Practices	Sowing by ordinary seed drill	
Details of technologies selected for assessment	T1	Flat bed sowing of pigeonpea
	T2	Sowing through bed planter maintain proper drainage
	T3	-
Source of technology	JNKVV, 2008	
No. of farmers	05	
Area of trial	0.4 ha	
No of trial	05	
Total cost	Approx Rs. 33000/-	
Critical input	Tractor Drawn Bed Planter	
Performance indicators:	Field capacity (ha/hr), Field efficiency (%), Yield (q/ha), BC ratio	

Name of Discipline	AEG
Title of on-farm trial:	05
Year/Season:	Kharif 2024
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 maintain proper drainage
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:	Tractor Drawn Bed Planter
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT 8

Crop / Enterprise	Zero till seed cum fertilizer drill	
Title of on farm trial	Assessment of zero till seed cum fertilizer drill for line sowing of mustard	
Problem diagnosed	Delay in sowing due to unavailability of optimum field condition for preparation	
Farmers' Practices	Use TD seed cum fertilizer drill after land preparation	
Details of technologies selected for assessment	T1	Use TD seed cum fertilizer drill after land preparation
	T2	Sowing by zero till seed cum fertilizer drill reduce the time & Cost
	T3	-
Source of technology	JNKVV,2008	
No. of farmers	05	
Area of trial	0.4 ha	
No of trial	05	
Total cost	Approx Rs. 30800/-	
Critical input	Zero Till Seed Cum Fertilizer Drill	
Performance indicators:	Energy (MI/ha), Field Capacity (ha/hr), Field efficiency (%), Yield (q/ha), BC ratio	

Name of Discipline	AEG
Title of on-farm trial:	05
Year/Season:	Rabi 2024
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 reduce the time & Cost
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:	Zero Till Seed Cum Fertilizer Drill
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT 9

Crop / Enterprise	Raised bed planter	
Title of on farm trial	Assessment of raised bed planter for sowing of chickpea	
Problem diagnosed	Low yield of chickpea due to poor plant population, heavy wilt incidence in compact soil and poor nitrogen fixation	
Farmers' Practices	Sowing by ordinary seed drill	
Details of technologies selected for assessment	T1	Sowing by ordinary seed drill
	T2	Sowing by raised bed planter maintain plant population, water economy and reduces wilt incidence
	T3	-
Source of technology	ICRISAT & CIAE, 2010	
No. of farmers	05	
Area of trial	0.4 ha	
No of trial	05	
Total cost	Approx Rs. 32560/- Rs. 38950/-	
Critical input	Raised Bed Planter	
Performance indicators:	Energy (MI/ha), Field Capacity (ha/hr), Field efficiency (%), Yield (q/ha), BC ratio	

Name of Discipline	AEG
Title of on-farm trial:	05
Year/Season:	Rabi 2024
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 ordinary seed drill
T2 –Recommended Practice-	Sowing by raised bed planter maintain plant population, water economy and reduces wilt incidence
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:	Raised bed planter
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT 10

1	Enterprise	Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i>
2	Title of on-farm trial	Assessment of Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i> on growth performance in weaned kid
3	Problem diagnosed	Poor growth in goat kids
4	Farming situation	Free Range
5	Production system and thematic area	LPM
6	Farmers' practices	No practice of Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i> in goat
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : No practice of Turmeric powder supplementation with <i>Saccharomyces cerevisiae</i> in goat T ₂ : Feeding concentrate mixture with Turmeric powder @ 1.5% + 0.5 gm <i>Saccharomyces cerevisiae</i> per day for 90 days
8	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
9	No. of animals	05
10	No. of farmers	05
11	Critical input	Fodder seed, Turmeric powder and <i>Saccharomyces cerevisiae</i>
12	Cost of input	Approx Rs. 2500/-
13	Total cost	Approx Rs 10000/-
14	Performance indicators Observation to be recorded	Body weight, Health, B:C ratio

Name of Discipline	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:	2024-25
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 cerevisiae</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	

OFT 11

1	Enterprise	Buffalo supplemented with bypass fatty acids and <i>Tinospora cordifolia</i>
2	Title of on-farm trial	Assessment of performance of buffalo supplemented with bypass fatty acids and <i>Tinospora cordifolia</i>
3	Problem diagnosed	Low production
4	Farming situation	Stall fed
5	Production system and thematic area	LPM
6	Farmers' practices	No use of bypass fatty acids with <i>Tinospora cordifolia</i>
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : No use of bypass fatty acids with <i>Tinospora cordifolia</i> T ₂ : Supplementation of bypass fatty acids @ 150 gm and 150 gm <i>Tinospora cordifolia</i> per day for 90 days
8	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
9	No. of animals	05
10	No. of farmers	05
11	Critical input	By pass fatty acids and <i>Tinospora cordifolia</i>
12	Cost of input	Approx Rs. 10000 + 5000/-
13	Total cost	Approx Rs 25000/-
14	Performance indicators Observation to be recorded	Milk yield, Milk fat, Health , Estrous cycle and B:C ratio

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of performance of buffalo supplemented with bypass fatty acids and <i>Tinospora cordifolia</i>
Year/Season:	2024-25
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	

OFT 12

1	Enterprise	Supplementation of concentrate containing 18% Crude Protein @ 2 kg per day for 10 week before and after calving
2	Title of on-farm trial	Assessment of prepartum protein supplementation on performance of non descript cow
3	Problem diagnosed	Low milk production
4	Farming situation	Semi Stall fed
5	Production system and thematic area	LPM
6	Farmers' practices	No supplementation of protein to pregnant cow
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : No supplementation of protein to pregnant cow T ₂ : Supplementation of concentrate containing 18% Crude Protein @ 2 kg per day for 10 week before and after calving
8	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
9	No. of animals	05
10	No. of farmers	05
11	Critical input	Concentrate mixture containing 18% CP
12	Cost of input	Approx Rs. 25000/-
13	Total cost	Approx Rs 30000/-
14	Performance indicators Observation to be recorded	Colostrum yield, Milk yield, Postpartum heat and B:C ratio

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of prepartum protein supplementation on performance of non descript cow
Year/Season:	2024-25
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	-

OFT 13

1	Enterprise	Use of camphor in coconut oil and paste of roasted brinjal in pure ghee for treatment of FMD in cattle
2	Title of on-farm trial	Assessment of camphor and paste of roasted brinjal in pure ghee for treatment of FMD in cattle.
3	Problem diagnosed	Food and mouth disease in cattle.
4	Farming situation	Semi Stall fed
5	Production system and thematic area	LPM
6	Farmers' practices	Animal treted with allopathy medicine.
7	Details of technologies selected for assessment/refinement Treatments	T1 : Animal treted with allopathy medicine. T2 : Hoove treated with two pieces of camphor in 10 ml coconut oil mixs together are applied to the wounds of hoove and paste of roasted brinjal in pure ghee is applied on the tounge and mouth lisons.
8	Source of technology	Mishra et al. Traditional Knowledge in Agriculture (2020) pg 26-27
9	No. of animals	5
10	No. of farmers	5
11	Critical input	Camphor, Coconut oil, brinjal and pure ghee
12	Cost of input	Approx Rs 1000/-
13	Total cost	Approx Rs 1500/-

14	Performance indicators Observation to be recorded	Days in wound healing, B:C ratio

Name of Discipline (	Animal
Title of on-farm trial:	Assessment of camphor and paste of roasted brinjal in pure ghee for treatment of FMD in cattle.
Year/Season:	2024-25
Farming situation:	Semi Stall fed
Problem diagnosis:	Food and mouth disease in cattle.
Thematic area:	LPM
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-	Animal treated with allopathy medicine
T2 –Recommended Practice-	Hoofe treated with two pieces of camphor in 10 ml coconut oil mixs together are applied to the wounds of hoofe and paste of roasted brinjal in pure ghee is applied on the tounge and mouth lisons.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Mishra et al. Traditional Knowledge in Agriculture (2020) pg 26-27
Characteristics of technology:	
Name of Crop/Enterprises:	camphor and paste of roasted brinjal in pure ghee for treatment of FMD in cattle.
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT 14

Title	Assessment of adoption dynamics and impact of pigeonpea variety Rahjeevlochan
Season & Year	Kharif 2024
Problem identified	Farmers are still using old variety/ technology due to several social, physiological and technical reasons
Thematic Area	TOT & Impact
Farming situation	Irrigated & Rainfed
Name of Technology Intervention under study	Adoption dynamics
Farmers Practice	Use of old variety of chickpea
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Difference from MSP/ quintal (cereals) Difference from MSP/ quintal (Pulses) Cost involved after harvesting/ qtl Share to intermediate levels Mode. Transparency and earliness in payment Types of loss occurred in particular channel (%) Other problems and constraints	

OFT 15

Title	Assessment of channel loss in different levels of Mandi in Katni District
Season & Year	2024
Problem identified	Problems faced by farmers at different levels of Mandi
Thematic Area	Marketing linkage
Farming situation	-
Name of Technology Intervention under study	Assessment of channel loss
Farmers Practice	Individual efforts for marketing at village, block and district mandi
No. of replication (Farmers)	02

Results / findings

Performance indicators/ parameters	Unit/ details
Difference from MSP/ quintal (cereals) Difference from MSP/ quintal (Pulses) Cost involved after harvesting/ qtl Share to intermediate levels Mode. Transparency and earliness in payment Types of loss occurred in particular channel (%) Other problems and constraints	

OFT-16

Crop / Enterprise	Ginger cultivation under shade of Mango Orchard	
Title of on farm trial	Assessment of Improved variety of chickpea JG 24	
Problem diagnosed	Low yield due to sowing of unsuitable variety	
Farmers' Practices	JG 315 mixed seed	
Details of technologies selected for assessment	T ₁	JG 315 mixed seed
	T ₂	Improved variety JG 24
	T ₃	-
Source of technology	JNKVV, 2020	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Approx Rs. 37500/-	
Critical input	Seed	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	No. of pods/ plant, Yield (q/ha), Net return, BC ratio	

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 2024
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	-

OFT-17

Title of on-farm trial:	Assessment of suitability of Biofortified rice variety CR Dhan 310 to improve the malnutrition status of the farm family
Year/Season:	Kharif 2024
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 Biofortified Variety
T2 –Recommended Practice-	Biofortified rice variety CR Dhan 310
Source of technology:	ICAR-National Rice Research Institute, Cuttack, 2019
Characteristics of technology:	First high protein rice variety (10.3%), Moderate level of zinc and Intermediate amylose
Name of Crop/Enterprises:	Biofortified rice variety CR Dhan 310
Farming situation:	Rainfed
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 18

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 2024
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	-

OFT-19

Title of on-farm trial:	Assessment of post harvest handling of seed especially pulse crop
Year/Season:	Kharif 2024
Problem diagnosis:	Quality of seed deteriorate during the handling and storage especially pulse crop seeds as it passes the rainy seasons
Thematic area: (Focus area in DFI and nutri smart initiatives)	Women in 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-	Use of improper threshers, delayed harvesting, and improper storage practices
T2 –Recommended Practice-	Standardized and machines refined and proper storage infrastructure
T3 –Recommended Practice-	-
Source of technology:	JNKVV 2016
Characteristics of technology:	Standardized and machines refined and proper storage infrastructure
Name of Crop/Enterprises:	post harvest handling of seed
Farming situation:	Normal
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT 20

Title of on-farm trial:	Assessment of nursery management through pro tray for income generation
Year/Season:	Rabi 2023
Problem diagnosis:	Low income of farmwomen due to high mortality of vegetable seedlings
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-	None
T2 –Recommended Practice-	Nursery management through pro tray for income generation
Source of technology:	JNKVV 2015
Characteristics of technology:	pro tray for higher income generation
Name of Crop/Enterprises:	
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	Rice/ JR 81	Varietal assessment	Demonstration of Improved variety of rice JR 81	Seed Variety JR 81	Kharif 2024	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 2024	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/ JG 36	Varietal assessment	Demonstration of Improved variety of Chickpea RVG 203	Seed Variety JG 36	Rabi 2024	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 2024	4.0 ha	10	No. of pods/ plant, Yield (q/ha), Net return, BC ratio
14	Value Added Corn	Value Addition	Demonstration on value added corn for income generation	Value Added Corn	2024	-	10	Preparation, suitability and storage
15	Mushroom Production	Income generation	Demonstration of mushroom production for income generation	Mushroom Production	2024		10	Preparation, cost and income

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	October 2024	72
2	Farmers Training	03	November 2024	95
3	Media coverage	02	-	Mass
4	Training for extension functionaries	02	June & October 2024	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 2024	10	4.0	Tractor Drawn Seed Cum Fertilizer Drill	Yield q/ha, Economics, BC ratio		
Rotary Paddy Weeder	Rice	Kharif 2024	10	4.0	Rotary Paddy Weeder	Weeding efficiency, Yield q/ha, Economics, BC ratio		
Happy Seeder	Wheat	Rabi 2024	10	4.0	Happy Seeder	Field efficiency %, yield q/ha , Net return, B:C ratio		
Tractor Drawn Front Mounted Vertical Conveyor Reaper	Wheat	Rabi 2024	10	4.0	Tractor Drawn Front Mounted Vertical Conveyor Reaper	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		
Gurhul flower (China Rose) (<i>Hibiscus rosa-sinensis</i>) juice	Goat	10	10	Gurhul flower (China Rose) (<i>Hibiscus rosa-sinensis</i>) juice	Health Condition, Fecal Consistency		
Shisham leaves (<i>Dalbergia sissoo</i>) juice	Buffalo	10	10	Shisham leaves (<i>Dalbergia sissoo</i>) juice	Health Condition, Fecal Consistency		

*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
Information dissemination through social media (Whats app)	All crops	50	-	-	Level of Knowledge, Level of Adoption, Change in Income		
Technical information Farmers Producer Organization (FPOs)	All crops	02	-	-	Working fields, Record keeping, Rates of inputs (Seed & machineries), Annual income from FPOs, Number of Member (farmers), Credibility of FPOs, Decision making of		

					FPOs member		

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Lentil	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Rabi 2024	20	50	Yield q/ha, Economics, BC ratio
2	Mustard	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Rabi 2024	50	125	Yield q/ha, Economics, BC ratio
3	Linseed	ICM	Improved variety, Seed Treatment, STV based fertilizer application, INM and IPM	Seed	Rabi 2024	20	50	Yield q/ha, Economics, BC ratio
4	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	01	October	25

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

Formation and Management of SHGs									
Mobilization of social capital	02	02							50
Entrepreneurial development of farmers/youths	04	04							100
WTO and IPR issues									
XI Agro-forestry	11	11							275
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										
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
March	F & FW	PPV & FRA	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	02							50
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
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	01							25
July & November	F & FW	Importance of quality seed in crop production (Kharif & Rabi)	01							25
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
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

[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										
Agro-forestry										
July	F & FW	Plantation of fodder valuable trees in wastelands	01							25
August	F & FW	Reclamation of wasteland through silvi-pastures systems.	01							25
February	F & FW	Preventive measures & control of mango malformation.	01							25
September	F & FW	Methods & Importance of drip irrigation system in forest & horti crops	01							25
April	F & FW	Importance of soil solarization in nursery management.	01							25
January	F & FW	Enhancement of soil fertility through agroforestry.	01							25
April	F & FW	Availability of fodder on off seasons.	01							25
July	F & FW	Importation of NFTs for wastelands.	01							25
March	F & FW	Pruning practices on ber trees for yield enhancement.	01							25

November	F & FW	Integrated Farming	05							25
May	F & FW	Farm Bio Waste Management	05							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										
December	IS	Productivity enhancement in oilseed & pulse crops	01							25
February	IS	Protection of Plant Variety & Farmers Right Authority	01							25
Horticulture										
Livestock production										
May	IS	Role of livestock in sustainable agriculture (IFS)	01							25
November	IS	Importance of artificial insemination in dairy animals	01							25
Agril. Engineering										
January	IS	Use of improved implements for crop production	01							25
August	IS	Rain water management in Kharif crops	01							25
Home Science/ Women in Agriculture										
March	IS	Productivity enhancement in millet crops	01							25
September	IS	Value addition of millets	01							25
Plant Protection										
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

[illegible]**Extension Activities (including activities of FLD programmes)**[illegible]

[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 2024	01	1000
April- June 2024	01	1000
July- September 2024	01	1000
October- December 2024	01	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	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/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 CafeteriaTotal 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 2024

KVK Mandla

Year of sanction: 2024-25

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.2023)

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 V Sahare	Sr. Sc. & Head	Agri. Extension	37400-67000+ AGP 9000(7 pay- 147900)	01.02. 2019	2022	90399378 52	kvsahare@rediffmail.com	
2	Subject Matter Specialist	Dr. Deepali Bajpai	Scientist	Food Science	15600 & 39100 +AGP 8000 (7 pay- 104100)	24.01. 2007	2023	94257880 32	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	91317284 48	rameshwar_jan@rediffmail.com	
4	Subject Matter Specialist	Dr. Pranay Bharti	Scientist	Vety. Sc. (LPM)	15600 & 39100 +AGP 6000(7 pay- 73000)	07.09. 2017	2019	83196861 59	dr12pranay@gmail.com	
5	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Miss Ketki Dhumketi	Programme Assistant	Food Science	(7 pay-48100)	30.01. 2019	2020	91799219 29	ketkidhumketi@gmail.com	

9	Computer Programme r/ Programme Assistant	Smt. Dipti Dubey	Program me Assistant	Compute r Applicati on	(7 pay-64600)	01.04.2008	2017	9753937519	dip.1@rediffmail.com	
10	Farm Manager	-	-	-	-	-	-	-	-	-
11	Assistant	Er. Sourabh Thakur	Assistant grade III	BE	(7 pay-22600)	18.09.2014	2018	7000364035	sourabhthakur149@gmail.com	
12	Jr. Stenographer / Comp. Operator	-	-	-	-	-	-	-	-	-
13	Driver	Shri Rajju singh Rajput	Driver	12 th	(7 pay-32100)	08.07.2008	2008	9584297947		
14	Driver	Shri Wahid Mansuri	Driver	10 th	(7 pay-32100)	07.08.2008	2008	7354669921	kvkmandla@rediffmail.com	
15	Supporting staff									
16	Supporting staff									

1.3 Total land with KVK (in ha): 20

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2	Under Demonstration Units	0.4
3	Under Crops	1.0
4	Orchard/Agro-forestry	0.0
5	Others (specify) Undulated land	18.2
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		373.23				
2	Farmers Hostel	ICAR		455.22				
3	Staff Quarters (6)	ICAR		350				
4	Demonstration Units (2)	ICAR		0.4				

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)	2016	202451.00	20 hours	Working
Motor Cycle 2	2010		45323	Old vehicle
Bolero(Jeep)	2007		145654	Attach at registrar jnkvv
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2009	45422.00	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 10.10.2024
2	Pre Rabi 02.11.2024

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	Rice- Wheat Cropping System
2	AES – 2	Rice- Chickpea/Mustard Cropping System
3	AES – 3	Rice- lentil/pea/ Mustard/Linseed Cropping System
4	AES – 4	Kodo+Pigeonpea-Fellow, Kodo/Pigeonpea-Fellow
5	AES – 5	Pigeonpea/Sun hemp-Fellow, Pigeonpea+Sun hemp-Fellow
6	AES – 6	Niger/Milletts-Fellow

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 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/Lentil Cropping System	Medium soil- Fertility-Medium, Water Holding Capacity-Medium Easy of Tillage –Moderate, Humus- Medium
4	AES – 4 Millets+Pigeonpea-Fellow	Light soil- Fertility-Very Less, Water Holding Capacity-Low Easy of Tillage –Easy, Humus-Low
5	AES – 5 Pigeonpea/ Millets-Fellow	Light soil- Fertility-Very Less, Water Holding Capacity-Low Easy of Tillage –Easy, Humus-Low
6	AES – 6 Niger/Sun hemp-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
☐ Heavy soil Good for paddy and wheat cultivation, Rice-wheat cropping system	☐ Deep cracking of black soil	☐ Used Green manure/ compost for intensive farming	☐

AES-2 (name)

Strength	Weakness	Opportunities	Threats
☐ Soil- Fertility Medium used for Rice- Chickpea Cropping System	☐ Deep cracking of black soil	☐ Used Green manure/ compost for intensive farming	☐

AES-3 (name)

Strength	Weakness	Opportunities	Threats
☐ Medium soil and - Medium Fertile used for Kodo/kutki+Pigeonpea/ sunhemp-Fellow	☐ Cracking of black soil	☐ Used Green manure/ compost for high yield	☐

AES-4 (name)

Strength	Weakness	Opportunities	Threats
☐ Medium Soil and Medium Fertile soil	☐ Rain fed condition	☐ Single crop in Rainfed condition	☐

AES-5 (name)

Strength	Weakness	Opportunities	Threats
☐ Light Soil	☐ Low fertile soil, Grabbles	☐ Single crop in Rainfed condition	☐

AES-6 (name)

Strength	Weakness	Opportunities	Threats
☐ Light Soil	☐ Infertile soil/ Barra land, presences of Grabbles and undulated land	☐ Single crop in Rainfed condition	☐

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	877100
Forest	492140
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	381683
Kharif	224550
Rabi	157130
Zaid	3.0
Cropping Intensity	164

Irrigated Area with Different Sources: 65000 ha

S. No.	Description	Area “000 ha”
1	Canal	15.9
2	Well	14.2
3	Tube well	2.9
4	Ponds	0.18
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	81673
2	Medium	Fertility-Medium, Water Holding Capacity-Medium Easy of Tillage –Moderate, Humus- Medium	131534

3	Heavy	Fertility-More, Water Holding Capacity-High, Easy of Tillage –Difficult, Humus-More	81673

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, 2023- Dec., 2023) – Annual Average Rainfall of Mandla 1389.60mm

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan, 2023	0	32.5	4.2
Feb, 2023	0	35.8	7
Mar, 2023	67.5	37.6	13.4
Apr, 2023	46.1	41.6	15.8
May, 2023	31.1	42.6	17.2
Jun, 2023	352.4	43	22.2
July, 2023	443.7	36.8	23
Aug., 2023	269	35	22.5
Sept., 2023	181	35.8	22.4
Oct. 2023	14.3	35.5	13.2
Nov. 2023	29.7	34.4	11
Dec. 2023	8.2	30.4	11
Total	1443	36.8	15.2

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.
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	 (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	Mandla	Mandla	Beejadandi, Khuksar, Dungariya, Patpar shingarpur, Rambag,	Paddy, pigeonpea, wheat, gram	Use Imbalance fertilizers, High seed rate, local varieties	Crop Variety, INM,IPM
2	Niwas	Niwas	Kandwa, Jhinhra, Babaliya	Paddy, pigeonpea, wheat, gram, Millets	Use Imbalance fertilizers, High seed rate, local varieties	Crop Variety, INM,IPM
3	Narayanganj	Narayanganj	Bijegaon, Khamariya,	Paddy, pigeonpea, wheat, gram, Millets	Use Imbalance fertilizers, High seed rate	Crop Variety, INM,IPM
4	Ghughri	Ghughri	Imlitola	Paddy, pigeonpea, wheat, gram, Millets	Use Imbalance fertilizers, High seed rate	Crop Variety, 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	Soil and water conservation
5	Natural Farming
6	Crop diversification
7	Increasing productivity of vegetables
8	Promotion of organic farming along with balanced nutrition.
9	Farm mechanization and drudgery reduction
10	Integrated livestock management
11	Nutritional security at household level and Development of nutritional garden
12	Value addition of agricultural produces
13	Women empowerment through making SHG for income generation
14	Rainwater and irrigation management and irrigation methods

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	12 +3=15	120+525=645

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants

80	2400	120	5000
Seed Production (Qtl.)		Planting material (Nos.)	
0		5000	

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	INM	Paddy	Unavailability of Granular Urea	Assessment of Nano fertilizer in transplanted Rice					
2	INM	Wheat	Unavailability of Granular Urea and DAP	Assessment of Nano fertilizers in wheat production					
3	Natural Farming	Chickpea	Poor Soil Health	Assessment of Jeevamrut on Yield of Chickpea under Natural Farming					
4	Nutrient Management	Mustard	Yield reduction of Mustard due to lack of sulphur application	Assessment of effect of sulphur on yield of Mustard crop					
5	Nutrient Management	Paddy			Demonstration of Leaf Colour Chart (LCC) for management of nitrogen in rice production				
6	INM	Wheat			Demonstration of Integrated Nutrient Management on Wheat production under Rice- wheat cropping system				
7	INM	Paddy			Demonstration of integrated nutrient management on yield of Rice under Rice- Chickpea cropping system				
8	INM	Chickpea			Demonstration of Integrated Nutrient				

					Management on Yield of Chickpea (JG 12) in Rice-Chickpea cropping system				
9	Animal Health management/ITK	Cattle/Goat		Assessment of Use of decoction of Custard Apple leaf and seed for remedy of lice and ticks in animals					
10	Animal Health management/ITK	Goat		Assessment of Use of wood fruit (bael) to check diarrhoea in goat					
11	Animal Nutrition Management	Goat		Assessment of Stall Feeding System and Grazing System of Goat Rearing					
12	Poultry Management	Poultry		Assessment of improved birds in backyard poultry farming					
13	Animal Nutrition Management	Cattle			Demonstration of Napiar as green fodder for dairy cattle				
14	Animal Nutrition Management	Cattle			Demonstration of mineral supplement in cattle with free choice mineralised salt lick				
15	Poultry Management	Poultry			Demonstration of azolla as protein source for feeding of backyard poultry				
16	Animal Nutrition Management	Goat			Demonstration of mineral mixture supplementation in goat feeding				
17	Value addition	Kodo	Lack of processing and value addition		Demonstration of income generation through processing and value addition of minor millets				

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	0	0	0	0	0	0	0	0	0	0
Nutrient Management	2	0	1	0	0	0	0	0	0	3
Natural Farming	0	0	1	0	0	0	0	0	0	1
TOTAL	2	0	2	0	0	0	0	0	0	4

A.2 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/ITK	1	0	0	1	0	0	0	2
Animal Nutrition management	0		0	1	0	0	0	1
Poultry Management	0	1	0	0	0	0	0	1
TOTAL	1	1	0	2	0	0	0	4

A.3 Abstract on the number of technologies to be assessed in respect of Home Science

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Value addition	0	0	0	0	0	0	0	0	0	0
Nutritional Security	0	1	0	0	0	0	0	1	0	2
Income generation	0	0	0	0	0	0	1	0	0	1
Drudgery Reduction	0	0	0	0	0	1	0	0	0	1
TOTAL	0	1	0	0	0	1	1	1	0	4

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

Name of Discipline	Soil Science
Crop/Enterprise	Paddy
Title of on-farm trial	Assessment of Nano fertilizers 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

Name of Discipline	Soil Science
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 Budget 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

Name of Discipline	Soil Science
Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Nano fertilizers in Wheat
Problem diagnosed	Less availability of granular urea & other nitrogenous 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 -4

Name of Discipline	Soil Science
Crop/Enterprise	Lentil
Title of on-farm trial	Assessment of nutrient management on yield of lentil under irrigation condition
Problem diagnosed	Yield reduction of lentil due to imbalance nutrient management
Farming situation	Irrigated
Production system and thematic area	Nutrient Management
Farmers' practices	T1: Urea 50 and DAP 50kg/ha
Details of technologies selected for assessment/refinement Treatments	T2: RDF (20:40:20 kg/ha)+ based on STV
Source of technology	IIPR, Kanpur
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	Biofertilizers and vermicompost
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	Cattle/goat
Title of on-farm trial	Assessment of Use of decoction of Custard Apple leaf and seed for remedy of lice and ticks in animals (1st Year)
Problem diagnosed	High treatment cost under conventional Allopathic treatment regime

Farming situation	Semi-intensive
Production system and thematic area	Animal health Management/ ITK
Farmers' practices	conventional Allopathic treatment regime
Details of technologies selected for assessment/refinement Treatments	T1-conventional Allopathic treatment regime T2- decoction of Custard Apple leaves, applied twice in a week
Source of technology	Booklet On Indigenous Technical Knowledge (Document -3) Code-1593. Page-338
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	Cost of remedy of lice and ticks in animals Days for recovery
Cost of input	-
Total cost (include cost for transportation, procurement, field board/banner cost)	2500

OFT -6

Crop/Enterprise	Goat
Title of on-farm trial	Assessment of Use of wood fruit (bael) to check diarrhoea in animals (1st Year)
Problem diagnosed	High treatment cost under conventional Allopathic treatment regime
Farming situation	Semi-intensive
Production system and thematic area	Animal health Management/ ITK
Farmers' practices	conventional Allopathic treatment regime
Details of technologies selected for assessment/refinement Treatments	T1-conventional Allopathic treatment regime T2- Juice of wood apple is mixed with water and is drenched to the animals 2-3 times a day for 2-3 days
Source of technology	Booklet On Indigenous Technical Knowledge (Document -3) Code-1280. Page-300
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	Time taken for full recovery (days),Cost effectiveness,Availability

recorded	Safety
Cost of input	-
Total cost (include cost for transportation, procurement, field board/banner cost)	2500

OFT -7

Crop/Enterprise	Goat
Title of on-farm trial	Assessment of Stall Feeding System and Grazing System of Goat Rearing (2nd 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)	05
Critical input	Concentrate
Performance indicators Observation to be recorded	Body wt.
Cost of input	3500
Total cost	6000

OFT -8

Crop/Enterprise	Poultry
Title of on-farm trial	Assessment of improved birds in backyard poultry farming (2nd 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	15000
Total cost	18000

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 Dept. Personnel	
Feedback	

OFT -9

Title of on-farm trial:	Assessment of niger (<i>Guizotia abyssinica</i>) seed ladoo as daily dietary intervention for anemic adolescent girls
Year/Season:	Rabi 2024
Problem diagnosis:	Malnutrition due to high anemia in rural adolescent girls
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-	Imbalance diet
T2 –Recommended Practice-	Niger seed ladoo -50 gm /day/girl for Four weeks in their daily diet (2:1, roasted niger: jaggery)
Source of technology:	CSAUA & T, Kanpur 2017 Niger seed ladoo Food Science Research Journal, Vol 8, No 2 (2017), Pagation: 187-190
Characteristics of technology:	Niger seed (<i>Guizotia abyssinica</i>) is a type of oilseed crop which is reported to be containing very high amount of iron(56.7mg/100gm) in plant based foods and may be of immense help in improving the iron status of vulnerable population group
Name of Crop/Enterprises:	Niger
Farming situation:	Rainfed
Date of sowing:	Rabi 2024
Date of harvesting:	Rabi 2024
Recommendations for Farmers	
Recommendations for Dept. Personnel	
Feedback	

OFT-10

Title of on-farm trial:	Assessment of marigold flower cultivation for income generation by farm women
Year/Season:	Kharif 2024
Problem diagnosis:	Low income of farm women due to lack of enterprises
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):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	No flower cultivation
T2 –Recommended Practice-	Marigold cultivation for income generation
Source of technology:	Tiwari, Rekha ,Tomar ,D. S. , Dixit,A, K, and Saxena,A. K.(2015)Cultivation of Pusa Narangi Variety of Marigold for Crop Diversification and Empowering Farm Women in Malwa Plateau of Madhya Pradesh. <i>J Krishi Vigyan</i> 2015, 3(<i>Special Issue</i>) : 14-18
Characteristics of technology:	Attractive price in market due to appealing orange (saffron colour), big size, compact and each petal well shaped, good keeping quality(4-5 days) and high yield
Name of Crop/Enterprises:	Marigold Marigold cultivation-Var-Pusa narangi
Farming situation:	Irrigated
Date of sowing:	June- July2024
Date of harvesting:	September 2024-November2024
Recommendations for Farmers	
Recommendations for Dept. Personnel	
Feedback	

OFT -11

Name of Discipline	Food Science
Crop/Enterprise	Drumstick leaves
Title of on-farm trial	Assessment of incorporation of Drumstick leaves 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 leaves powder
Details of technologies selected for assessment/refinement Treatments	T1- No use of Drumstick leaves powder T2- Drumstick leaves Powder (5 g/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 leaves Powder
Performance indicators Observation to be recorded	Hb (g/dL), Energy (kcal), Protein (gm), Iron (mg), Calcium (mg),
Cost of input	2000.00
Total cost	2000.00

OFT -12

Name of Discipline	Food Science
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 Decortications 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)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	01	Nov 2024	40
2	Farmers Training	05	January 2024	125
3	Media coverage	02	-	Mass
4	Training for extension functionaries	0	-	-

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 2024	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction
2	Wheat	INM	Demonstration of Integrated Nutrient Management on Wheat production under Rice- wheat cropping system	15000	Rabi 2024	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction
3	Paddy	INM	Demonstration of integrated nutrient management on yield of Rice under Rice- Chickpea cropping system	15000	Kharif 2024	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction
4	Mustard	Nutrient Management	Demonstration of effect of sulphur on yield of Mustard crop	10000	Rabi 2024	2.0	10	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	1	Sep	30
2	Farmers Training	4	July, august	100
3	Media coverage	1	Sep	Mass
4	Training for extension functionaries	1	Oct	25

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
Paddy	MTU1010	Kharif	10	2	LCC	Yield (kg/ha), B:C		
Paddy	JR81	Kharif	10	2	Nano fertilizers	Yield (kg/ha), B:C		
Wheat	JW3382	Rabi	10	2	Biofertilizers and Vermicompost	Yield (kg/ha), B:C		
Mustard	RH0725	Rabi	10	2	Betonies Sulfur	Yield (kg/ha), B:C		

*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	local	05	05	Napiar root slip	Milk Production		
Cattle	local	05	05	Salt lick brick	Milk Production		
Poultry	desi	05	150	Azolla bed	Body weight		
Goat	local	05	05	Mineral Mixture	Body weight		

*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
vermi composting	Vermi-compost (Variety of worm-Eisinea fetida)	5	5	HDPE bed and worm	Yield of compost and B:C ratio		
Paddy	CR Dhan 321	10	10	Seed of paddy	Yield		
Kodo millet	Demonstration of income generation through processing and value addition of minor millets	10	10	Kodo millet	Total Production, Total Expenditure, Gross Income, Net Income, B:C Ratio		
Vegetables	Demonstration of backyard nutritional kitchen garden	20	20	Vegetables seed kit	Per capita Consumption gm/day, Energy (kcal), Protein (gm), Iron (mg), Calcium (mg),		

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	1	Oct., Dec., Feb., and March	50
2	Farmers Training	20	August., Nov., Dec., and Jan	500
3	Media coverage	8	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.

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

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	Seeds, Biofertilizers, Vermicompost	Kharif 2024	30	75	Yield q/ha, B:C Ratio,
2	Mustard	INM and IPM	Improved seed, seed treatment with Biofertilizers, line sowing,spray of weedicide & insecticide	Seeds,Biofertilizers, Vermicompost	Rabi 2024	80	200	Yield q/ha, B:C Ratio,
3	Lentil	INM and IPM	Improved variety, L 4717 (Pusa Ageti Masur) / RVL 13-7 (Raj Vijay Lentil 13-7), Line Sowing, Seed Treatment with Tricoderma viridi + PSB+ Rizobium for lentil	Seeds,Biofertilizers, Vermicompost	Rabi 2024	100	250	Yield q/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	3	Oct., Dec., Feb., and March	90
2	Farmers Training	3	August., Nov., Dec., and Jan	90
3	Media coverage	3	August., Nov., Dec., and Jan	Mass
4	Training for extension functionaries	1	Dec., and Jan	25

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	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0
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	1	1	6	2	8	9	8	17	25
II Horticulture									
a) Vegetable & fruit Crops	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0	0
Total									
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
Grand total (Horticulture)	0	0	0	0	0	0	0	0	0
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
Total	10	8	60	20	80	90	80	170	250
IV Livestock Production and Management									
Dairy Management	1	1	6	2	8	9	8	17	25
Poultry Management	1	1	6	2	8	9	8	17	25
Disease Management	1	1	6	2	8	9	8	17	25
Feed management	1	1	6	2	8	9	8	17	25
Production of quality animal products	1	1	6	2	8	9	8	17	25

Total	5	5	30	10	40	45	40	85	125
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
Gender mainstreaming through SHGs	1	1	6	2	8	9	8	17	25
Value addition	1	1	6	2	8	9	8	17	25
Income generation activities for empowerment of rural Women	1	1	6	2	8	9	8	17	25
Location specific drudgery reduction technologies	1	1	6	2	8	9	8	17	25
Women and child care	2	1	12	4	16	18	16	34	50
Total	10	9	60	20	80	90	80	170	250
VI Agril. Engineering									
Total	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
Total	0	0	0	0	0	0	0	0	0
VIII Fisheries								0	
Integrated fish farming	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site								0	
Vermi-compost production	1	1	6	2	8	9	8	17	25
Organic manures production	1	1	6	2	8	9	8	17	25
Total	2	2	12	4	16	18	16	34	50
X Capacity Building and Group Dynamics								0	
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	
Mobilization of social capital	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths									
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	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0
Grand Total	28	25	168	56	224	252	224	476	700
(B) RURAL YOUTH									
Mushroom Production	1	1	6	2	8	9	8	17	25
Bee-keeping	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0
Vermi-culture	1	1	6	2	8	9	8	17	25
Value addition	2	1	12	4	16	18	16	34	50
Sheep and goat rearing	1	1	6	2	8	9	8	17	25
Para extension workers	1	1	6	2	8	9	8	17	25

TOTAL	6	5	36	12	48	54	48	102	150
(C) Extension Personnel									
Productivity enhancement in field crops	1	1	6	2	8	9	8	17	25
Integrated Pest Management	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	1	1	6	2	8	9	8	17	25
Protected cultivation technology	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	1	6	2	8	9	8	17	25
Production and use of organic inputs	1	1	6	2	8	9	8	17	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0
TOTAL	4	4	24	8	32	36	32	68	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	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	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
Nursery management	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0
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	1	0	0	0	0	0	0	0	0
II Horticulture									
a) Vegetable Crops									
Nursery raising	0	0	0	0	0	0	0	0	0
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
Total									
d) Plantation crops									

e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
Total									
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	2	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	2	12	4	16	18	16	34	50
Total	10	10	60	20	80	90	80	170	225
IV Livestock Production and Management									
Dairy Management	1	1	6	2	8	9	8	17	25
Poultry Management	1	1	6	2	8	9	8	17	25
Disease Management	1	1	6	2	8	9	8	17	25
Feed management	1	1	6	2	8	9	8	17	25
Production of quality animal products	1	1	6	2	8	9	8	17	25
Total	5	5	30	10	40	45	40	85	125
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
Gender mainstreaming through SHGs	1	1	6	2	8	9	8	17	25
Storage loss minimization techniques	1	1	6	2	8	9	8	17	25
Value addition	1	1	6	2	8	9	8	17	25
Income generation activities for empowerment of rural Women	1	1	6	2	8	9	8	17	25
Location specific drudgery reduction	1	1	6	2	8	9	8	17	25

technologies									
Rural Crafts	0	0	0	0	0	0	0	0	0
Women and child care	1	1	6	2	8	9	8	17	25
Total	10		0	0	0	0	0	0	0
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
Total									
VIII Fisheries									
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0
TOTAL	26	15	90	30	120	135	120	255	350
(B) RURAL YOUTH									
Production of organic inputs	1	1	6	2	8	9	8	17	25
Sheep and goat rearing	1	1	6	2	8	9	8	17	25
TOTAL	2	2	12	4	16	18	16	34	50
(C) Extension Personnel	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

[illegible]

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 dairy buffaloes and cows	1	Economical balanced feeding in dairy buffaloes and cows	1	6	2	8	9	8	17	25
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

[illegible]

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 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 dairy	1	Economical balanced feeding in dairy	1	6	2	8	9	8	17	25

[illegible]

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 Farming	1	Natural Farming	1	6	2	8	9	8	17	25

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)

[illegible]

Self Help Group Conveners meetings	5	48	51	99	13	20	33	61	71	132
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	10	196	120	316	50	25	75	246	145	391
Others (pl. specify)	20	706	633	1339	222	111	333	928	744	1672
Total	205	114123	68329	182452	4172	3457	7629	118295	71786	190081

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	100
	Mango	Dasehri	100
	Papaya	Pusa nanha	200
SPICES			
VEGETABLES	Tomato,	Tomato-NS815,	1000
	Brinjal	Brinjal- Biground	1000
	Drumsticks	PKM1	600
FOREST SPECIES			

ORNAMENTAL CROPS	Marigold	Pusadip, pusa bahar	1000
	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	-	20q	2000
2	NADEP	-	-	-
3				
BIO PESTICIDES				
1	Dasparni ark			500lit
2	Pesticides			500lit
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Indigenous	Gir cross, sahiwal cross	13	-
SHEEP AND GOAT	Indigenous	jamunapari	6	-
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 2024	-	-
April-june 2024	-	-
July-Sep. 2024	-	-
Oct.-Dec. 2024	-	-

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

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	1

2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	1
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: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: **No established lab**

List of equipment's purchased: **None**

Sl. No.	Name of the Equipment	Qty.	Condition
1	all equipment's for lab establishment	-	-
2			

Details of samples analyzed so for: 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

b) 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: 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	02	80
2	Awareness Programs (Sanghosthi, Exposure visit, Method Demonstration)	15	450
3	Kisan Mela	01	500
4	Exhibition	02	2000
5	Demonstration on Natural Farming (Kodo+Pigeonpea)	12	12

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	JRB1, JR81, PS-1,PS-5, IR-64, IR-36, JR -201, Mahamaya, JRH-8, JRH-5 MTU-1010, , Bamleshwari,	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,		1000
Gram	Rabi	JG-11, JG-74, JGG-1, JG-12, JG-14, JG-36, 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	L 4717 (Pusa Ageti Masur), RVL 13-7 (Raj Vijay Lentil 13-7)		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	kadaknath, guinea fowl	10	-
Natural Farming	Beejamrut, Jeewamrut, Ghanjeewamrut, Neemastra, Bahammastra, Agniastra, Dasparni Ark, Panchgavya, Fafoonndnashak	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 2024

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.2023)

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_srgkp@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 Assitant	Home Science	46700	29-01-2019		9300935650	drpoojachaturvedi0@gmail.com	
9	Computer Programmer / Programme Assistant	Smt. Rajni Prabha Kori	Programme Assitant	Computer Application	66500	04-04-2008		8889487831	prabha.kvk@gmail.com	
10	Farm Manager	Shri Vijay Singh Suryawanshi	Programme Assitant	Agronomy	59100	14-10-2011		9755925530	vssuryawanshi11@gmail.com	

11	Assistant	Ku. Rinki Jhariya	Assistant Grade - III	Assistant Grade - III		21/08/2017	28.12.2021	8959454544	rinkijharia29@gmail.com	
12	Jr. Stenographer / Comp. Operator	-								
13	Driver	Sh. Narendra Kumar Raikwar	Driver cum mechanic	Driver cum mechanic	32100	17/07/2008		9302966021		
14	Driver	Sh. Rajkumar Vishwakarma	Driver cum mechanic	Driver cum mechanic	32100	05-07-2008		9425468900	rajkvishwakarma023@gmail.com	
15	Supporting staff	Shri Kamal Kant Dubey	Peon Grade - IV	Grade - IV						
16	Supporting staff									

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

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	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		
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	
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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	10.8	24	11
Feb. 2023	15	28	14
Mar. 2023	18.4	33	18
Apr. 2023	5.2	38	23
May. 2023	8.9	41	27
Jun. 2023	124.8	37	27
July. 2023	244.9	31	25

Aug. 2023	220.7	30	24
Sept. 2023	142.7	32	24
Oct. 2023	25.5	32	20
Nov. 2023	7.7	29	15
Dec. 2023	5.7	26	12

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	 (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						
2						
3						
4						
5						

Priority / Thrust areas

S. No.	Particulars
1.	
2.	

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	80	18	55

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2400	25	750

Seed Production (Qtl.)		Planting material (Nos.)	
650		30000	

[illegible]

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

[illegible]

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

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	

OFT-1

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Nano Urea in Paddy under rice – wheat cropping system	
Problem diagnosed	Unavailability of urea fertilizer and low yield of rice due to leaching losses	
Farmers' Practices	Irrigated	
Details of technologies selected for assessment	T ₁	
	T ₂	Basal dose 80:60: 40 N:P:K and Nano urea spray @ 500ml/acre at the time after 35-40 days and 55-60 days of crop
	T ₃	Rows can be added if necessary
Source of technology	JNKVV, 2021-22	
Plot size		
No. of farmers	5	
Total cost	Rs 25000-28000/ha	
Critical input	Nano urea	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No of effective tillers/hills, Grain/Panicles, yield q/ha,	

OFT -2

1	Enterprise	Pigeon pea
2	Title of on-farm trial	Assessment of improved variety of Pigeonpea Bheema (GRG 152) under Pigeonpea-moong cropping system
3	Problem diagnosed	Problem of wilt and sterility mosaic disease (SMD) in old varieties
4	Farming situation	Rainfed
5	Production system and thematic area	Ridge & Furrow and varietal improvement
6	Farmers' practices	T1 : Farmers practice (Rajeshwari)
7	Details of technologies selected for assessment/refinement Treatments	T1: Improved variety Bheema (GRG 152)
8	Source of technology	ZARS, Kalaburagi 2020
9	Plot size	
10	No. of farmers	5
11	Critical input	Seed and Culture (Trichioderrma, Rhizobium and PSB @ 5gm/kg seed)
12	Cost of input	Rs 1750 seed and biofertilizer 100
13	Total cost	Rs 19000-22000/ha
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No of Branches/plant, Pods/plant , yield q/ha and B : C ratio

OFT - 3

1	Enterprise	Pigeon pea
2	Title of on-farm trial	Assessment of improved variety of Soybean (JS 21-72) under Soybean-Wheat cropping system
3	Problem diagnosed	Problem of YMV and Chorchol rot
4	Farming situation	Rainfed
5	Production system and thematic area	Ridge & Furrow and varietal evaluation
6	Farmers' practices	T1 : Farmers practice (JS 20-116)
7	Details of technologies selected for assessment/refinement Treatments	T1: Improved variety JS 21-72
8	Source of technology	JNKVV, Jabalpur 2022
9	Plot size	
10	No. of farmers	5
11	Critical input	Seed and Culture (Trichioderrma, Rhizobium and PSB @ 5gm/kg seed)
12	Cost of input	Rs 10400 seed and biofertilizer 100
13	Total cost	Rs 19000-22000/ha
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No of Branches/plant, Pods/plant , yield q/ha and B : C ratio

OFT - 4

1	Enterprise	Chickpea
2	Title of on-farm trial	Assessment of Nano DAP in Chickpea under Rice – chickpea cropping system
3	Problem diagnosed	Unavailability of DAP granules
4	Farming situation	Irrigated
5	Production system and thematic area	CRP
6	Farmers' practices	T1Use of N:P:K @ 20:60:20
7	Details of technologies selected for assessment/refinement Treatments	T2 Basal dose 16:50:20 and Spraying of Nano DAP for Seed treatment @1ml/kg seed + 1st spray 4ml/lit 30-40days after sowing
8	Source of technology	JNKVV 2021
9	Plot size	
10	No. of farmers	5
11	Critical input	Nano DAP Seed treatment @1ml/kg seed + 1st spray 4ml/lit 30-40days after sowing
12	Cost of input	Rs 3000 /-
13	Total cost	Rs 22000-25000/ha
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No. of branches/plant, pods /plant , yield (q/ha) and B:C ratio

OFT - 5

1	Enterprise	Paddy
2	Title of on-farm trial	Assessment of Natural farming components in rice production under rice – wheat cropping system
3	Problem diagnosed	deterioration of soil health due to use of Chemical fertilizer, pesticides and fungicides
4	Farming situation	Irrigated
5	Production system and thematic area	CP and Natural farming
6	Farmers' practices	Farmers practice (Use of chemical fertilizers)
7	Details of technologies selected for assessment/refinement Treatments	application of beejamitra, +Ganjivamrit 1 ton/ha+Jivamrit 500 lit/ha twice+three time @ 6%+Neemastra 6%+Saptparni 3%
8	Source of technology	ICAR 2018
9	Plot size	
10	No. of farmers	5
11	Critical input	beejamitra, +Ganjivamrit 1 ton/ha+Jivamrit 500 lit/ha twice+three time @ 6%+Neemastra 6%+Saptparni 3%
12	Cost of input	Rs 6500
13	Total cost	Rs 22000-25000/ha
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No of effective tillers/hills, Grain/Panicles, yield q/ha, Organic carbon %, yield (q/ha) and B:C ratio

OFT - 6

1	Enterprise	Chickpea
2	Title of on-farm trial	Assessment of Natural farming components in Chickpea under rice – wheat cropping system
3	Problem diagnosed	deterioration of soil health due to use of Chemical fertilizer, pesticides and fungicides
4	Farming situation	Irrigated
5	Production system and thematic area	CP and Natural farming
6	Farmers' practices	Farmers practice (Use of chemical fertilizers)
7	Details of technologies selected for assessment/refinement Treatments	application of beejamitra, +Ganjivamrit 1 ton/ha+Jivamrit 500 lit/ha twice+three time @ 6%+Neemastra 6%+Saptparni 3%
8	Source of technology	ICAR 2018
9	Plot size	
10	No. of farmers	5
11	Critical input	beejamitra, +Ganjivamrit 1 ton/ha+Jivamrit 500 lit/ha twice+three time @ 6%+Neemastra 6%+Saptparni 3%
12	Cost of input	Rs 5000
13	Total cost	Rs 15000-18000ha
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Branches/plant, Pods/ plant , B : C ratio Organic carbon %,Microbes population of soil

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	

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 Dept. Personnel	
Feedback	

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	Kodo	CP	Demonstrations on improved variety of Kodo variety JK 137	Seed 2kg/acre + Culture	Kharif, 2024	4	10	yield q/ha and B: C ratio
2	Wheat	CP	Demonstration of Nano urea in wheat under Rice – Wheat cropping system	Nano urea	Rabi, 2024 -25	4	10	tillers/plant, yield q/ha and B: C ratio
3	Lentil	CP	Demonstration of improve variety of Lentil (L 4717)	Seed 8kg/acre + Culture	Rabi, 2024 -25	4	10	yield q/ha and B: C ratio
4	Linseed	CP	Demonstration of improve variety of linseed (JLS 95)	Seed 8kg/acre + Culture	Rabi, 2024 -25	4	10	Capsules/Plant , yield q/ha and B: C ratio
5	Green gram	CP	Demonstration of improve variety of linseed (JLS 95)	Seed 8kg/acre + Culture	Rabi, 2024 -25	4	10	Pods/Plant, yield q/ha and B: C ratio
6	Pigeon Pea	IDM	Demonstration of IDM Practices for the management of Phytophthora disease of Pigeonpea	Soil & Seed Treatment with trichoderma, Distence of sowing, roughing, application of fungicide	Kharif, 2023	2	5	disease incidence, yield, B: C ratio
7	Brinjal	IPM	Demonstration of IPM practices on the management of Root knot nematode in Brinjal	Soil solarization of nursery bed, spraying of Matarazium anasopli @ 1000 ml/ha, planting of Marry gold after each 10 as trap crop , soil treatment with neem cake @ 5q/ha	Rabi, 2023-24	2	5	Nematode infestation% , yield q/ha and B:C ratio

8	Lentil (Pant 8)	CP +IPM	Demonstration on Natural Farming components in lentil against the management of pests(aphid and wilt)	Seed treated with beejamitra+ use of ghanjivamitr a 1000kg+jiva mitra @ 500 lit/ha 3-4 times +Neemastra twice + Dus parni twice @ 3% at 10 days interval +Sothastra @2% 55 days+mahi5 % at 65-70 days	Rabi 2023	2	5	Pest incidence incidence %, plant height,pod/plant +1000 grain weight+ , yield q/ha, B : C ratio
9	Paddy	IDM	Demonstration of IDM Practices against false smut of Rice	Application of Seed treatment, roughing, Use of Propiconazol e as spray @ 500ml/ha	Kharif, 2023	2	5	Pest &Disease infestation % , yield q/ha, B:C ratio
10	Guava	Agro forestry	Demonstration on Guava var. Allahabad Safeda	Grafted Guava Plants	Kharif, 2024	2.0	5	Survival % , Height, yield q/ha (Fruit yield)
11	Napier Grass	Agro forestry	Demonstration of hybrid Napier grass in agro forestry System	Hybrid Napier grass	Kharif, 2024	1	5	Survival %, growth, no. of cutting, green yield q/ha.
12	Khamer	Agro forestry	Demonstration of khamer plantation under restricted irrigation	Khamer plant sapling	Kharif 2024	2	5	Survival % , height, yield q/ha.
13	Eucalyptus	Agro forestry	Demonstration on Eucalyptus clones under Agri-silvi system	Eucalyptus plant seedling	Kharif 2024	1	5	Survival (%), yield and B : C ratio
14	Pigeon Pea	RCT	Demonstration on sowing of Pigeon Pea through Raised Bed Planter	Raised Bed Planter, Seed	Kharif, 2024	2	5	Crop Yield
15	Soybean	RCT	Demonstration on sowing of Soybean through Raised Bed Planter	Raised Bed Planter, Seed	Kharif, 2024	2	5	Crop Yield
16	Chickpea	RCT	Demonstration on sowing of Chickpea through Raised Bed Planter	Raised Bed Planter, Seed	Rabi, 2024-25	2	5	Crop Yield
17	Chickpea	RCT	Demonstration on sowing of Moong bean through Raised Bed Planter	Raised Bed Planter, Seed	Summer 2025	2	5	Crop Yield
18	Value added	Income Generation	Demonstration of performance of value	Value added products of	Rabi 2024			Shelf life (days), B:C ratio, Net income

	products from Anola		added products (as Immunity booster) from Anola	Anola (Candy and Supari)				
19	Seasonal Vegetables	Nutritional Security	Demonstration of Nutritional Kitchen garden at backyard	Vegetables seeds	Rabi ,Kharif, Summer	0.025	10	Production kg/ unit, Availability/capita, Nutrient Intake / capita, Anthropometric measurements
20	Multigrain biscuit	Nutritional security	Demonstration of healthy multigrain cookies in school going children	Multigrain biscuit	Rabi 2024	10		Anthropometric measurements , B.M.I.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	`	-	550
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

*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 (2024-25)

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

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days			

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

1. On Campus

[illegible]

[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)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers Seminar										
Workshop										
Group meetings										
Lectures delivered as resource persons										
Newspaper coverage										
Radio talks										
TV talks										
Popular articles										
Extension Literature										
Advisory Services										
Scientific visit to farmers field										
Farmers visit to KVK										
Diagnostic visits										
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Others (pl. specify)										
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			

SPICES			
VEGETABLES			
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			
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 2024

KVK Panna

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.2023)

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	Vacant	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Dr. P. N. Tripathi	Scientist & Senior Scientist and Head (I/c)	Soil Science and Agl. Chemistry	15600-39100 + 7000 AGP (101200)	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 (92500)	13.10.2011	13.10.2011	8819824012	rkjaiswal037@gmail.com	
4	Subject Matter Specialist	Dr. Ranvijay Pratap Singh	Scientist	Horticulture	15600-39100 + 6000 AGP (79800)	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 (48100)	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 (44800)	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	45269 Km (31.12.2023)	Functional
Bolero(Jeep)	2016-17	736753.00	161150 Km (31.12.2023)	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	05.07.2024
2	05.10.2024

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	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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (° C)	
		Maximum	Minimum
January 2023	0.0	28	6
February 2023	0.0	33	8
March 2023	22.8	41	13
April 2023	11.7	44	20
May 2023	26.5	45	22
June 2023	96.8	45	21
July 2023	181.2	36	23
August 2023	443.6	35	22
September 2023	197.8	34	22
October 2023	39.6	33	14
November 2023	0.0	33	8
December 2023	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 (2023)

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, Jaruapur, Udki	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, Patnatamoli	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, Birasan	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	Shahpurkhurd, Siharan, Bijakheda, Sijahati, Gangajhiriya	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.	wet 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 from 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 improved 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
20	360	540	795

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2000	230	10280

Seed Production (Qtl.)	Planting material (Nos.)
160	500000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterp 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 and Ginger	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 and Sesame	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
14.	Integrated Nutrient Management	Rice	Low yield of paddy due to imbalance use of fertilizers	Assessment of Integrated Nutrient Management in Paddy crop	-	Importance of Integrated Nutrient Management in Paddy crop		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
15.	Integrated Nutrient Management	Lentil	Low yield of Lentil due to imbalance use of fertilizers	Assessment of Nano fertilizers on growth and yield of Lentil crop	-	Role of Nano fertilizers on growth and yield of Lentil crop		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
16.	Integrated Nutrient Management	Tomato	Fruit cracking in tomato due to deficiency of Boron	Assessment of foliar application of Boron micronutrient on growth, yield and quality of tomato crop	-	Role of foliar application of Boron micronutrient on growth, yield and quality of tomato crop		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
17.	Information Communication Technology (ICT)	Chickpea and Mustard	Delayed and lack of audio visual based technical information regarding Pod Borer in Chickpea	Assessment of effectiveness of ICT based messages used by farmers regarding protection from Pod Borer in Chickpea	Demonstration on Impact of visual based technical information dissemination through social media in Mustard crop	Impact of visual based technical information dissemination through social media in Mustard crop		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
18.	Transfer of Technology (TOT)	Greengram and other crops	Poor knowledge about Soil Health Card and their importance	Assessment of adoption level towards Soil Health Card in farming community	Demonstration on Impact of visual based technical information dissemination through social media ICT	Impact of visual based technical information dissemination through social media ICT Tools in Greengram crop		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs

					Tools in Greengram crop				
19.	Information Communication Technology (ICT)	Blackgram	Delayed and lack of audio visual based technical information regarding insect pest management in Blackgram	Assessment of ICT information used by farmers regarding Insect pest management in Blackgram	Demonstration on Impact of visual based technical information dissemination through social media in Pigeonpea crop	Impact of visual based technical information dissemination through social media in Pigeonpea crop		Sangosthi, Field visit, Field Day, Group Discussion	Distribution of seedlings, seeds and other inputs as per discipline wise needs
20.	Information Communication Technology (ICT)	Soybean	Lack of technical knowledge among farmers	Assessment of effectiveness of visual based Social Media for dissemination of agriculture technologies in Soybean		Impact of visual based Social Media for dissemination of agriculture technologies in Soybean		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	4	1	2	0	1	0	0	0	0	8
Agriculture Extension	1	1	2	0	0	0	0	0	0	4
TOTAL	05	02	06	01	03	0	01	01	01	20

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 selectedfor 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	10	
Total cost (Rs.)	11000	
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	10	
Total cost	9000	
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	T2 + 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	10	
Total cost	9500	
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	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	10	
Total cost	9500	
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	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	10
Total cost	9500
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	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	10
Total cost	14500
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	10
Total cost	14000
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	10
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	10
Total cost	8500
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	10
Total cost	8000
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	10
Total cost	7000
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	10
Total cost	8000
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	10

Total cost	8000
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

OFT – 14

Crop / Enterprise	Rice
Title of on farm trial	Assessment of Integrated Nutrient Management in Paddy crop
Problem diagnosed	Low yield of paddy due to imbalance use of fertilizers
Farmers' Practices	Imbalance use of Fertilizers (Urea 100 kg/ha and DAP 100 kg/ha)
Details of technologies selected for assessment	T ₁ Imbalance use of Fertilizers (Urea 100 kg/ha and DAP 100 kg/ha)
	T ₂ Seed treatment with <i>Azotobacter</i> and PSB @ 10gm/kg seed, application of RDF N:P:K (100:60:40 kg/ha) (STV based)
	T ₃ Seed treatment with <i>Azotobacter</i> and PSB @ 10gm/kg seed, application of BGA @ 10 kg/ha, 70 % RDF (STV based), application of Zinc as per need
Source of technology	JNKVV, 2015
Plot size	0.4 ha
No. of farmers	10
Total cost	10000
Critical input	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

OFT- 15

Crop / Enterprise	Lentil
Title of on farm trial	Assessment of Nano fertilizers on growth and yield of Lentil crop
Problem diagnosed	Low yield of Lentil due to imbalance use of fertilizers
Farmers' Practices	No Seed treatment with Nano DAP and imbalance use of DAP @ 100 kg/ha
Details of technologies selected for assessment	T ₁ No Seed treatment with Nano DAP and imbalance use of DAP @ 100 kg/ha
	T ₂ Seed treatment with Nano DAP @ 5ml/kg seed, application of 100% RDF (N:P:K:S 20:50:20:20) (Soil test value based)
	T ₃ Seed treatment with Nano DAP @ 5ml/kg seed, 50% of RDF as basal dose and 2 foliar spray of Nano DAP@ 4ml/lit of water at 30 and 60 DAS
Source of technology	IFFCO 2019
Plot size	0.4 ha
No. of farmers	10
Total cost	12000
Critical input	Nano DAP, Fertilizers, Biofertilizers
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	No. of effective nodules/plant, No. pods/plant, yield (q/ha), B:C ratio

OFT – 16

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of foliar application of Boron micronutrient on growth, yield and quality of tomato crop
Problem diagnosed	Fruit cracking in tomato due to deficiency of Boron
Farmers' Practices	No use of boron micronutrient in tomato crop
Details of technologies selected for assessment	T ₁ No use of boron micronutrient in tomato crop
	T ₂ Foliar application of Boron (20 % EDTA) @ 2.0 gm/lit of water prior to fruit setting
	T ₃ -
Source of technology	IISS Bhopal 2016
Plot size	0.1 ha

No. of farmers	10
Total cost	10000
Critical input	Boron, Biofertilizers
Performance indicators: (i) Technical- Yield (q/ ha) (ii) Economic- B:C ratio (iii) Social – Employment generation	No. of fruits/plant, No. pods/plant, yield (q/ha), B:C ratio

OFT-17

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of effectiveness of ICT based messages used by farmers regarding protection from Pod borer in Chickpea
Problem diagnosed	Delayed and lack of audio visual based technical information delivery regarding Pod borer in Chickpea
Farmers' Practices	Use of unauthentic source of information regarding management of Pod borer in Chickpea
Details of technologies selected for assessment	Share the agricultural practices on Pod Borer in Chickpea production through ICT based messages like audio, video, text message and photographs etc. and capacity building
No. of farmers	50
Total cost	6500
Critical input	ICT based messages
Performance indicators:	Unit
➤ Profile of ICT user	No.
➤ Pod borer management practices in chickpea crop	Low, Medium, High
➤ Knowledge & Adoption level of ICT tools user on Chickpea pod borer	Low, Medium, High
➤ Decision making ability of ICT users regarding chickpea crop	Low, Medium, High
➤ Capacity building of chickpea growers regarding Pod borer	Low, Medium, High
➤ Constraint faced by ICT users regarding sent messages about chickpea pod borer	Frequency, Percentage & Rank

OFT- 18

Crop / Enterprise	Major crops of the district
Title of on farm trial	Assessment of adoption level towards Soil Health Cards in farming community
Problem diagnosed	Poor knowledge about Soil Health Cards and their importance
Farmers' Practices	Inappropriate use of Soil Health Card recommendation
Details of technologies selected for assessment	T ₁ : Inappropriate use of Soil Health Card T ₂ : Use of Soil Health Card based recommendation
No. of farmers	50
Total cost	6500
Critical input	Appropriate use of Soil Health Card recommendation
Performance indicators:	Unit
Parameters	➤ Adoption level ➤ Knowledge level ➤ Perception ➤ Constraints ➤ Feedback

OFT- 19

Crop / Enterprise	Blackgram
Title of on farm trial	Assessment of ICT intervention used by farmers regarding insect pest management in Blackgram
Problem diagnosed	Delayed and lack of audio visual based technical information delivery regarding Pod borer in Blackgram
Farmers' Practices	No use of visual based ICT intervention regarding insect pest management in Blackgram

Details of technologies selected for assessment	Share the agricultural practices on visual based ICT intervention like audio, video, text message and photographs etc. regarding insect pest management in Blackgram
No. of farmers	50
Total cost	6500
Critical input	ICT based messages
Performance indicators:	Unit
➤ Content of the message	No.
➤ Time of the message sent	Low, Medium, High
➤ Type of message	Low, Medium, High
➤ Need based message	Low, Medium, High
➤ Adoption level of message	Low, Medium, High
➤ Knowledge level of message	Low, Medium, High
➤ Farmers feedback	Frequency, Percentage & Rank

OFT- 20

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of effectiveness of visual based social media for dissemination of agriculture technologies in Soybean
Problem diagnosed	Lack of technical knowledge among farmers
Farmers' Practices	No use of social media
Details of technologies selected for assessment	Use of visual based social media
No. of farmers	50
Total cost	6500
Critical input	ICT based messages
Performance indicators:	Unit
➤ Profile of What's app user	No.
➤ Management practices of Soybean crops	Low, Medium, High
➤ Factors affecting the smooth functioning of what's app group	Low, Medium, High
➤ Knowledge & adoption level of what's app user regarding soybean crop	Low, Medium, High
➤ Attitude of what's app users regarding soybean crop	Favourable, High Favourable and Unfavourable
➤ Decision making ability of what's app users regarding soybean crop	Low, Medium, High
➤ Constraints faced by what's app users regarding sent messages of soybean crop through pre tested questionnaire and interview schedule	Low, Medium, High Frequency, Percentage & Rank

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:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of ginger due to high incidence of Rhizome Rot disease
Thematic area:	IDM
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 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 2024
Date of harvesting:	1-15 December 2024
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	-
Recommendations for Deptt. Personnel	-
Feedback	-

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:	2024/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:	10
No. of farmers involved	10
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 2024
Date of harvesting:	1-10 October 2024
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:	2024-25/Rabi
Farming situation:	Semi-irrigated
Problem diagnosis:	Low yield of chickpea due to incidence of collar rot disease
Thematic area:	IDM
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 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 2024
Date of harvesting:	25-30 March 2025
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:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of onion due to incidence of Purple Blotch disease
Thematic area:	IDM
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 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 2024
Date of harvesting:	15-30 April 2025
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:	2024-25/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of turmeric due to No use of mulching.
Thematic area:	HOV
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 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 2024
Date of harvesting:	March 2025
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	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:	10
No. of farmers involved	10
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 2024
Date of harvesting:	October 2024
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:	10
No. of farmers involved	10
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 2024
Date of harvesting:	February 2025
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 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Flower due to use of old variety (Deshi Hajariya)
Thematic area:	HOV
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-	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 2024
Date of harvesting:	January 2025

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 2024
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:	10
No. of farmers involved	10
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 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of soybean due to no use of sulphur fertilizer
Thematic area:	Soil Fertility 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 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 2024
Date of harvesting:	September 2024
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 2024-25
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:	10
No. of farmers involved	10
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 2024
Date of harvesting:	March 2025
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 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low quality yield due to deficiency of Zinc micronutrient
Thematic area:	Nutrient 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 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:	November 2024
Date of harvesting:	March 2025
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:	2024-25/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:	10
No. of farmers involved	10
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 2024
Date of harvesting:	October 2024
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	-

OFT-14

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Integrated nutrient management in Paddy crop

Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of paddy due to imbalanced use of fertilizer
Thematic area:	Nutrient 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 seed treatment, Imbalance use of Fertilizers (Urea 100 kg/ha and DAP 100 kg/ha)
T2 –Recommended Practice-	Seed treatment with <i>Azotobacter</i> and PSB @ 10gm/kg seed, application of RDF N:P:K (100:60:40 kg/ha) (STV based)
T3- Recommended Practice-	Seed treatment with <i>Azotobacter</i> and PSB @ 10gm/kg seed, application of BGA @ 10 kg/ha, 70 % RDF (STV based), application of Zinc as per need
Date of sowing:	June- July 2024
Date of harvesting:	Nov-Dec 2024
Source of technology:	JNKVV 2015
Characteristics of technology:	Nutrient management
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-15

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Nano DAP and application of balanced fertilizers on growth and yield of Lentil crop
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Lentil due to imbalance use of fertilizers
Thematic area:	INM
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 Seed treatment with Nano DAP and imbalance use of DAP @ 100 kg/ha
T2 –Recommended Practice-	Seed treatment with Nano DAP @ 5ml/kg seed, application of 100% RDF (N:P:K:S 20:50:20:20) (Soil test value based)
T3- Recommended Practice-	Seed treatment with Nano DAP @ 5ml/kg seed, 50% of RDF as basal dose and 2 foliar spray of Nano DAP@ 4ml/lit of water at 30 and 60 DAS
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	IIFCO 2019
Characteristics of technology:	Nutrient management
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-16

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of foliar application of Boron micronutrient on growth, yield and quality of tomato crop
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Fruit cracking in tomato
Thematic area:	Nutrient 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 use of boron micronutrient in tomato crop
T2 –Recommended Practice-	Foliar application of Boron (20 % EDTA) @ 2.0 gm/lit of water prior to fruit setting
T3- Recommended Practice-	-
Date of sowing:	Nov-Dec 2024
Date of harvesting:	Feb-March 2025
Source of technology:	IISS Bhopal, 2016
Characteristics of technology:	Micro nutrient management
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: OFT-1

Title	Assessment of effectiveness of ICT based messages used by farmers regarding protection from Pod borer in Chickpea
Season & Year	Rabi 2024
Problem identified	The major problems to the farmers is delayed and lack of audio visual based technical information delivery regarding Pod borer in Chickpea
Thematic Area	ICT
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
➤ Profile of ICT User	No.
➤ Pod borer management practices in Chickpea crops	Low, Medium & High
➤ Knowledge & Adoption level of ICT tools user on Chickpea pod borer	Low, Medium & High
➤ Decision making ability of ICT users regarding Chickpea crop	Low, Medium & High
➤ Capacity building of Chickpea growers regarding Pod	Freq. Percentage & Rank

borer ➤ Constraints faced by ICT users regarding sent messages about Chickpea Pod borer	

OFT-2

Title	Assessment of adoption level towards Soil Health Card (SHC) in farming community
Season & Year	2024
Problem identified	Poor knowledge about SHC and their importance
Thematic Area	TOT
Farming situation	Rainfed/Irrigated
Name of Technology Intervention under study	T1: Un appropriate use of SHC T2 Use of SHC based recommendation
Farmers Practice	Un-appropriate use of SHC recommendation
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Adoption level ➤ Knowledge level ➤ Perception ➤ Constraints ➤ Feedback	

OFT-3

Title	Assessment of ICT Intervention used by farmers regarding Insect management in Blackgram
Season & Year	Kharif 2024
Problem identified	Delayed and lack of audio visual based technical information delivery regarding Insect management in Blackgram Crop
Thematic Area	ICT
Farming situation	Irrigated
Name of Technology Intervention under study	Shared agricultural practices on Visual Based ICT Intervention regarding Insect management in Blackgram
Farmers Practice	No use of visual based ICT intervention regarding Insect pest management in Blackgram
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Content of the message ➤ Time of the message sent ➤ Type of message ➤ Need based message ➤ Adoption level of message ➤ Knowledge level of messages ➤ Farmer’s feedback	No. Low, Medium & High Low, Medium & High Low, Medium & High Low, Medium & High Freq. Percentage & Rank

OFT-4

Title	Assessment of Effectiveness of Visual Based Social Media ‘for Dissemination of agriculture technologies in Soybean
Season & Year	Kharif 2024
Problem identified	Lack of technical knowledge among Farmers
Thematic Area	ICT
Farming situation	Irrigated
Name of Technology Intervention under study	Use of Visual Based Social Media
Farmers Practice	No use of Social media
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
➤ Profile of WhatsApp user ➤ Management practices of Soybean crops ➤ Factors affecting the smooth functioning of what’s app group ➤ Knowledge & Adoption level of WhatsApp user Soybean crop ➤ Attitude of WhatsApp users regarding Soybean crop ➤ Decision making ability of WhatsApp users regarding Soybean crop ➤ Constraints faced by WhatsApp users regarding sent messages Soybean crop through pre tested questionnaire, interview schedule	No. Low, Medium & High Low, Medium & High Low, Medium & High Low, Medium & High Freq. Percentage & Rank

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 2024	04	10	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	Carbendazim + Thiram, Metalaxyl + Mancozeb	Kharif 2024	04	10	Disease incidence (%), No. of pods /plant, Yield q/ha,

			the onset of disease					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, <i>Trichoderma</i>	Rabi 2024-25	04	10	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 2024-25	04	10	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 2024	02	10	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 2024-25	02	10	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 2024-25	02	10	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 2024	02	10	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 2024	04	10	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 2024	04	10	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 2024-25	04	10	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 2024-25	04	10	No. of tillers/sq. meter, Yield kg/ha, Economics (Net returns and B:C ratio)
13	Greengram	Extension	Impact of visual based technical information dissemination through social media ICT – Tools in Greengram Crop		Kharif 2024		50	Socio economic Profile of What's app users, Knowledge level of What's app user, Adoption level of WhatsApp user, Attitude of farmers towards WhatsApp uses, Decision making of crop grower WhatsApp users
14	Pigeonpea	Extension	Impact of visual based technical information dissemination through social media in Pigeonpea		Kharif 2024		50	-do-
15	Mustard	Extension	Impact of visual based technical information dissemination through social media in Mustard Crop		Rabi 2024-25		50	-do-

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 2024	4	10	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 2024	4	10	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 2024-25	4	10	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 2024-25	4	10	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

Nil

Details of FLDs on Agriculture Engineering implemented during Jan-2023 to Dec-2023

Nil

[illegible]

Livestock Enterprises Nil

Details of FLDs on Animal Science implemented during Jan-2023 to Dec-2023

[illegible]

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 (2024-25)

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 2024	100	250	No. of effective nodules/plant, No. of pods/plant Yield kg/ha, Economics (Net Returns &B:C ratio)
2	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 2024	30	75	No. of siliqua/plant, Yield kg/ha, Economics (Net Returns &B:C ratio)
3	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 2024-25	80	200	No. of siliqua/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	3	September to December	120
2	Farmers Training	6	June to December	150
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

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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
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	1	1							25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Efficiency									
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
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	1	1							25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
bio control agents and bio pesticides									
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
X Capacity Building and - Group Dynamics									
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
Total	0	0							0
XII Others (Pl. Specify)									
Grand Total	31	1							775
(B) RURAL YOUTH									
Mushroom Production	1	3							15
Bee-keeping									
Seed production									
Planting material production	1	3							15
Vermi-culture	1	3							15
Value addition									
Sheep and goat rearing									
Para extension workers									
TOTAL	3	3							45
(C) Extension Personnel									
Productivity enhancement in field crops	1	1							15
Integrated Pest Management	1	1							15

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Integrated Nutrient management	1	1							15
Protected cultivation technology	1	1							15
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)									
TOTAL	4	1							60

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									
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	1	1							25

plants/orchards									
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	0	0							0

rural Women									
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 and diseases	3	1							75
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:

[illegible]

[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)[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	8									200
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)	10									700
Others (pl. specify)	-									-
Total	230									110280

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

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 Beneficia ries
					Unit (kg/qt./liter/ no)	Qty.		
1	Dairy animals	Cow	-	-	-	-	-	-
		Calves	-	-	-	-	-	-
		Goats	-	-	-	-	-	-
		Buffaloes	-	-	-	-	-	-
		Sheep	-	-	-	-	-	-
		Breeding bull	-	-	-	-	-	-
		Other (pl specify)	-	-	-	-	-	-
2	Poultry		Bundelkhandi and Narmada Nidhi	Cocks and Eggs	-			
		Poultry						
		Japanese quail	-	-	-	-	-	-

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.		
3	Piggery	Japanese quail eggs	-	-	-	-	-	-
		Ducks	-	-	-	-	-	-
		Turkey	-	-	-	-	-	-
		Other	-	-	-	-	-	-
		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 2024	Quarterly	500
April to June 2024	Quarterly	500
July to September 2024	Quarterly	500
October to December 2024	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
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 farmer/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	Jaruapur	Panna	12-14
10	Janwar	Panna	12-14
11	Gukhour	Panna	28-30
12	Sildhara	Panna	30-32
13	Umari	Panna	26-28
14	Pratappur	Ajaygarh	24-26
15	Tarauni	Ajaygarh	30-32
16	Kiratpur	Ajaygarh	50-60
17	Salaiya	Ajaygarh	40-45
18	Magrailakhurd	Gunour	30-32
19	Bhilsay	Gunour	26-28
20	Vikrampur	Gunour	28-30
21	Siri	Gunour	34-36
22	Dwari	Gunour	28-30
23	Sakatpura	Gunour	20-22
24	Jaswantpura	Gunour	22-24
25	Patnatamoli	Gunour	50-55
26	Richhi	Pawai	70-75
27	Birasan	Pawai	68-70
28	Barho	Pawai	60-70
29	Shahpurkhurd	Shahnagar	96-98
30	Sijhati	Shahnagar	94-96
31	Gangajhiriya	Shahnagar	80-90

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	62 Farmers, 4.8 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	62 Farmers, 4.8 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 Nidhi and Kadaknath breeds	7.5	-
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 2024

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.2023)

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	3700-6700	25.06.2010	2010	9425124291	pandeypadra@gmail.com	
2	Subject Matter Specialist	Sh. A.K. Patel	Scientist	Soil Science.	1560-3910	24.01.07	2007	8817052396	akhileshpateljnkvv@gmail.com	
3	Subject Matter Specialist	Dr. C.J. Singh	Scientist	Food Tech.	1560-3910	24.01.07	2007	9893064376	chander30@jnkvv.org	
4	Subject Matter Specialist	Dr. Kinjulk C. Singh	Scientist	Agri. Ext.	1560-3910	31.01.09	2009	9424606863	kingsingh19@jnkvv.org	
5	Subject Matter Specialist	Dr. Rajesh Singh	Scientist	Horticulture	1560-3910	24-01-07	2007	9424620540	rajeshsinghjnkvv@yahoo.com	
6	Subject Matter Specialist	Dr. Akhilesh Kumar	Scientist	Entomology	1560-3910	01.11.11	2011	9424744455	akhilivr@jnkvv.org	
7	Subject Matter Specialist	Dr. Smita Singh	Scientist	Agronomy	1560-3910	03.10.2017	2017	8120076669	sapanapuat@jnkvv.org	
8	Programme Assistant	Dr. Sanjay Singh	Senior technical officer	Agri. Ext.	1560-3910	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 Machanic	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):25

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, 2024- Dec., 2024)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	10.0	31.7	4.2
Feb, 23	0.0	34.8	5.4
Mar, 23	37.5	36.4	12.7
Apr, 23	13.4	42.9	16.5
May, 23	57.0	43.4	17.1
Jun, 23	61.0	43.2	23.3
July, 2023	353.0	38.1	19.0
Aug., 2023	318.0	36.2	14.2
Sept., 2023	41.0	37.3	20.5
Oct. 2023	0.0	36.8	18.8
Nov. 2023	13.5	33.8	12.2
Dec. 2023	7.0	26.2	11.1

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 (2023)

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	Improved farming practices, INM, IWM, IPM,

3.	Sirmour	Sirmour	Godha, Tilkhan, Khair	Rice, Wheat, Black gram, Chickpea, Dairy	required 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
125	3704	68	2221

Seed Production (Qtl.)	Planting material (Nos.)
1030	439

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	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. 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	1	Improved crop management	Rice	Labour cost high and seedlings are exposed to	Assessment of herbicide in rice crop under direct	-	Strategies to improve	Awareness for direct seeded rice	Awareness for direct seeded rice

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:	2024/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:	2024/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:	2024/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 maintenance 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 in Rice crop under direct seeded rice
Year/Season:	2024/Kharif
Farming situation:	Semi-irrigated
Problem diagnosis:	Low yield of Rice due to no use for appropriate herbicide
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-	Application of pendimethalin 37.7% 1 kg a.i./ha at 0-3 DAS
T2 –Recommended Practice-	Application of Bispyribac sodium at 15 DAS @ 30g a.i./ha
T3- Recommended Practice-	Application of Bispyribac sodium at 15 DaS @ 30g a.i./ha followed By fenoxaprop ethyl 60 kg/ha
Date of sowing:	25-30 June 2024
Date of harvesting:	25-30 October 2024
Source of technology:	ISWS 2012
Characteristics of technology:	Cost effective
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:	2024/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:	2024/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	Horticulture
Title of on-farm trial:	Assessment of high density planting of mango var. Amrapali
Year/Season:	Annual 2023
Farming situation:	Semi-irrigated
Problem diagnosis:	Low productive old mango 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-	Farmers are doing 10x10 m planting
T2 –Recommended Practice-	Closer planting (2.5x2.5 m pp-rr)
T3- Recommended Practice-	3.5mx3.5 m
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	Closer planting (2.5x2.5m pp-rr) 3.5 x 3.5m pp-rr)
Name of Crop/Enterprises:	Mango
Recommendations for Farmers	High density planting
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Pomegranate plantation in wasteland
Year/Season:	Kharif ,2023
Farming situation:	Rain fed
Problem diagnosis:	Non Productive wasteland
Thematic area:	IFS
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 use of wasteland
T2 –Recommended Practice-	Plantation of Pomegranate (Bhagawa) for utilization of wasteland at distance 3x3 m
T3- Recommended Practice-	Mridula on wasteland
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, 2009
Characteristics of technology:	Suitable for wasteland development and no fruit cracking.
Name of Crop/Enterprises:	Pomegranate
Recommendations for Farmers	Plantation of Pomegranate variety Bhagawa on wasteland
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:	2024
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:	17-07-2024
Date of harvesting:	14-11-2024
Source of technology:	IGKV 2016 & Patanjali Haridwar.
Characteristics of technology:	Eco-friendly, cost effective easily available of required input.
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:	2024
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/m² 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:	12-08-2024
Date of harvesting:	24-09-2024
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:	Minimise the use of chemicals, low cost eco-friendly
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:	2024
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:	17-07-2024
Date of harvesting:	12-11-2024
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:	Through this module one can minimizes the non-judicious use of chemical fertilizers and resulted in input reduction also. In this way farmers can be benefitted by both ways viz: health as well remuneration.
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 IDM wilt disease in lentil
Year/Season:	2024-25/ Rabi
Farming situation:	Rainfed
Problem diagnosis:	Heavy incidence of wilt disease in lentil affected area 16 thousand ha.
Thematic area:	IDM
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-	T 1- Non adoption of plant protection measures.
T2 –Recommended Practice-	T 2 - Seed treatment with Tebuconazole 2% DS
T3- Recommended Practice-	T 3 – Soil application of <i>Psudomonas fluorescence</i> in enrich FYM + application of Zn and Mn salt at 80 ppm concentration on presoaked seed.+ Late sowing at proper depth 10-12 cm.
Date of sowing:	24-10-2024
Date of harvesting:	02-03-2024
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>. Journal of Pharmacognosy and Phytochemistry 2018; 7(5): 2320-2323.
Characteristics of technology:	Minimise chemical application, eco-friendly
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Crop / Enterprise	Plant Protection
Title of on farm trial	Assessment of integrated wilt disease with organic management in Chickpea
Problem diagnosed	Due to damage in chickpea by yield reduce up to 35-45%
Farmers' Practices	No use of organic fungicide
Details of technologies selected for	T ₁ Seed treatment with Carbendazim 12% +Mancozeb 63% WP 2g/kg of seed and

assessment		soil application of T. viride @ 5 lt/ha multiplied in 100 kg FYM
	T ₂	Seed treatment with Carboxin 37.5% + Thiram 37.5%(3g/kg) + Soil treatment with T. viride @ 5 lt/ha multiplied in 100 kg Vermicompost
	T ₃	Rows can be added if necessary
Source of technology	JNKVV-2007	
Plot size	0.20 ha	
No. of farmers	10	
Total cost	3800	
Critical input	Fungicides, Biopesticides and vermicompost	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	1. % disease incidence 2. Yield (Q/ha) 3. Benefit Cost Ratio	

Crop / Enterprise	Plant Protection	
Title of on farm trial	Assessment of Biological insecticides for management of leaf miner in Hybrid Tomato	
Problem diagnosed	Due to damage in Tomato by yield reduce up to 35-40%	
Farmers' Practices	No use of IPM	
Details of technologies selected for assessment	T1	Spraying of NSKE (4 %) at 10 days interval of insect infestation
	T2	Two foliar spray of Spinosad 45 SC 150 ml /ha at 20 days after planting second spray is at 45 days
	T3	Rows can be added if necessary
Source of technology	IIVR 2015	
Plot size	0.20 ha	
No. of farmers	05	
Total cost	6000	
Critical input	NSKE, Spinosad	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	1. No. of Larvae/m ² 2. Yield (Q/ha) 3. Benefit Cost Ratio	

Crop / Enterprise	Plant Protection	
Title of on farm trial	Assessment of IPM modules for the organic management of Tobacco caterpillar in Black gram	
Problem diagnosed	Low yield due to severe insect pests infestation (35-40%)	
Farmers' Practices	No use of IPM modules	
Details of technologies selected for assessment	T1	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
	T2	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
	T ₃	Rows can be added if necessary
Source of technology	NCIPM 2014	
Plot size	0.40	
No. of farmers	05	
Total cost	5000	
Critical input	Pheromone trap, LED bulb, Bt and Spinosad	
Performance indicators: (ix) Growth and Yield attributes (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	1. No. of larvae/plant 2. Yield (q/ha) 3. Benefit Cost Ratio	

Crop / Enterprise	Plant Protection	
Title of on farm trial	Assessment of cow urine mixed with tobacco soaked water in the management of Okra pests	
Problem diagnosed	Low yield due to severe insect pests infestation (35-40%)	
Farmers' Practices	No use of IPM modules	
Details of technologies selected for assessment	T1	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
	T2	
	T ₃	Rows can be added if necessary
Source of technology	Mishra, Anupam, Singh, S.R.K., Raut, A.A. (2020). Traditional Knowledge in Agriculture.(15)	
Plot size	0.20	
No. of farmers	05	
Total cost	3000	
Critical input	Tobacco, Cow urine	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment generation	1. No. of larvae/plant 2. Yield (q/ha) 3. Benefit Cost Ratio	

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Zinc and liquid bio fertilizer Azospirillum in Rice
Year/Season:	Kharif, 2024
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:	-
Date of harvesting:	-
Source of technology:	JNKVV, 2017
Characteristics of technology:	Nutrient management on Soil test value
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	--
Feedback	-

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of sulphur & Liquid bio fertilizer PSB in pigeon pea
Year/Season:	Kharif, 2024

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:	-
Date of harvesting:	-
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	Soil Science
Title of on-farm trial:	Assessment of Vermicompost and Azotobacter in Wheat
Year/Season:	Rabi, 2024
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:	-
Date of harvesting:	-
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	Soil Science
Title of on-farm trial:	Assessment of sulphur and liquid bio fertilizer in mustard
Year/Season:	Rabi, 2024
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:	-
Date of harvesting:	-
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: 1

Title	Assessment of awareness and adoption of low cost water harvesting technology (III Year)
Season & Year	2024
Problem identified	Decreasing water table due to increasing use of water in agriculture
Thematic Area	NRM
Farming situation	All
Name of Technology Intervention under study	Improved low cost water harvesting technology
Farmers Practice	No use of water harvesting technology
No. of replication (Farmers)	120

Results / findings

Performance indicators/ parameters	Unit/ details
Extent of Awareness and Extent of Adoption of low cost water harvesting technology	%

Information about Extension OFT: 2

Title	Assessment of you tube videos in Dissemination of specific and Targeted Technology (II Year)
Season & Year	2024 (Kharif)
Problem identified	Delay and inaccuracy in information dissemination
Thematic Area	ICT
Farming situation	Rainfed
Name of Technology Intervention under study	Videos based on Location specific technology in Hindi
Farmers Practice	Use of traditional system of extension for information /Non availability of ready to use extension material as per will of farmer.
No. of replication (Farmers)	120

Results / findings

Performance indicators/ parameters	Unit/ details
Frequency of use, retention, watch time, source of information	Hours and %

Information about Extension OFT: 3

Title	Assessment of adoption of Low cost input Management technologies for DFI (II Year)
Season & Year	2024-Rabi
Problem identified	Decreasing returns due to increasing input cost in crop production.
Thematic Area	DFI
Farming situation	
Name of Technology Intervention under study	Low cost input management technologies described under DFI
Farmers Practice	Use of costly of input .
No. of replication (Farmers)	120

Results / findings

Performance indicators/ parameters	Unit/ details
Input Management – Resource Use Efficiency / Total Factor Productivity (TFP)	% and Kg

Information about Extension OFT: 4

Title	Comparative Assessment of knowledge Gap and adoption gap regarding soil health card based fertilizer application among FLD and Non FLD farmers. (II Year)
Season & Year	2024
Problem identified	Low adoption of SHC recommendation
Thematic Area	NRM/SHC
Farming situation	
Name of Technology Intervention under study	Soil health card based fertilizer application.
Farmers Practice	Non use of SHC recommendation
No. of replication (Farmers)	200

Results / findings

Performance indicators/ parameters	Unit/ details
knowledge Gap and adoption gap	%

Title	Assessment of adoption pattern of natural farming
Season & Year	2024
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	2024
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	2024
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, Vermicompost, 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	2024
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:	2024
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/ Refinement):	Assessment
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:	2024
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 Depts. Personnel	-
Feedback	-

Title of on-farm trial:	Assessment of suitability of Kodo to improve the nutrition status of the farm family
Year/Season:	2024
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 Depts. 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:	2024
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/2024	04	10	Seed yield q/ha and B:C ratio
2	Sesame	ICM	HYV GT 6 308,Seed treatment with carbendazim @ 2 gm /Kg seeds+ PSB Culture @ 5 gm / Kg seeds + Imidacloprid@ 1 ml/ lit water for pest management	Seed	Kharif/2024	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	Seed	Kharif/2024	04	10	Seed yield q/ha and B:C ratio

			weed management by pinoxaden 5.0EC@ 100ml/ha STV based INM, line sowing					
4	Mustard	ICM	HYV RH 725, Line sowing(recommended dose of fertilizer: 80 kg N, 40 kg P ₂ O ₅ 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 forinsect mangement	Seed	Kharif/2024	04	10	Seed yield q/ha and B:C ratio
5		PLP/Natural	Performance of Honeybee pollination in natural production of Mustard crop	Bee box with honey bees	Rabi/2024-25	0.5	02	Yield (q/ha) and B:C ratio
6		PLP	Performance of IPM modules for the management of BPH in Rice	Pheromone trap, Light trap and insecticide	Kharif/2024	02	05	1. No. of insects/hills 2. Yield (q/ha) 3. Benefit Cost Ratio
7	Maize	SFM	Performance of nutrient management and Azospirillum in maize crops	Liquid bio fertilizer	Khafir-2024	01	05	Yield, Net income and B:C ratio
8	Rice	INM	Performance of integrated nutrient management in rice	Liquid bio fertilizer	Kharif-2024	01	05	Yield, Net income and B:C ratio
09	Mustard	SFM	Performance of sulphur, vermin compost and potash solubilizing bacteria in mustard crop	potash solubilizing bacteria	Rabi-2024	01	05	Yield, Net income and B:C ratio
10	Wheat	INM	Performance of integrated nutrient management and vermin compost in wheat	Vermi compost	Rabi 2024	01	05	Yield, Net income, number of tillers per plant and B:C ratio
11		NRM	Performance of Wall Paintings for Improving Technical Knowledge of Farmers regarding NRM (I Year)	Technical massages on walls	2024		90	Awareness, Retention of information and Improvement in knowledge
12		Nutri Sensitive Agriculture	Enhanced volume and increased variety of seasonal	High Yielding Varietal Seeds and	2024	200 sqm .	10	-

			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.	Hybrid Seeds				
13		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	2024	200 sqm .	10	-
14		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 .	2024	250 sqm .	10	-
15		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.	2024			
16		Income Generation	Improved variety of marigold with big sized and attractive colour fetches good market price and helps women in generating income through its cultivation and marketing.	Improved variety of marigold.	2024	1000 sqm .	10	Income Generation. (Rs. and p.)
17	Rice	IDM	Performance of IDM module for the management of false smut disease in Rice. (Early transplanting by 10 days+ Weed	Propiconazole (13.9 %) + Difenconazole (13.9%)	2024	4	10	Assess grain quality apart from other parameters

			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%)					
18	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 followed by Agaricus musrhoom and Oyster mushroom.</i>)	Spawn	2024		10	Economic analysis
19	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	2024	04	10	Disease incidence percent, No of infected panicle/sqm ., Yield parameters
20	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 2024	04	10	No of infected plant/ sqm, PDI, Yield Parameters

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 (2024-25)

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/2024	100	250	Seed yield q/ha and B:C ratio
2	Pigeonpea	ICM	Raised bed	Seed,Vermicom post	Kharif/2024	100	250	Seed yield q/ha and B:C ratio
3	Soybean	ICM	Raised bed	Seed,Vermicom post	Kharif/2024	40	100	Seed yield q/ha and B:C ratio
4.	Lentil	ICM	Raised bed	Seed,Vermicom post	Rabi/2024	20	50	Seed yield q/ha and B:C ratio
5.	MUSTARD	ICM	Line sowing	Seed,Vermicom post	Rabi/2024	130	225	Seed yield q/ha and B:C ratio
6.	Linseed	ICM	Line sowing	Seed,Vermicom post	Rabi/2024	30	75	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	115

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
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 pesticides	2	1	24	0	24	1		0		01
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										

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		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
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

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 techniques	2	1	10	5	15	10	5	15	30
Value addition	2	1	10	5	15	10	5	15	30
Income generation activities for empowerment of rural Women	2	1	10	5	15	10	5	15	30
Location specific drudgery reduction technologies	2	1	10	5	15	10	5	15	30
Rural Crafts	2	1	10	5	15	10	5	15	30
Women and child care									
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	2	1	10	5	15	10	5	15	30
Integrated Disease Management	2	1	10	5	15	10	5	15	30
Bio-control of pests and diseases	2	1	10	5	15	10	5	15	30
Production of bio control agents and bio pesticides	2	1	10	5	15	10	5	15	30
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development	2	1	10	5	15	10	5	15	30
Group dynamics	2	1	10	5	15	10	5	15	30
Formation and Management of SHGs	2	1	10	5	15	10	5	15	30
Mobilization of social capital	2	1	10	5	15	10	5	15	30
Entrepreneurial development of	2	1	10	5	15	10	5	15	30

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										
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

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										
Plant Protection	Rural Youth	Small Mushroom Growers	25	5	5	10	10	5	15	25

[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									
Kisan Mela	02									
Kisan Ghosthi	10									
Exhibition	04									
Film Show	12									
Method Demonstrations	10									
Farmers Seminar	02									
Workshop	02									
Group meetings	05									
Lectures delivered as resource persons	25									
Newspaper coverage	100									
Radio talks	05									
TV talks	02									
Popular articles	20									
Extension Literature	05									
Advisory Services	48									
Scientific visit to farmers field	30									
Farmers visit to KVK	40									
Diagnostic visits	30									
Exposure visits	02									
Ex-trainees Sammelan	02									
Soil health Camp	01									
Animal Health Camp	01									
Agri mobile clinic	02									
Soil test campaigns	02									
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	01									
Mahila Mandals Conveners meetings	01									
Celebration of important days (specify)	05									
Others (pl. specify)										
Total										

Target for Production and supply of Technological products
SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	JR 206, JR 81	500
	Wheat	GW 322, HI 1544, GW 451	500
OILSEEDS	Soybean	JS 20 29	90
	Linseed	JLS 79	80
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

ANNUAL ACTION PLAN 2024

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. 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. S. Yadav	Sr. Scientist & Head	Horticulture	37400-67000	15.05.2012	15.05.2012	9425854876	ksyadav20@rediffmail.com	
2	Subject Matter Specialist	Dr S. K. Tiwari	Scientist	Agronomy	15600-39100	12-3-2007		88839096327	glorious.k@gmail.com	
3	Subject Matter Specialist	Dr. Mamta Singh	Scientist	Plant Breeding & Genetics	15600-39100	13.02.2007	13.02.2007	9424437033	mamta.jnkvv@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	-	-	-	--	--	--	--	--	--

	Matter Special ist									
7	Subjec t Matter Special ist	-	-	-	--	--	--	--	--	--
8	Progra mme Assista nt	Shri Dharmen dra Pratap Singh	Technical Officer	LPM	9300 - 3480 0	12.10.2 011	2021	8989157 368	Dharmendrasi ngh507@gmail .com	
9	Compu ter Progra mmer/ Progra mme Assista nt	Smt. Priya Choukas e	Program me Assistant	Compu ter	9300 - 3480 0					Attach other places
10	Farm Manag er	Shri Mayank Mehara	Program me Assistant	Food Scienc e	9300 - 3480 0					
12	Jr. Stenog rapher / Comp. Operat or	Shri Yogendra Baderiya	Stenogra pher	-	5200- 20200	09.10.20 17	09.10.20 17	8827184 481	yogendrabader iya@gmail.com	
13	Driver	Sh. Jagdish Vishwakarma	Driver	-	5200- 20200	08.07.20 08	08.07.20 08	9303943 941	-	
14	Driver	Sh. Sanjay Agarwal	Driver	-	5200- 20200	14.07.20 08	14.07.20 08		-	
15	Suppor ting staff	-	--	--	--	---	--	--	--	--
16	Suppor ting 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	573

		- magnesium. - These soils are very fertile and are useful in the cultivation of various types of crops	
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 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.	289
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, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	Jan, 2023	7.7	24.2
Feb, 23	Feb, 2023	0.0	30.4
Mar, 23	Mar, 2023	26.9	32.8
Apr, 23	Apr, 2023	28.9	36.5
May, 23	May, 2023	86.0	38.3
Jun, 23	Jun, 2023	214.3	36.8
July, 2023	July, 2023	336.8	31.6
Aug, 2023	Aug., 2023	173.2	29.2
Sept, 2023	Sept., 2023	172.1	31.4
Oct. 2023	Oct. 2023	0.0	30.9
Nov. 2023	Nov. 2023	1.8	29.7
Dec. 2023	Dec. 2023	1.7	24

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			
<i>Crossbred/ Indigenous</i>	--	--	--
Goats	108540	0.53 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	--	---	---
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 (2024)

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
22	220	19	190

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
70	1750	25	MASS

Seed Production (Qtl.)	Planting material (Nos.)
---	50000

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	4	--	1	--	4	--	--	--	--	9

Detailed Information about OFT: 1

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Kodo variety JK 137 as crop diversification with nutritional security (IInd year)
Year/Season:	2024/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 2024
Date of harvesting:	1st week of October 2024
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: 2

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of improved hybrid variety JRH 19 of Paddy as direct seeding (1st year)
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of paddy
Thematic area:	Improved variety
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-	Kranti

T2 –Recommended Practice-	JRH 19, Short duration , maturity 95-100 days, Av. yield 65-70 q/ha consumes less water & tolerant to disease.
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, Jabalpur, 2015
Characteristics of technology:	JRH 19, Short duration , maturity 95-100 days, Av. yield 65-70 q/ha consumes less water & tolerant to disease.
Name of Crop/Enterprises:	Maize
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 improved durum variety of Wheat DDW 47 in irrigated condition
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of JW 3288/GW
Thematic area:	Soybean –Wheat / Improved variety
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 3288
T2 –Recommended Practice-	Improved variety DDW 47 , maturity 118-121 days, yield 73-75 q/ha,, suitable for irrigated condition, rich sources of iron, protein, multiple disease resistant variety
T3- Recommended Practice-	-
Date of sowing:	First week of November 2024
Date of harvesting:	First week of April 2025
Source of technology:	IIWBR Karnal, 2020
Characteristics of technology:	Improved variety DDW 47 , maturity 118-121 days, yield 73-75 q/ha,, suitable for irrigated condition, rich sources of iron, protein, multiple disease resistant variety
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 4

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of improved variety of Chickpea JG 24. (1st year)
Year/Season:	2024/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to use of old variety JG 315,JG 16
Thematic area:	Soybean –Chickpea/ Improved variety
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-	JG 315, JG 16,JG 63
T2 –Recommended Practice-	Improved variety JG 24, maturity 110-115 days, yield 22-25 q/ha,, suitable for restricted irrigation condition
T3- Recommended Practice-	-
Date of sowing:	First week of November 2024
Date of harvesting:	First week of April 2025
Source of technology:	JNKVV Jabalpur 2020
Characteristics of technology:	Improved variety JG 24, maturity 110-115 days, yield 22-25 q/ha,, suitable for restricted irrigation condition
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 5

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Biofortified OP variety of Kashi Lalima (IOVR- 157) (1st year)
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Non biofortified variety and costly hybrid seed of Okra
Thematic area:	Varietal Improvement
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-	Green colour hybrid and non bio fortified variety grown (hybrid seed is very costly)
T2 –Recommended Practice-	Average yield 140-150 q/ha, medium tall and short

	internodes, colour red and purple, YVMV and OLCV resistant, suitable for zaid and Kharif, rich source of fiber Zn, B6, Mg, Anthocynine and phinolic compounds useful for diabetic and heart patient.
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR 2019
Characteristics of technology:	Average yield 140-150 q/ha, medium tall and short internodes, colour red and purple, YVMV and OLCV resistant, suitable for zaid and Kharif, rich source of fiber Zn, B6, Mg, Anthocynine and phinolic compounds useful for diabetic and heart patient.
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 6

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding heat tolerance Hybrid variety of tomato Saaho (TO -3251) (1 st year)
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield
Thematic area:	Varietal Improvement
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: HY Variety Abhilash
T2 –Recommended Practice-	T2: High yielding heat tolerant variety Saaho (TO -3251), Determinate , good keeping quality, greenish dark foliage , average yield 500 -800 q/ha, round shape , suitable for Kharif, Rabi and summer season in MP ,weight 80-100 g, maturity 65-70 days
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	Syngenta CO. 2019
Characteristics of technology:	High yielding heat tolerant variety Saaho (TO -3251), Determinate , good keeping quality, greenish dark foliage

	, average yield 500 -800 q/ha, round shape , suitable for Kharif, Rabi and summer season in MP ,weight 80-100 g, maturity 65-70 days
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 7

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of IWM in Soybean (1st year)
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to weed infestation
Thematic area:	Integrated 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 use of suitable IWM practices
T2 –Recommended Practice-	Diclosolum 84% WG @ 30 gm /ha as pre emergence
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR DWR Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	Soybean
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 8

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of IWM in Pigeonpea (1st year)
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to non use suitable Herbicide
Thematic area:	Integrated 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 use of suitable IWM practices
T2 –Recommended Practice-	Use of Pendimethalin (38.7%) Stormp xtra @ 600-700 ml/acre
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR DWR 2015
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 9

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Clodinofof Propargyl 15%+ Metsulfuron1% (WP) methyl (1st year)
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due weed infestation
Thematic area:	Integrated 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 use of suitable Herbicide for weed management
T2 –Recommended Practice-	Use of clodinofof propargyl + Metsulfuron methyl @ 160 gm per acre
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR DWR 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 10

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of HYV JG 24 of Chickpea
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Chickpea due to selection of unsuitable variety
Thematic area:	Crop 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 use of old & unsuitable Variety
T2 –Recommended Practice-	High yielding Variety RVG 204 Suitable for Mechanical harvesting
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV,2020
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT-11

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of INM in Cauliflower on STV (2nd year)
Year/Season:	2024/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 2024

Date of harvesting:	Month of September 2024
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: 12

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 (2nd 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 2024
Date of harvesting:	Month of November 2024
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: 13

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Nano urea spray in wheat crop . (2nd 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: 14

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of integrated nutrient management in Tomato.(2nd year)
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer
Thematic area:	vegetables /INM
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-	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 2024
Date of harvesting:	Last week of September 2024
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: 15

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of bypass Fat in high lactating Buffalo to enhance milk production (1st year)
Year/Season:	2024/Kharif
Farming situation:	-
Problem diagnosis:	Low milk production from high lactating buffaloes due to low dietary energy intake..
Thematic area:	Animal Nutrition 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 feeding bypass fat for lactating buffaloes
T2 –Recommended Practice-	Supplementing lactating animal with bypass fat @100g/animal /day for three month
T3- Recommended Practice-	-
Starting Date:	15 July 2024
Date of Compilation:	15 September 2024
Source of technology:	CAZRI-2014
Characteristics of technology:	Supplementing lactating animal with bypass fat @100g/animal /day for three month
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 16

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of African tall variety of maize fodder on milk production in lactating cattle
Year/Season:	2024/Kharif
Farming situation:	-
Problem diagnosis:	Low milk production due to lack of quality green fodder
Thematic area:	Animal Nutrition 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 feeding maize fodder , use of weeds
T2 –Recommended Practice-	Feeding of maize fodder @ 20 kg/animal/day up to 3 month
T3- Recommended Practice-	-
Starting Date:	5 July 2024
Date of Compiliation:	15 September 2024
Source of technology:	IGFRI, Jhansi 2012
Characteristics of technology:	concentrate mixture along with fodder @ 20 kg/animal/day up to 3 month
Name of Crop/Enterprises:	Cow
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 17

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Ca, P and Vit-D (Ostocalcium Vet)supplement in daily diets of buffalo during lactation period.
Year/Season:	2024-25/Rabi
Farming situation:	-
Problem diagnosis:	Due to deficiency of Ca, P and Vit-D milk production is decreased during lactation period due to deficiency of Ca, P and Vit-D
Thematic area:	LPM
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 use additional supplements

T2 –Recommended Practice-	Use 100 ml. calcium, Phosphorus and Vitamin D supplement per day in diet of animal just after calving for 60 days.
T3- Recommended Practice-	-
Starting Date:	15 November 2024
Date of Compilation:	15 January 2025
Source of technology:	IVRI, 2004
Characteristics of technology:	Use of 100 ml. calcium, Phosphorus and Vitamin D supplement per day in diet of animal just after calving for 60 days.
Name of Crop/Enterprises:	Cow
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 18

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Growth and Income through Balanced Nutrition in goat.
Year/Season:	20234-25 Rabi
Farming situation:	-
Problem diagnosis:	Poor growth, due to mineral deficiency in goat reared under semi intensive system
Thematic area:	LPM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use additional supplements
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 2024
Date of Compilation:	15 February 2025
Source of technology:	IVRI, Izzatnagar
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	-

Information about Home Science OFT: 19

Title of on-farm trial:	Assessment of biofortified varieties to reduced malnutrition (1st year)
Year/Season:	2024
Problem diagnosis:	Lack of knowledge for various Nutritional proportion in the biofortified varieties
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	02
No. of farmers/farm women involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of non biofortified varieties
T2 –Recommended Practice-	used Biofortified varieties (Pusa tejas-JW 8759)
Source of technology:	ICAR-New Delhi
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 20

Title of on-farm trial:	Assessment of multigrain sattu for nutritional security (1st year)
Year/Season:	2024
Problem diagnosis:	Lack of knowledge
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-	Used Normal wheat + chickpea Flour
T2 –Recommended Practice-	used Multigrain Sattu
Source of technology:	JNKVV, Jabalpur

Characteristics of technology:	
Name of Crop/Enterprises:	Multigrain
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 21

Title of on-farm trial:	Assessment of Value addition of Millets for income generation. (1st year)
Year/Season:	2024
Problem diagnosis:	Low sale price of Millets due to lack of processing and value addition
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-	Easley Not Available proportion of millets
T2 –Recommended Practice-	Use of Nutririch Millets
Source of technology:	ICAR-IIMR,Hadrabad
Characteristics of technology:	
Name of Crop/Enterprises:	Millets
Farming situation:	irrigated
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 22

Title of on-farm trial:	Assessment of Poly line super bags to reduced the infestation of stored pest during the storage of Wheat (1st year)
Year/Season:	2024
Problem diagnosis:	Heavy infestation of insect pest in wheat during storage

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-	Use of simple jute bags
T2 –Recommended Practice-	Use of polysuper bag
Source of technology:	Velmayil Enterprises
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	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 2024	02	10/10	Yield(q/ha), Pods/plant, B:C ratio
2	Blackgram	Integrated Crop management under natural farming system	Demonstration on natural farming (Beejamrut, Jeewamrut and Ghan Jeewamrut)	Plastic drum 200 lit and 100 lit, Jaggery and pulses flour @ 5 kg /500 lit	Rabi season 2023	02	10/10	Soil PH, EC (dS/m), SOM (%), OC (%), microbial biomass (Pre sowing and post harvest

Sl. No .	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
			under Blackgram-Chickpea/ Lentil cropping system in Sagar district	Seed of Blackgram (IPU2-43), + Jowar as intercropping				), number of pods /plant ,number of branches , yield ,Cost of cultivation , B:C
3	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 /2024-25	0.5	10/10	Plant height, number of umbel /plant , yield q/ha
4	lentil	Integrated Crop management under natural farming system	Demonstration on natural farming (Beejamrut ,Jeewamrut and Ghan Jeewamrut) under 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	Kharif 2023	02	10/10	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
5	Onion	Weed Management in onion crops	Demonstration of Mixed weedicides Quizalofop ethyl 4%+ Oxyflourfen 6% for the control of narrow and broad leaves in Onion. (Horticulture)	Quizalofop ethyl 4%+ Oxyflourfen 6% in combination @ 01 litre/ha	Rabi 2022-25	0.2	10/10	Weed infestation (%), Yield, wt of bulb (g), diameter of bulb(cm), B:C ratio, Farmer reaction
6	Okra	Organic based vegetable production.	Demonstration of organic based bio insecticides, <i>Verticillium laccini</i> & Neem oil for sucking types insects	VM resistant seed (2.5kg,) <i>Pseudomonas</i> / <i>Trichoderma</i> , <i>Verticillium laccini</i> , <i>Beauveria</i>	Rabi 2022-25	0.08	10/10	Yield (q/ha), length of fruit (cm), no. of fruits/plant and B:C Ratio etc

Sl. No .	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
			and <i>Beauveria basiana</i> for fruit borer management in Okra.	<i>basiana</i> & Neem oil as per need based .				
7	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	10/10	Siliqua/plant, plant height, yield q/ha
8	Urdbean	Crop Producti	Demonstration of raised bed planting of Urdbean	Technology of Raised bed Planting	Rabi 2023-24	02	10/10	Yield q/ha, Net Return Rs/ha, B:C ratio Nodules/Plant
9	Maize	Crop diversification	Demonstration of HYV Maize with improved crop management	Practices	Kharif/ 2023	02	10/10	No. of cobs/Plant
10	Mustard	Crop diversification	Demonstration of HYV of Mustard for crop diversification	HYV Mustard	2023-24	02	10/10	Days to Maturity
11	Moongbean	Crop Production	Demonstration of HYV MH 421 of Moongbean	Seed of Moongbean Var. MH 421	Rabi and 2023	02	10/10	Days to Maturity
12	Soybean	INM	INM in Soybean crop	Integrated nutrient management given better Use of Biofertilizers + 75% NPKS@ 20:50:20:20 kg/ha	Zaid /2023	02	10/10	No of Pods/plant ,Yield , B:C Ratio , availability of macro and micro nutrient
13	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%)	Rabi 2024-25	0.2	10/10	Bulb weight, number of cloves ,yield q/ha, B:C ratio

Sl. No .	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
14	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 2024-25		10/10	
15	Greengram	INM	Demonstration of biofertilizers in Green gram	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 /2024	2.0	10/10	Pods/plant(No) , yield (q/ha), B: C Ratio
16	All Seasonal leaf ,root Vegitable,fruits plants	Nutritional Security	Establishment of Nutritional kitchen garden for nutritional security	All Seasonal Vegitable,fruits plants	Round the year 2024	250 M ²	10/10	Nutrional facts each per plot according to body weight
17	Moringa	Nutritional Security	Demonstration of Maringa leaf powder for Anemic patient	Moringa Tree	Kharif/Rabi 2024-25	1500 Square Feet	10/10	Nutritional value in mooring , Protein, Fat, and other micro nutrient
18	Tomato	Value addition	Demonstration on value addition of tomato in the form of Sauce	Tomato ,preservative ,Sugar	Kharif/Rabi 2024-25	--	10/10	Income generation through SHGs & Farm

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
			and Ketchup through SHGs for income generation					Women's
19	Marigold	Income Generation	Demonstration on Marigold cultivation for income generation by farmwomen	Marigold hybrid Varieties	Kharif/Rabi 2024-25	5000 M ²	10/10	Income generation through hybrid varieties of Marigold

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	October 2024	50
2	Farmers Training	3	November 2024	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
Goat	Non Descript	10	10	concentrate mixture 15 kg each goat kid	Body Weight Gain , B:C ratio, Feedback, Farmers reaction	- -	--
Cow	Cross breed	10	10	Concentrate Pelleted feed for milch animals 1 to 2 Kg of milk production.	Increase Milk Production / Day/ Animal, Disease infestation rate of Animal	-	-
Cow	Cross breed	10	10	25gm/day/animal of Probiotics (SC) Yeast culture is feed (90 days)	Milk Production / Day/ Animal, % change Increase in Conception rate of Animal.	-	-
Poultry	Narmadanidhi	05	200	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 (2024-25)

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, insecticide imidacloprid 17.8 % FS 80 ml for each farmer	Kharif 2024	20	50/50	Pods/plant, plant height, yield q/ha, B:C ratio
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 2024	20	50/50	Pods/plant, plant height, yield q/ha, B:C ratio
3	Mustard	CP	Demonstration of improved variety of Mustard RH 725	Seed 2 kg, PSB, Azotobacter & Trichoderma 200 gm for seed treatment, Fungicide vitavax power 4 gm, Trichoderma 1 kg for soil treatment , insecticide imidacloprid 17.8 % FS 80 ml and yellow sticky trap 20 no. for each farmer farmer	Rabi 2024-25	20	50/50	Siliqua/plant, branches/plant, yield q/ha, B:C ratio
4	Lentil	CP	Demonstration of improved variety of Lentil RVL 11-6	Seed 18 kg, PSB, Rhizobium & Trichoderma 400 gm for seed treatment, Fungicide vitavax power 36 gm, Trichoderma 1 kg	Rabi 2024-25	20	50/50	Pods/plant, plant height, yield q/ha, B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

Training (Including the sponsored and FLD training programmes):

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Net etc.)									
Total	1	1	-	-	-	-	-	-	25
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	-	-	-	-	-	-	-	-	-
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	

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
TOTAL	--	--	--	--	--	--	--	--	--	--	--
(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	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	1	1	8	5	13	9	3	12	25

seed production									
Weed management in of kharif crop	1	1	8	5	13	9	3	12	25
Rouging Technique in Soybean for production of quality seed.	1	1	8	5	13	9	3	12	25
Cultivation Practices of Lentil and chickpea	1	1	8	5	13	9	3	12	25
Production Technology of Wheat and their improved varieties for different sowing conditions	1	1	8	5	13	9	3	12	25
Production technology of linseed	1	1	8	5	13	9	3	12	25
Rouging Technique in Rabi crop for production of quality seed.	1	1	8	5	13	9	3	12	25
Rouging Technique in Soybean for production of quality seed.	1	1	8	5	13	9	3	12	25
Total									
II Horticulture									
a) Vegetable Crops									
Rejuvenation of Desi Ber/ Jharberi (RY)	1	1	8	5	13	9	3	12	25
Vegetable Production technology of okra crop	1	1	8	5	13	9	3	12	25
Vegetable Production technology of Tomato crop	1	1	8	5	13	9	3	12	25
production technology and Weed management in onion crop	1	1	8	5	13	9	3	12	25
Radish production technology	1	1	8	5	13	9	3	12	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										
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	01	13	2	15	7	3	10	25

		during rainy season.								
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

[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	
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 soil testing and soil health card in agriculture production	01	13	2	15	7	3	10	25
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:

[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
Newspaper coverage	10	-	-	-	-	-	-	-	-	-
Radio talks	10	-	-	-	-	-	-	-	-	-
TV talks	3	-	-	-	-	-	-	-	-	-
Popular articles	8	-	-	-	-	-	-	-	-	-
Extension Literature	10	-	-	-	-	-	-	-	-	-
Advisory Services	8	-	-	-	-	-	-	-	-	-
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	Working condition
3	Microprocessor Flame Photometer	1	Working condition
4	Grinder, Rotary Shaker, Laboratory Steiner	1	Working condition
5	Digital pH Meter	1	Working condition
6	Hot Air Oven	1	Working condition
7	Digital Temp. Indicator	1	Working condition
8	Timer	1	Working condition
9	Pastel Mortar Fisher Type Agate	1	Working condition
10	Electronic Portable Balance	1	Working condition
11	Electronic Analytical Balance	1	Working condition
12	Refrigerator L.G.C..L 322 GP	1	Working condition
13	Two KVA UPS	1	Working condition

14	Two KVA Voltage Stabilizer	1	Working condition
15	Dermineraliser Part -I	1	Working condition
16	Dermineraliser Part-II	1	Working condition
17	Digital Conductivity meter ELICO	1	Working condition
18	Godrej Storewell Model Two	1	Working condition
19	Godrej Two door filling Cabinet	1	Working condition
20	Soil Testing lab Items		Working condition
i	Central Table Soil Chemistry lab (Two side operation) L- 12 * 34* 4 FW	1	Working condition
ii	Below central lab cabinet with sink L 12*3 ft *4 FW	1	Working condition
iii	Equipments units 16 ft. L * H 2.6 *2 Ft With 5 meter Top and Sink	1	Working condition
iv	Equipment cup board drawer and Sieves	1	Working condition
21	Office Lab Table (L shape) with dimension 4*4*2.6W	1	Working condition
22	Fixing of Aluminium Glass door	1	Working condition
23	6.No. adjustable lab stool and 4 No. ad-Chair	10	Working condition
24	Electronic items 6 M.C.B., 6 POWER POINT, 2 H Single gassver. 3 east to voumert top winsfor fitting	1	Working condition
25	Providing and fixing pelmet & cartons	6	Working condition
26	Nitrogen Estimation system	1	Working condition
i	Electronic automatic twelve place macro block digestion system model KES 12 L		Working condition
(a)	Accessories	12	Working condition
(b)	Model KES DTL -digestion tube (250ml.)	1	Working condition
(c)	Model KES 12 UR: 15.5 insert Rack for KES 12 L	1	Working condition
(d)	Model KES 12 L.E.M. Exhaust manifold with teflen	1	Working condition
27	Mrida Parikshak Soil Testing Mini Lab solar operated with shaker & Hot Plate (10 parameters)	1	Working condition
28	GPS Entrex 10	1	Working condition
29	Mrida Parikshak Soil Testing Mini Lab with shaker & Hot Plate (15 parameters)	1	Working condition

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	300	300	5	
Water Samples	-	-	-	-
Total	300	300	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, IPL 81, PL 8, RVL 31, RVL 11-6, L 4727, L 4717	Improved High yielding varieties	190
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)	Demonstration and	100	5000 suckers

production Unit	income generation		
Poultry Unit	Demonstration and income generation Kadaknath	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 2024

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.2023)

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	Vacant								
2	Subject Matter Specialist	Dr. Ashish Kumar Tripathi	Scientist	Plant Pathology	107200 AGP 8000	24.1.2007	19.11. 2019	9826241232	aktjnkvv@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	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	pdhurvey60@gmail.com	
10	Farm Manager	Vacant								
11	Assistant	Vacant								
12	Jr.	Vacant								

	Stenographer / Comp. Operator									
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	63194	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
Laptop	2023	56000	Good condition
Refrigerator	2023	120000	Good condition
Inverter and battery	2023	22000	Good condition

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

Sl. No.	Tentative Date
1	25.6.2024
2	25.10.2024

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	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

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
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,	Demonstration on management of bacterial wilt of brinjal	IDM in various crops	Integrated Disease management in Kharif and rabi crops	Field day	-
				Assessment of IDM module for Rhizoctonia Aerial blight diseases of Soybean					
				IDM for management of Sclerotial wilt in Lentil					

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 high yielding and Rhizoctonia areal blight disease resistant variety of Soybean JS 2172
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to RAB disease
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-	T1- JS 2034/ JS 9560
T2 –Recommended Practice-	T2- JS 2172
T3- Recommended Practice-	--
Date of sowing:	First week of July 24
Date of harvesting:	Second week of October
Source of technology:	JNKVV, Jabalpur 2023
Characteristics of technology:	Yield 20-22 q/ha, Resistant to Rhizoctonia areal blight disease

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

Detailed Information about OFT: 2

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of MYMV resistant variety of blackgram Kota-3 and IPU 13-1
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to MYMV disease
Thematic area:	Blackgram-Wheat, Improved Variety
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- Mixed seed of T 9 and Pratap urd-1
T2 –Recommended Practice-	T2- Blackgram variety Kota 3
T3- Recommended Practice-	T3- Blackgram variety IPU 13-1
Date of sowing:	First week of July 24
Date of harvesting:	Second week of October
Source of technology:	ARS Kota, 2021, IPU 13-1
Characteristics of technology:	Resistant of MYMV
Name of Crop/Enterprises:	Blackgram

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 3

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM in Okro
Year/Season:	Summer 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of hybrid variety due to poor crop management
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-	T1- Spray of insecticide on insect appearance
T2 –Recommended Practice-	T2- Seed treatment with Imidacloprid 48 FS, Blue/ Yellow sticky trap, <i>Beauvaria basiana</i> , Thiamethoxam + Lamdacyhalothrin
T3- Recommended Practice-	---
Date of sowing:	Second week of Feb 2024
Date of harvesting:	
Source of technology:	NCIPM, New Delhi
Characteristics of technology:	Reduce the population of insect and increased yield
Name of Crop/Enterprises:	Okra

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 4

Name of Discipline	Plant Pathology
Title of on-farm trial:	IDM for management of Sclerotial wilt in Lentil
Year/Season:	Rabi 2024-25
Farming situation:	Semi-irrigated
Problem diagnosis:	Low yield of lentil due to sclerotial wilt disease
Thematic area:	Blackgram-Lentil, IDM
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- Seed treament with Carbendazim + mancozeb
T2 –Recommended Practice-	T2-Seed treatment with <i>Trichoderma viride</i> and soil drenching with pseudomonas
T3- Recommended Practice-	T3-Summer ploughing, Seed treatment with <i>Trichoderma viride</i> and spray of mixed fungicide Capton+ Hexaconazole
Date of sowing:	Second week of October 24
Date of harvesting:	Second week of March 25
Source of technology:	ICARDA, 2020
Characteristics of technology:	Reduce the population of fusarium in soil
Name of Crop/Enterprises:	Lentil

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 5

Name of Discipline	Horticulture
Title of on-farm trial:	Integrated disease management of foliar disease of Tomato
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of imbalance fertilizer application Low yield due to foliar diseases i.e. Alternaria, Septariya
Thematic area:	Vegetable, 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-	T 1- Spray of Carbendazim + Mancozeb
T2 –Recommended Practice-	T2- Seed treatment, Soil application of <i>T. viride</i> , Spray of Chlorothalonil than Theophenate methyl + Staking
T3- Recommended Practice-	T3- Seed treatment, Soil application of <i>T. viride</i> , two spray of pre-mixed fungicide Theophenate methyl + Pyraclostrobin + Staking
Date of sowing:	First week of Nov 2024
Date of harvesting:	Second week of Jan 25
Source of technology:	NCIPM, New Delhi
Characteristics of technology:	Reduced the disease
Name of Crop/Enterprises:	Tomato

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 6

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding variety of <i>Kharif</i> Onion
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	
Thematic area:	Vegetable, 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-	T1 - N 53
T2 –Recommended Practice-	T2- NHRDF
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NHRDF Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 7

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding variety of Onion

Year/Season:	Late Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Onion due to old variety (N 53/ Nasik Red)
Thematic area:	Vegetable, IV
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 - N 53/ Nasik Red
T2 –Recommended Practice-	T2- NHRDF 4
T3- Recommended Practice-	T3- Bhima Shakti
Date of sowing:	September 24
Date of harvesting:	Dec 24
Source of technology:	NHRDF Indore
Characteristics of technology:	High yielding, suitable for kharif season
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 8

Name of Discipline	Horticulture
Title of on-farm trial:	Integrated nutrient management in Cauliflower
Year/Season:	Kharif 2024

Farming situation:	Irrigated
Problem diagnosis:	Low yield of imbalance fertilizer application
Thematic area:	Vegetable, 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-	T1- farmers practice -application of DAP (100 kg) and Urea (50 kg)
T2 –Recommended Practice-	T2- T1 + Biofertilisers i.e. Azatobactor, PSB, KSB
T3- Recommended Practice-	T3- T2 + Spray of Nano urea, Nano DAP at 30 and 40 days
Date of sowing:	First week of Aug 2024
Date of harvesting:	Second week of Oct 24
Source of technology:	JNKVV, Jabalpur and IFFCO
Characteristics of technology:	Increase in yield
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 9

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of bypass Fat in high lactating Buffalo to enhance milk production (1 st year)
Year/Season:	2024/Kharif
Farming situation:	-
Problem diagnosis:	Low milk production from high lactating buffaloes due to low dietary energy intake..
Thematic area:	Animal Nutrition 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 feeding bypass fat for lactating buffaloes
T2 –Recommended Practice-	Supplementing lactating animal with bypass fat @100g/animal /day for three month
T3- Recommended Practice-	-
Starting Date:	15 July 2024
Date of Compilition:	15 September 2024
Source of technology:	CAZRI-2014
Characteristics of technology:	Supplementing lactating animal with bypass fat @100g/animal /day for three month
Name of Crop/Enterprises:	Buffalo
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 African tall variety of maize fodder on milk production in lactating cattle
Year/Season:	2024/Kharif
Farming situation:	-
Problem diagnosis:	Low milk production due to lack of quality green fodder
Thematic area:	Animal Nutrition 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 feeding maize fodder , use of weeds

T2 –Recommended Practice-	Feeding of maize fodder @ 20 kg/animal/day up to 3 month
T3- Recommended Practice-	-
Starting Date:	5 July 2024
Date of Compilition:	15 September 2024
Source of technology:	IGFRI, Jhansi 2012
Characteristics of technology:	concentrate mixture along with fodder @ 20 kg/animal/day up to 3 month
Name of Crop/Enterprises:	Cow
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 Ca, P and Vit-D (Ostocalcium Vet)supplement in daily diets of buffalo during lactation period.
Year/Season:	2024-25/Rabi
Farming situation:	-
Problem diagnosis:	Due to deficiency of Ca, P and Vit-D milk production is decreased during lactation period due to deficiency of Ca, P and Vit-D
Thematic area:	LPM
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 use additional supplements
T2 –Recommended Practice-	Use 100 ml. calcium, Phosphorus and Vitamin D supplement per day in diet of animal just after calving for 60 days.
T3- Recommended Practice-	-
Starting Date:	15 November 2024

Date of Compilation:	15 January 2025
Source of technology:	IVRI, 2004
Characteristics of technology:	Use of 100 ml. calcium, Phosphorus and Vitamin D supplement per day in diet of animal just after calving for 60 days.
Name of Crop/Enterprises:	Cow
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 Growth and Income through Balanced Nutrition in goat.
Year/Season:	20234-25 Rabi
Farming situation:	-
Problem diagnosis:	Poor growth, due to mineral deficiency in goat reared under semi intensive system
Thematic area:	LPM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use additional supplements
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 2024
Date of Compilation:	15 February 2025
Source of technology:	IVRI, Izzatnagar
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	-

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	Rhizoctonia Aerial blight diseases management in Soybean	<i>Trichoderma viride</i> , Fungicide Tebuconazole + Sulphur	Kharif 2024	4.0	10	Yield, B:C ratio
2	Paddy	Improve and disease resistant variety	Improve and disease resistant variety of paddy (PS 1509)	Seed				
3	Maize	IPM	Integrated pest management in Maize	Pheromone trap, Beauveria basiana, Emamectin benzoate	Kharif 2024	4 ha	10	Yield, B:C ratio
4	Chickpea	Improved and Wilt resistant variety	Wilt resistant variety of Chickpea (JG 24)	Seed	Rabi 2024	4 ha	10	Disease incidence (%), Yield
5	Wheat	Grain storage	Pro super bag for storage of wheat	Super bags	Summer 2024	-	10	Insect infestation
6	Potato	Disease management	IDM for foliar disease management in potato	<i>Trichoderma viride</i> , Tebuconazole + Sulphur	Rabi 2024-25	2.0	05	Disease incidence (%), Yield
7	Garlic	Horticulture	Improve variety G 189	Seed	Kharif 2023	0.5 ha	5	Bulb size, Yield, B:C ratio

8	Coriander	Horticulture	Improve variety- Jawahar Dhaniya 10	Seed	Rabi-2024-25	2 ha	10	Yield, Net returns, B:C ratio
9	Bean	Horticulture	Biofertiliser and bio- control based IPM in Bean	Azotobactor, PSB, Mycorrhiza and <i>Beauveria basiana</i>	Kharif 2024	2 ha	5	Insect incidence, Yield, B:C ratio
10	Onion	IWM	Integrated weed Management in Onion	Weedicide oxyflorfen and quizalophop ethyl	Rabi 2024	02 ha	10	Yield
11	Brinjal	AEG	Demonstration on weed management by CIAE make Power Weeder	Engine operated 3- row mechanical weeder (ICAR- CIAE)	Rabi 2024	05 ha	10	Weeding Efficiency (%), Net income (Rs./ha)

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	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

			birds etc.				
Goat	Non Descript	10	10	concentrate mixture 15 kg each goat kid	Body Weight Gain , B:C ratio, Feedback, Farmers reaction	- -	--
Cow	Cross breed	10	10	Concentrate Pelleted feed for milch animals 1 to 2 Kg of milk production.	Increase Milk Production / Day/ Animal, Disease infestation rate of Animal	-	-
Cow	Cross breed	10	10	25 gm/day/animal of Probiotics (SC) Yeast culture is feed (90 days)	Milk Production / Day/ Animal, % change Increase in Conception rate of Animal.	-	-
Poultry	Narmadanidhi	05	200	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	Soybean	Improve variety and INM	Seed (JS 20 116), use of Biofertilisers, Application of Sulphur in soil, Insecticide for insect management	Seed, Biofertilisers,	Kharif 2023	20	50	Yield, Net returns, B:C ratio
2	Lentil	Improve variety and INM	Seed (L 4727), use of Biofertilisers, Application of Sulphur in soil, Insecticide for	Seed, Biofertilisers, Bentonite sulphur, Thiamethoxam	Rabi 2023-24	20	50	Yield, Net returns, B:C ratio

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Net etc.)									
Total									
b) Fruits									
Management of young plants/orchards									
Total									
c) Ornamental Plants									
Total									
d) Plantation crops									
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									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others				SC/ST		
			Male	Female		Total	Male	Female	
Soil and Water Testing									
Total									
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
Production of quality animal products	-	--	--	--	--	--	--	--	--
Total	2	2	16	10	26	18	6		24
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	1	1	18	0		20	2	0	2

[illegible]

I Crop Production									
Weed Management									
Resource Conservation Technologies									
Cropping Systems									
Crop Diversification	1	1	20	4	24	4	2	6	30
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management	1	1	18	0	20	2	0	2	20
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1	18	0	20	2	0	2	20
Export potential vegetables	1	1	20	4	24	4	2	6	30
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Cultivation of Fruit	1	1	18	0	20	2	0	2	20
Management of young plants/orchards	1	1	18	0	20	2	0	2	20
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants	1	1	20	4	24	4	2	6	30
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	1	1	18	0	20	2	0	2	20
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs	1	1	18	0	20	2	0	2	20
Management of Problematic soils									
Micro nutrient deficiency	1	1	20	4	24	4	2	6	30

1. On Campus

[illegible]

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

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	F/FW	Production technology of Kodo	1							
August	F/FW	Weed management	1							
Horticulture										
September	F/FW	Nursery raising	1							
October	F/FW	Strwberry and Broccchali cultivation	1							
Livestock production										
Home Science										
September	F/FW	Income generation activities for empowerment of rural Women								
Plant Protection										
August	F/FW	IPM in Kharif crops	3							
September	F/FW	IPM in Rabi crops	4							
November	F/FW	Biocontrol of insect pest	1							
December	F/FW	Production of	1							

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	20	250
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 2212	40
	Soybean	JS 2216	40
PULSES	Blackgram	IPU 11-2	40
	Chickpea	JG 24	30
	Lentil	L 4727	50
VEGETABLES	Nil		
FLOWER CROPS	Nil		
OTHERS	GARLIC	G 323	40
	CORIANDER	JD 10	10

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	<i>Pseudomonas</i>	<i>floroscence</i>		200
3				
BIOFERTILIZERS				

1	Azotobactor			100
2	PSB			100
3	<i>Rhizobium</i>			50
	VAM			50
BIO PESTICIDES				
1	Beuveria 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		

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 22-12, JS 22-16, JS 2172, JS 2094, JS 2303, RVS 1135, RVS 2001-4, JS 2098, JS 2069,		
Kodo	Kharif	Indira-9, JK 137		
Chickpea	Rabi	JG 18, 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	
Medicinal plants unit	100 plants at KVK premises	100	
Natural farming	Working	2000	

KVK Seoni

Year of sanction: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.2023)

[illegible]

staff									

1.3 Total land with KVK (in ha): 15 ha

S. No.	Item	Area (ha)
1	Under Buildings	00.40
2	Under Demonstration Units	00.80
3	Under Crops	11.00
4	Orchard/Agro-forestry	00.60
5	Others (specify)	02.20
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)	RF	2014	100.00	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	July 2024
2	December 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	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

Strength	Weakness	Opportunities	Threats
Productive Fertile Soil	Rainfed Condition	Introduction of Pulses & Oilseed crop	Low income

AES-2

Strength	Weakness	Opportunities	Threats
Productive Fertile Soil	Rainfed Condition	Introduction of Pulses & Oilseed crop	Low income

AES-3

Strength	Weakness	Opportunities	Threats
Productive Fertile Soil	Rainfed Condition	Introduction of Pulses & Oilseed crop	Low income

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 gravelly 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 (ha)	Production (Qt.)	Productivity (q/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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	20.50	25.4	11.5
Feb. 2023	05.00	28.6	13.3
Mar. 2023	00.00	33.4	17.4
Apr. 2023	00.00	37.3	21.7
May. 2023	00.00	40.4	25.5
Jun. 2023	210.00	35.5	24.4
July. 2023	350.00	28.7	22.4
Aug. 2023	390.00	28.3	22.1
Sept. 2023	340.00	29.2	21.6
Oct. 2023	160.22	29.7	18.4
Nov. 2023	95.00	27.5	13.3
Dec. 2023	15.00	26.1	10.9

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	115.23 MT	6.780 kg
Sheep			
Crossbred/ Indigenous	91		
Goats	215255		
Pigs Crossbred/ Indigenous	1540	---	---
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 (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Kurai	Kurai	Satewani,Rampuri , Wahidabad, Chikhli,Babai,Sev enkanhar	Paddy, Pigeonpea, Chickpea, Mustard, Sesame, Poultry Birds and animal feeds (Green fodder, Mineral	Low yield, Low return, inadequate supply of nutrient, lack of	Nutritional security, employment generation, improve varieties, green fodder scarcity, INM, IPM, IFS FM and RCT

				Mixture)	knowledge about crop production, local variety	
2	Seoni	Seoni	Lakhanwada, Fareda, Khairitek, Marjhoor, Simariya Chidiya palari,Dheka,Sing hori, Kisanpur,Madwa	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	Barghat	Barghat	Kanchna, Jevnara, Lohara, Borikhurd, Ankhivada, 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	Chhapara	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	Dhanora	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	Lakhnadone	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
7	Ghansor	Ghansor	Bagdari Gorakhpur Durjanpur Barela Benaki	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,
8	Keolari	Keolari	Paraspani, panjra, pondi	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,

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	Advance Farm Machinery
5	Off Season vegetable cultivation
6	Popularization of improved variety of vegetables.
7	Plant nutrient management as per STV in Crops
8	Linseed – Varietals adoption and fertilizer management
9	Vegetable - Popularization of improved variety, hybrids of vegetables, Plant protection in vegetables
10	Varietal -availability, sowing method ridge & furrow method & Nutrient Management.
11	Popularization of Sweet corn cultivation
12	Popularization of Quinoa crop in rice fallow cropping system
13	Fruit Crop- Popularization of Rejuvenation technique in Guava and Mango.
14	Popularization of improved production and management technology of Fruit Crops
15	Popularization and value addition of Water chestnut Farming.
16	Empowering the farm women through income generation activity
17	Value addition of Soybean ,Ber ,Lac ,Guva in Rural areas
18	Drudgery and increased efficiency of farm women through improved technology
19	Enhancing productivity of pulse crops through Cluster Front Line Demonstration
20	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
20	100	20	200

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
75	1875	30	Mass

Seed Production (Qtl.)	Planting material (Nos.)
325	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	-	-	-	-	-	-	-	-	-

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
Natural Farming	03									03
Hort. On Veg.					04					04
Farm Implement	01				01					02
Nutri Sensitive Agriculture	03			01	01					05
Soil Fer. Mgt.		01								01
Rec. Con. Tech.	02									02
Drudgery Red.				01						01
Income Generations	01									01
Storage Loss			01							01
TOTAL										20

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

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

Detailed Information about OFT:

OFT-1

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Natural Farming Inputs in Jeera Shankar Rice crop
Year/Season:	2024/Kharif
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
Details of technology selected for assessment	
T1 – Farmers Practice-	FYM and Vermi Compost
T2 –Recommended Practice-	Seed treatment with Beejamrit, Jeevamrit @ 5% & 10%,Ghanjeevamrit @ 5qtl/ha
T3- Recommended Practice-	T2 + Dashparni Ark @3% spray, Gibrallc Tonic @ 375lt/ha, Neemastra @375lt/ ha Khatichach @ 375lt/ha
Date of sowing:	July 2024
Date of harvesting:	October 2024
Source of technology:	Book- Kam Lagat Prakratik Kheti, Author- Shri Acharya Devrat, 2019
Characteristics of technology:	Supplement of chemical fertilizer and enhance organic carbon and soil microbe.
Name of Crop/Enterprises:	Jeera Shankar Rice/Natural Framing
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Soil Organic Carbon Content & Yield (qt/ha)	

OFT-2

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Beejamrit ,Ghanjeevamrit & Jeevamrit in Kutki JK-4.
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to traditional old variety.
Thematic area:	Natural Framing
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	NPK-00:00:00
T2 –Recommended Practice-	Seed treatment with Beejamrit, Jeevamrit @ 5% & 10%,Ghanjeevamrit @ 5qtl/ha
T3- Recommended Practice-	T2 + Dashparni Ark @3% spray, Gibrallic Tonic @ 375lt/ha, Neemastra @375lt/ ha & Khatti chhachh @ 375lt/ha.
Date of sowing:	July 2024
Date of harvesting:	October 2024
Source of technology:	Book- Kam Lagat Prakratik Kheti, Author- Shri Acharya Devrat, 2019
Characteristics of technology:	Improved variety and Input Saving
Name of Crop/Enterprises:	Kutki JK-4/Natural Framing
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Soil Organic Carbon Content & Yield (qt/ha)	

OFT-3

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Yield potential of brinjal through application of Biofortisol &Pseudomonas
Year/Season:	2024/Kharif
Farming situation:	Irrigation
Problem diagnosis:	Low yield of brinjal due to indiscriminate use of Chemical fertilizer
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	No use of Bio inoculants
T2 –Recommended Practice-	Soil application of Biofortisol @ 2 Litre mix in FYM & Foliar Application of Biofortisol @ 5 ml/Litre Water 30 & 45 DAT
T3- Recommended Practice-	Soil application of Biofortisol @ 2 Litre mix in FYM & Foliar Application of Pseudomonas @ 10 ml & Biofortisol @ 5 ml/Litre Water 30 & 45 DAT
Date of sowing:	Transplanting July 2024
Date of harvesting:	December 2024
Source of technology:	MRPC JNKVV ,2019
Characteristics of technology:	Yield potential and replacement of chemical fertilizer
Name of Crop/Enterprises:	Brinjal variety Kashi Sandesh
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
No of Fruit/ Plant , Yield (qt/ha)	

OFT-4

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of IDM module for management of leaf curl disease in chilli
Year/Season:	Kharif/2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chilli crop due to leaf curl virus resulting heavy losses to growers
Thematic area:	Horticulture Vegetable
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	
T2 –Recommended Practice-	Seedling Treatment with Imidachlorpid 48% FS @ 3.0 ml/ lit before transplanting + Spray of Neem oil @ 5 ml/lit + Spray of Imidachlorpid 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:	July 2024
Date of harvesting:	December 2024
Source of technology:	ICAR IIVR, 2018
Characteristics of technology:	IDM module
Name of Crop/Enterprises:	Chilli (Sunidhi)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
No of Fruit/ Plant , Yield (qt/ha)	

OFT-5

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of inclined plate planter for sowing of maize
Year/Season:	Kharif/2024
Farming situation:	Rainfed
Problem diagnosis:	Proper Plant Population, Need of timely sowing, Labour requirement
Thematic area:	Farm Implement
No of trials:	5
No. of farmers involved	5
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	Line sowing of maize with hand dibbling practices
T2 –Recommended Practice-	Maize sowing by inclined plate planter
T3- Recommended Practice-	-
Date of sowing:	July 2024
Date of harvesting:	October 2024
Source of technology:	ICAR-CIAE 2005
Characteristics of technology:	Maintained Plant population Labour saving
Name of Crop/Enterprises:	Inclined plate planter
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Field Capacity (ha/ hr), Labour & time saving % ,Yield (qt/acre)	

OFT-6

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of Insect Proof Net Low tunnels for vegetable Nursery system
Year/Season:	Kharif 2024
Farming situation:	Rainfed/Irrigated
Problem diagnosis:	More nursery seedling infected due to virus and & other diseases
Thematic area:	Farm Implement
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	Open Bed vegetable Nursery system
T2 –Recommended Practice-	insect-proof low net tunnels for vegetable Nursery system
T3- Recommended Practice-	-
Date of sowing:	August 2024
Date of harvesting:	September 2024
Source of technology:	NCPAH-Protected Cultivation PFDC CIAE 2015
Characteristics of technology:	Protected cultivation cost saving per m2
Name of Crop/Enterprises:	Insect Proof Net Low tunnels
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Infected Seedling (%), Seedling Population per square meter of bed and % cost per / m2	

Home Science OFT: OFT-7

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Production Bio-fortified variety of Pearl Millet AHB 1200
Year/Season:	2024/Kharif
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
Details of technology selected for assessment:	
T1 – Farmers Practice-	Local variety of millet
T2 –Recommended Practice-	AHB 1200 variety of millet
Source of technology:	Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani (2018) under ICRISAT
Characteristics of technology:	Bio-fortified variety
Name of Crop/Enterprises:	Pearl Millet AHB 1200
Farming situation:	Kharif/Rainfed
Date of sowing:	July 2024
Date of harvesting:	October 2024
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Yield (qt/ha)	

OFT-8

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of dried drum stick leaves on nutrition's supplement for tribal adolescent girls
Year/Season:	Kharif/2024
Problem diagnosis:	Lack of awareness for nutritional anemia
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
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of dried drum stick
T2 –Recommended Practice-	25g dried drum stick leaves on nutrition's supplement for tribal adolescent girl
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	25g dried drum stick leaves
Farming situation:	Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Nutrition intake Clinical measurement	

OFT-9

Name of Discipline	Home Science
Title of on-farm trial:	Assessment Value addition and processing of mahua flower for making nutri-bar
Year/Season:	Kharif/2024
Problem diagnosis:	Lack of awareness of value addition and food processing
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
Details of technology selected for assessment:	
T1 – Farmers Practice-	Not practices
T2 –Recommended Practice-	Mahua flower nutri-bar
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	Value additional and Income generation
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Evaluation of increase in income	

OFT- 10

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Natural Farming Inputs (Jeevamrit, Ghanjeevamrit etc.) in Wheat (Triticum aestivum) crop.
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low organic carbon content & soil microbes in soil, Quality Produce.
Thematic area:	Natural Framing
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	FYM and Vermi Compost
T2 –Recommended Practice-	Seed treatment with Beejamrit, 10%,Ghanjeevamrit @ 5qtl/ha. & Jeevamrit @ 5%
T3- Recommended Practice-	T2 + Dashparni Ark @3% spray, Gibrallic Tonic @ 375lt/ha, Neemastra @375lt/ ha & Khatichach @ 375lt/ha.
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	Book- Kam Lagat Prakratik Kheti, Author- Shri Acharya Devrat, 2019
Characteristics of technology:	Input saving and enhancement of organic carbon content & soil microbes in soil, Quality Produce
Name of Crop/Enterprises:	Wheat JW 3465/Natural Framing
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Soil Organic Carbon Content, Yield (Qtl/ha)	

OFT- 11

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Sulphur in Mustard crop.
Year/Season:	Rabi 2024-25
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
Details of technology selected for assessment	
T1 – Farmers Practice-	NPK- 60:25:00
T2 –Recommended Practice-	NPK- 90:40:25
T3- Recommended Practice-	NPK- 90:40:25 + 40S
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	Book- Kam Lagat Prakratik Kheti, Author- Shri Acharya Devrat, 2019
Characteristics of technology:	Input saving and enhancement of organic carbon content & soil microbes in soil, Quality Produce
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Yield (Qtl/ha)	

OFT- 12

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of application of Bio inoculants in Cauliflower
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Cauliflower due to indiscriminate use of Chemical fertilizer
Thematic area:	Horticulture on Vegetable
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	No use of Bio inoculants
T2 –Recommended Practice-	Soil application of Biofertilizer & PSB @ 2 Litre mix in FYM & Foliar Application of Biofertilizer@ 5 ml/Litre Water 30 & 45 DAT
T3- Recommended Practice-	Soil application of Biofertilizer @ 2 Litre mix in FYM & Foliar Application of Pseudomonas @ 10 ml & Biofertilizer @ 5 ml/Litre Water 30 & 45 DAT
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	MRPC JNKVV ,2019
Characteristics of technology:	Increase the yield and balanced fertilizer
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
curd Weight (gm) , Yield (qt/ha)	

OFT- 13

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding variety of Coriander ACR-1 & 2
Year/Season:	Rabi/2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Coriander due to use of old variety infected by stem gall
Thematic area:	Horticulture on Species
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
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:	November 2024
Date of harvesting:	March 2025
Source of technology:	MRPC JNKVV ,2019
Characteristics of technology:	Increase the yield Improved variety
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
No. of Umbells /plant , No. of Umbellets / plants , Seed Yield (q/ha	

OFT- 14

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of Mulcher Machine for maize-wheat/ chickpea cropping system
Year/Season:	Rabi/2024-25
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
Details of technology selected for assessment	
T1 – Farmers Practice-	Crop residue burning + 2x cultivator + 1x Rotavator + sowing
T2 –Recommended Practice-	Mulcher machine (mulching) + Rotavator + sowing
T3- Recommended Practice-	T3: T2 + Application of Bio digester
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	ICAR-CIAE, Bhopal 2010
Characteristics of technology:	Enhancement of soil organic carbon and timely sowing operation
Name of Crop/Enterprises:	Mulcher Machine, biodigester
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Organic Carbon %, Field Capacity (ha/ hr), Yield (qt/Ha)	

OFT- 15

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of conservation agriculture practices with happy seeder technology for rice-wheat system
Year/Season:	Rabi/2024-25
Farming situation:	Irrigated
Problem diagnosis:	Burning of crop stubble caused low carbon content in soil. & less availability of labour and water in winter
Thematic area:	Farm Mechanization /Resource Conservation Technology
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	Burning of crop stubble + 2 X Cultivator + 1 X Planker + 1 X Rotavator
T2 –Recommended Practice-	Direct Sowing of Wheat by Happy seeder Machine
T3- Recommended Practice-	-
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	ICAR-CIAE, Bhopal 2010
Characteristics of technology:	Enhancement of soil organic carbon and timely sowing operation
Name of Crop/Enterprises:	Wheat HI 1544 /Happy Seeder Machine
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Time saving(%) & Cost Saving (%) till the sowing operation, Field Cap. (ha/hr) Yield (qt/acre)	

Home Science OFT

OFT-16

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Drudgery reduction in Mahua-seed decortication
Year/Season:	Rabi/204-25
Problem diagnosis:	Inefficient recovery of Mahua- seed and pain in fingers and shoulders.
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
Details of technology selected for assessment:	
T1 – Farmers Practice-	Mannual Mahua-seed decortication by stone
T2 –Recommended Practice-	Use of Mahua Seed decorticator machine
Source of technology:	OUAT- (2018)
Characteristics of technology:	Time saving labour saving
Name of Crop/Enterprises:	Mahua Seed decorticator machine
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Efficient recovery of Mahua- seed, Reduction in Breakage Reduction pain in fingertips and faster decortication.	

OFT-17

Name of Discipline	Home Science
Title of on-farm trial:	Assessment and Value addition of Kodo millet laddoo for income generation and nutritional security
Year/Season:	Rabi/204-25
Problem diagnosis:	Lack of awareness of value addition and food processing
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation and nutritional security
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No practices
T2 –Recommended Practice-	Processing and value addition of Kodo millet laddoo
Source of technology:	Indian institute of Millet Research, Hyderabad (2015)
Characteristics of technology:	Income generation and nutritional security
Name of Crop/Enterprises:	Kodo millet laddoo
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Evaluation of increase in income	

OFT-18

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of reduction in storage loss through pro-super bag.
Year/Season:	Rabi/2024-25
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
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of Gunny bag, conventional storage practice
T2 –Recommended Practice-	Use of Pro-super bag
Source of technology:	BCKV (2018)
Characteristics of technology:	Reduced storage losses
Name of Crop/Enterprises:	pro-super bag
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Sampling, Inspection & storage loss (kg loss during storage)	

OFT-19

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Multigrain Atta (Flour) consumption.
Year/Season:	Rabi/2024-25
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
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, (Central Food Technological Research Institute) Mysuru, 2012
Characteristics of technology:	Balanced supply of protein & minerals
Name of Crop/Enterprises:	Multigrain Atta (Flour)
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Body Weight , Height & BMI	

OFT-20

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Wheat variety Pusa Tejas for nutritional security
Year/Season:	Rabi/2024-25
Problem diagnosis:	Lack of awareness for bio-fortified varieties
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
Details of technology selected for assessment:	
T1 – Farmers Practice-	Local or improved varieties
T2 –Recommended Practice-	Pusa Tejas Hi 8759; High protein content, iron and zinc rich
Source of technology:	IARI Wheat research station, Indore
Characteristics of technology:	bio-fortified varieties
Name of Crop/Enterprises:	Wheat Pusa Tejas
Farming situation:	Irrigated
Date of sowing:	November 2024
Date of harvesting:	March 2025
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Results / findings

Performance indicators/ parameters	Unit/ details
Nutrition assessment, Intake assessment	

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	SFM	Demonstration on Zinc in transplanted Rice	NPK (100:50:40) +Zinc Sulphate@25kg/ha	Kharif 2024	4 ha	10	Yield (q/ha)
2	Rice	SFM	Demonstration on Ferrous Sulphate in Direct Seeded Paddy	NPK (100:50:40) + Ferrous Sulphate@25kg/ha	Kharif 2024	4 ha	10	Yield (q/ha)
3	Wheat	Plant Nutrient management	Demonstration of Pseudomonas in Wheat	2 Foliar Sprays of @10ml/litre Pseudomonas	Rabi 204-25	4 ha	10	Yield (q/ha)
4	Wheat	Plant Nutrient management	Demonstration of on Nano Urea in Wheat	80:50:40 (NPK) + Nano urea @ 4 ml/ltr	Rabi 204-25	4 ha	10	Yield (q/ha)

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
(Seed drill) Direct Seeded Rice technology for Rice sowing (JR206)	Paddy	Kharif 2024	10	4	Paddy JR 206	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)
Hand wheel hoe for weeding in Maize crop	Maize	Kharif 2024	10	4	Hand Wheel hoe	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)
Drone Spraying of WSF on Wheat	Wheat	Rabi 204-25	10	4	Drone spraying charges	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)
Demonstration of Spiral grader	Soybean	Kharif 2024 after harvesting	10	-	Spiral grading charges	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)	Filed Capacity(ha/hr) Yield (qt/ha)

*Field efficiency, labour saving etc.

Livestock Enterprises (NIL)

Investment Enterprises (A12)							
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
	NIL						

*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
Nano DAP in Tomato	Nano DAP in tomato	10	4 ha	Nano DAP	Number of Fruit /Plant, Yield Qtl /ha	Number of Fruit /Plant, Yield Qtl /ha	Number of Fruit /Plant, Yield Qtl /ha
botanicals insecticides Dashparni ark & Neemastra against major pests of Brinjal	Dashparni ark & Neemastra in Brinjal	10	4 ha	Dashparni ark & Neemastra	Number of Fruit /Plant, Yield (q /ha)	Number of Fruit /Plant, Yield (q /ha)	Number of Fruit /Plant, Yield (q /ha)
Foliar application of Nano Urea + Nano zinc @ 4 ml/ Litre water at 30 & 45 DAT	Cauliflower (Lucky)	10	4 ha	Nano Urea + Nano zinc	Curd Weight (gm), Yield (Qtl /ha)	Curd Weight (gm), Yield (Qtl /ha)	Curd Weight (gm), Yield (Qtl /ha)
onion variety Bhima Shakti	onion variety Bhima Shakti	10	1000 sqm	onion variety Bhima Shakti	Bulb Size, Bulb Weight, Yield Qtl /ha	Bulb Size, Bulb Weight, Yield Qtl /ha	Bulb Size, Bulb Weight, Yield Qtl /ha
Nutrition Kitchen Garden for Nutritional Supplementation	Kitchen Garden (Vegetable)	10	1000 sqm	Vegetable seed	Yield and Time availability	Yield and Time availability	Yield and Time availability
income generation through Vermicompost production	Vermicompost production	10	10 unit	Vermi bed	Vermicompost production (qt/year)	Vermicompost production (qt/year)	No use
Value addition Jack-fruit for nutritional security and additional income generation	Value addition Jack-fruit	10	10 unit	Value addition material	Income (Rs/kg)	Income (Rs/kg)	Income (Rs/kg)
backyard poultry for Income Generation and Nutritional Security	poultry for Income Generation and Nutritional Security	10	10 unit (15 chicks)	(15 chicks per farmer)	Income (Rs/kg)	Income (Rs/kg)	Income (Rs/kg)

backyard poultry for Income Generation and Nutritional Security	poultry for Income Generation and Nutritional Security	10	10 unit (15 chicks)	(15 chicks per farmer)	Income (Rs/kg)	Income (Rs/kg)	Income (Rs/kg)
Nutrition Kitchen Garden under NF (Natural Farming) for Nutritional Supplementation	Nutrition Kitchen Garden under NF (Natural Farming) for Nutritional Supplementation	10	10 unit	Seed minikits & fruits & vegetables saplings	Income (Rs/kg)	Income (Rs/kg)	Income (Rs/kg)
Value addition Bael for additional income generation	Value addition Bael for additional income generation	10	10 unit	Bael fruit, sugar, KMS, Pectin and packaging material	Income (Rs/lit)	Income (Rs/lit)	Income (Rs/lit)
Bio-fortified oilseed crop for Nutritional security	Mustard Var. Pusa Mustard 30	10	10 acre	Mustard Var. Pusa Mustard 30	Yield (qt/acre)	Yield (qt/acre)	Yield (qt/acre)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	20	October and March	400
2	Farmers Training	20	July and November	450
3	Media coverage	10	October and March	Mass
4	Training for extension functionaries	04	July and November	100

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeonpea	Newly Released Improved variety	Newly Released Improved variety BDN-711+ Seed treatment+ INM+IPM	BDN-711	Kharif 2024	30	75	Low yield due to old variety and Lake of awareness of INM and Seed treatment and IPM
2	Lentil	Newly Released Improved variety	Newly Released Improved variety Kota Masoor-2 + Seed treatment+ INM+IPM	Kota Masoor-2	Rabi 2024-25	20	50	Low yield due to old variety and Lake of awareness of INM and Seed treatment and IPM
3	Blackgram	Newly Released Improved variety	Newly Released Improved variety + Seed treatment+ INM+IPM	-	Summer 2024	20	50	Low yield due to old variety and Lake of awareness of INM and Seed treatment and IPM

4	Soybean	Newly Released Improved variety JS 2098 + Seed treatment+ INM+IPM	Newly Released Improved variety	JS 2098	Kharif-2023	20	50	Low yield due to old variety and Lake of awareness of INM and Seed treatment and IPM
5	Niger	Newly Released Improved variety JNS 30+ Seed treatment+ INM+IPM	Newly Released Improved variety	JNS 30	Kharif-2023	10	25	Low yield due to old variety and Lake of awareness of INM and Seed treatment and IPM
6	Mustard	Newly Released Improved variety RH 0749 + Seed treatment+ INM+IPM	Newly Released Improved variety	RH 0749	Rabi -2023-24	20	50	Low yield due to old variety and Lake of awareness of INM and Seed treatment and IPM
7	Linseed	Newly Released Improved variety JLS—66 + Seed treatment+ INM+IPM	Newly Released Improved variety	JLS 66	Rabi -2023-24	20	50	Low yield due to old variety and Lake of awareness of INM and Seed treatment and IPM

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05		219
2	Farmers Training	06		216
3	Media coverage	01		Mass
4	Training for extension functionaries	02		38

A) ON Campus

[illegible]

[illegible]

[illegible]

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	05	03								125	

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									
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	01	-	-	-	-	-	-	50
Export potential vegetables			-	-	-	-	-	-	
Protective cultivation (Green Houses, Shade Net etc.)	01	01	-	-	-	-	-	-	25
b) Fruits			-	-	-	-	-	-	
Cultivation of Fruit	01	01	-	-	-	-	-	-	25
Management of young plants/orchards	01	01	-	-	-	-	-	-	
Export potential of ornamental plants			-	-	-	-	-	-	
Propagation techniques of Ornamental Plants			-	-	-	-	-	-	
d) Plantation crops	02	01	-	-	-	-	-	-	50
e) Tuber crops	01	01	-	-	-	-	-	-	50
f) Spices	01	01	-	-	-	-	-	-	50
g) Medicinal and Aromatic Plants	01	01	-	-	-	-	-	-	50
III Soil Health and Fertility Management			-	-	-	-	-	-	
Soil fertility management	02	01	-	-	-	-	-	-	
Soil and Water Conservation	-	-	-	-	-	-	-	-	
Integrated Nutrient Management	02	01	-	-	-	-	-	-	
Production and use of	02	01	-	-	-	-	-	-	

organic inputs									
Management of Problematic soils	-	-	-	-	-	-	-	-	
Micro nutrient deficiency in crops	02	01	-	-	-	-	-	-	
Nutrient Use Efficiency	02	01	-	-	-	-	-	-	
Soil and Water Testing	-	-	-	--	--	--	--	--	
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	04	04	-	-	-	-	-	-	100
Design and development of low/minimum cost diet	02	02	-	-	-	-	-	-	50
Designing and development for high nutrient efficiency diet	01	01	-	-	-	-	-	-	
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	
Storage loss minimization techniques	02	02	-	-	-	-	-	-	50
Value addition	06	06	-	-	-	-	-	-	150
Income generation activities for empowerment of rural Women	02	02	-	-	-	-	-	-	50
Location specific drudgery reduction technologies	04	04	-	-	-	-	-	-	100
Rural Crafts	-	-	-	-	-	-	-	-	
Women and child care	-	-	-	-	-	-	-	-	
Total	-	-	-	-	-	-	-	-	
VI Agril. Engineering									
Micro Irrigation	02	02	-	-	-	-	-	-	50
Water management Rabi crop	02	02	-	-	-	-	-	-	50
Rainwater harvesting	02	02	-	-	-	-	-	-	50
Protected cultivation structure	01	01	-	-	-	-	-	-	25
Resource conservation technology	02	02	-	-	-	-	-	-	50
Drone Technology	01	01	-	-	-	-	-	-	25
Small Farm implement	01	01							25
VII Plant Protection									
Integrated Pest Management	02	02	-	-	-	-	-	-	50
Integrated Disease Management	02	02	-	-	-	-	-	-	50

Bio-control of pests and diseases	02	02							50
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	01	01	-	-	-	-	-	-	25
Formation and Management of SHGs	02	02	-	-	-	-	-	-	50
Mobilization of social capital			-	-	-	-	-	-	
Entrepreneurial development of farmers/youths	02	02	-	-	-	-	-	-	50
WTO and IPR issues			-	-	-	-	-	-	
XI Agro-forestry			-	-	-	-	-	-	
XII Others (Pl. Specify)			-	-	-	-	-	-	
TOTAL									
(B) RURAL YOUTH			-	-	-	-	-	-	
Production of organic inputs	02	02	-	-	-	-	-	-	50
Sheep and goat rearing			-	-	-	-	-	-	
TOTAL									
(C) Extension Personnel	02	02							50
TOTAL	63	63							1575

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										
January	F&FW	Off-season vegetables	01	-	-	-	-	-	-	01
Feb	F&FW RY	Protectivecultivation (GreenHouses,Shade Net etc.)	01	-	-	-	-	-	-	01
May	F&FW	Management of young plants/orchards	01	-	-	-	-	-	-	01
June	F&FW	Production and Management technology	01	-	-	-	-	-	-	01
June	F&FW	Species production	01	-	-	-	-	-	-	01
June	F&FW	Tuber crop management	01	-	-	-	-	-	-	
Livestock production				-	-	-	-	-	-	
Home Science				-	-	-	-	-	-	
Jun	F&FW RY	Household food security by kitchen gardening and nutrition gardening	03	-	-	-	-	-	-	03
Oct	F&FW RY	Design and development of low/minimum cost diet	01	-	-	-	-	-	-	01
Nov	F&FW RY	Minimization of nutrient loss in processing	01	-	-	-	-	-	-	01
Nov	F&FW RY	Value addition	04	-	-	-	-	-	-	04
April	F&FW RY	Location specific drudgery reduction technologies	02	-	-	-	-	-	-	02
Plant Protection				-	-	-	-	-	-	
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Jun	F&FW	Soil fertility management	02	-	-	-	-	-	-	02
Dec	F&FW	Integrated Nutrient Management	02	-	-	-	-	-	-	02
Jan	F&FW	Micro nutrient deficiency in crops	01	-	-	-	-	-	-	01
Jan	F&FW RY	Vermi Composting	02	-	-	-	-	-	-	02
Jan	F&FW RY	Natural Farming	02	-	-	-	-	-	-	02
Agricultural Engineering				-	-	-	-	-	-	
Sep	F&FW RY	Micro Irrigation	01	-	-	-	-	-	-	01
Oct	F&FW RY	Water management Rabi crop	01	-	-	-	-	-	-	01
May	F&FW	Rainwater harvesting	01	-	-	-	-	-	-	01

	RY									
Jan	F&FW RY	Protected cultivation structure	01	-	-	-	-	-	-	01
Jan	F&FW RY	Advanced Farm Implement	01	-	-	-	-	-	-	01

2. Off Campus

[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	
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Jun	F&FW RY	Soil fertility management	02	01						02
Oct	F&FW RY	Integrated Nutrient Management	02	01						02
Jan	F&FW RY	Production and use of organic inputs	02	01						02
Sep	F&FW RY	Micro nutrient deficiency in crops	02	01						02
Sep	F&FW RY	Nutrient Use Efficiency	02	01						02
Jan	F&FW RY	Vermi Composting	02	01						02
Dec	F&FW RY	Natural Farming	02	01						02

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										
	F&EW RY	Mushroom Production	3 day							40
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
	F&EW RY	Vermi composting Production	3 Days							40

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	EX	Kharif Crop selection and Management	1							20
Sep	EX	Rabi Crop selection and Management	1							20
Horticulture										
June		Vegetable production	01							20
May/Jan		Orchards Management	01							20
Livestock production										
Home Science										
Sep		Value Addition	01							20
Jan		Nutrional Security	01							20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
July		INM	01							20
Sep		SFM	01							20
Agricultural Engineering										
Dec		Drone Technology	01							20
Sep		Micro Irrigation	01							20

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	16	-	-	-	-	-	-	-	-	-
Kisan Mela	02	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	10	-	-	-	-	-	-	-	-	-
Exhibition	01	-	-	-	-	-	-	-	-	-
Film Show	08	-	-	-	-	-	-	-	-	-
Method Demonstrations	02	-	-	-	-	-	-	-	-	-
Farmers Seminar	05	-	-	-	-	-	-	-	-	-
Workshop	01	-	-	-	-	-	-	-	-	-
Group meetings	08	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	20	-	-	-	-	-	-	-	-	-
Newspaper coverage	25	-	-	-	-	-	-	-	-	-
Radio talks	02	-	-	-	-	-	-	-	-	-
TV talks	02	-	-	-	-	-	-	-	-	-
Popular articles	10	-	-	-	-	-	-	-	-	-
Extension Literature	10	-	-	-	-	-	-	-	-	-
Advisory Services	24	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	25	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	25	-	-	-	-	-	-	-	-	-
Diagnostic visits	15	-	-	-	-	-	-	-	-	-
Exposure visits	01	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	02	-	-	-	-	-	-	-	-	-
Soil health Camp	04	-	-	-	-	-	-	-	-	-
Animal Health Camp	01	-	-	-	-	-	-	-	-	-
Agri mobile clinic	05	-	-	-	-	-	-	-	-	-
Soil test campaigns	02	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	02	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	05	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	02	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	05	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total										

Target for Production and supply of Technological products
SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Soybean	JS 20-116	55
	Paddy	JR 206	100
	wheat	JW 3465	70
OILSEEDS			
PULSES	Chickpea	JG-24	50
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady	500
SPICES	-	-	-
VEGETABLES	Tomato	Arka Rakshak, Arka Samrat	2000
	Brinjal	Harihar, Kanhaiya, Utkal	2000
	Chilli	Disha,4884	2000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	Drumstick	PKM-2	500
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)/Lit
BIOAGENTS		-	-	
1	Jawahar Biofertilizer Rhizobium	-	-	200
2	Jawahar Biofertilizer Azotobacter	-	-	200
3	Jawahar Trichoderma	-	-	200
4	Jawahar PSB	-	-	200
5	Jawahar Bio-digester	-	-	200
BIOFERTILIZERS		-	-	
1	Vermicompost	-	-	100 qtl
2	NADEP	-	-	-
BIO PESTICIDES		-	-	-
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-
3		-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg/Lit
Cattle Milk	Milk	-	-	2000
SHEEP AND GOAT	-	-	-	-
POULTRY	Narmada Nidi/KadakNath	-	1000	-
FISHERIES	-	-	-	-
Others (Specify)				

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

Date of start	Periodicity	Number of copies to be published
January-March	1	500
April-Jun	1	500
July-September	1	500
October-December	1	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Video	Advanced Farm Implement	01

2	Video	Value Addition	01
3	Video	Vermi Composting	01
4	Video	Natural Farming	01
5	Video	Horticulture	01

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 F&FW	PRA
2	Rural Youth	Line Dept
3	In-service personnel	Line Dept
4	methodology for identifying OFTs/FLDs	PRA, ex trainees, interface and AES
5	Matrix ranking	PRA, AES

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	Bagdari, Gorakhpur	Ghansour	103 km
2	Chakhi khamariya Battama	Kurai	31.4 km
3	Kisanpur, Jaitpur	Seoni	15.5 km
4	Sarikha pipariya	Barghat	25.6 km
5	Adegaove	Lakhnadon	66.9 km
6	Siroli, Vibhari	Keolari	54.2 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: Only Soil testing Lab 2008

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Electronic Balance	02	Working
2	Conductivity Meter	01	Working
3	PH Meter	01	Working
4	Water distillation meter	01	Working
5	Flam photo meter	01	Working
6	Spector photo meter	01	Working
7	Inflictor meter	01	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1500	1500	150	-
Water Samples				
Total				

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
ATAM	Technical Expert help, Kisan Mela Training and Farmer schemes
Agril Engg.	Technical Expert help, Kisan Mela Training and Farmer schemes
Horticulture Dept	Technical Expert help, Kisan Mela Training and Farmer schemes
Women and Child Dept	Technical Expert help, Kisan Mela Training and Farmer schemes
Agriculture Dept	Technical Expert help, Kisan Mela Training and Farmer schemes

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Kisan Mela/Training/Visit	Experts Lecture and Exhibitions

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
NHM Not working in district	

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	Demonstration/ Awareness Programmes / Training programme	382
Feb	Awareness Programmes/ Training programme	560
Mar	Awareness Programmes/ Training programme	500
Apr	-	-
May	Awareness Programmes	100
Jun	Awareness Programmes/ Demonstration	100
Jul	Exhibition	Mass
Aug	Demonstration/ Group meetings /Awareness Programmes	100
Sep	Awareness Programmes	100
Oct	Awareness Programmes	150
Nov	Training programmes/Awareness Programmes	150
Dec	Training programmes/Awareness Programmes	200

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4000 Sq m

Season	Crop	Variety	Particulars /details	Area (Sq m)
Kharif	Soybean Paddy Maize Pigonpea Moong Urd	JS20-116, JS 2098, RVS2001-4, JS2098, JR-81, JRH-105, JRH-120, JR-201, JR206 JM-421, JKMh 2492, JM-218, JM-216 Rajeshwari, TJT-501, BDN-711, Pusa-16 Virat, Sikha, MH-421 IU-1, MU-2	Line sowing , Transplanting INM, IPM, Raised Bed	2000
Rabi	Wheat Gram	HI-1544, C-366, JW-3465, MP 3336 JW-1202 JG-24, JG-11, JG-16, JG-12, JG 63, JG 6	Line sowing , Transplanting	2000

	Linseed Mustard Pea	JLS-67, JLS-73JLS-41 PKDL 41JL-66 JM-2JM-3JMM 99 IPF 5-19, Kasinandni	INM,IPM, Raised Bed	
Rabi	Tomato Pea Brinjal Okra	Arka Raksak, Arka Samrat,Kashi KashiNandni, IPFD 16-3 Kashi Sandesh,BR-14,Kanhaiya VRO-22,VRO-6	Line sowing ,Transplanting INM,IPM, Raised Bed	2000

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Natural Farming	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 lit (milk)
Azolla Unit	Azolla Pinnata	30square meter	Rs. 4000
Vermi Compost 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
Nursery Unit	Vegetable seedling (chilly tomato and brinjal) drumstick and papaya	250 sqm	60000/year
Biofertilizer unit	Jawahar Biofertilizer Rhizobium Jawahar Biofertilizer Azotobacter Jawahar Trichoderma Jawahar PSB Jawahar Bio-digester	100 sqm	500 lit/year
Micro Irrigation Unit	Drip irrigation for Vegetable and orchards	4000 sqm	Water saving 70 %
Farm Machinery nit	Tractor, Seed Drill, Cultivator, MB Plough, Harrow and other	10 Nos	Saving Cost 40 %
Solar power Irrigation	Solar Power Irrigation Unit 5 kW	100 sqm	-
Water conservation pond	Water conservation pond for water recharge	4000 sqm	20000 meter cube water recharge
Rain water harvesting	Roof Top Rain water Harvesting	4 Nos	500 meter cube water recharge
Medical Garden	Aloe Vera . Tulsi, Ajwain, Ashwagandha, Isabgol, Bhui	100 sqm	-

	Aounla, Brahmi, Makoy, Kalihar, Mulaithi, Pattharchur		
Nursery unit	Seasonal Fruit and Vegetable	200 sqm	100 kg Vegetable production
Crop cafeteria	Kharif 2024, and Rabi-2024- 25	4000 sqm	Seed production

ANNUAL ACTION PLAN 2024

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.2023)

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. Mrigendra Singh	Senior Scientist & Head	Multidisciplinary	37400-69000 Level 14 (182700)	01-02-2007	01-02-2007	9425183232	mrigendra1968@gmail.com	
2	Subject Matter Specialist	Smt. Alpana Sharma	Scientist	Home Science	15600-39100 Level12 (110400)	13-07-2007	19-07-2010	9301111646	alpanasanu@rediffmail.com	
3	Subject Matter Specialist	Dr. Braj kishor Prajapati	Scientist	Agronomy	15600-39100 Level10 (75200)	12-09-2017	20-09-2021	9012012068	Brajkishorprajapati1@gmail.com	
4	Subject Matter Specialist	Sh. Deepak Chouhan	Scientist	Agricultural Engineering	15600-39100 Level10 (68800)	10-10-2017	10-10-2017	9424023760	deepakchouhan22@gmail.com	
5	Subject Matter Specialist	Vacant								
6	Subject Matter Specialist	Vacant								
7	Subject Matter Specialist	Vacant								
8	Programme Assistant	Shri Bhagwat Prasad Pandre	P A Agroforestry	Agro forestry	9300-34800 Level 10 (48100)	28-01-2019	28-01-2019	7697024787	29bhagwatpandre@gmail.com	
9	Computer Programmer/ Programme Assistant	Shri Rishiraj Negi	Tech Officer Computer	Computer	9300-34800 Level 10 (70000)	04-04-2008	04-04-2008	9424335040	rishirajnegi@gmail.com	
10	Farm Manager	Vacant								
11	Assistant	Smt. Asha Shrivatava	Asstt. Grade II	Asstt. Grade II	9300-34800 Level 8 (54100)	12-08-1996	12-08-1996	9977170453	kvkshahdol@rediffmail.com	
12	Jr. Stenographer / Comp. Operator	Smt. Abha Shyam	Lab Technician	Lab Technician	9300-34800 Level 8 (35100)	31-07-2003	26-08-2021	9981694669	kvkshahdol@rediffmail.com	
13	Driver	Shri Badri Prasad Yadav	Driver cum Mechanic	Driver	5200-20200 Level 6 (32100)	02-02-1999	07-07-2008	9424931288	kvkshahdol@rediffmail.com	
14	Driver	Shri Biran Prasad Pradhan	Driver cum Mechanic	Driver	5200-20200 Level 4 (22600)	12-07-2018	12-07-2018	9981070716	kvkshahdol@rediffmail.com	
15	Supporting staff	Shri Kamlesh Kol	Peon	Peon	4440-7440 Level 1 (22100)	26-11-2012	06-11-2019	6266836323	kvkshahdol@rediffmail.com	
16	Supporting staff	Vacant								

1.3 Total land with KVK (in ha): 15.075

S. No.	Item	Area (ha)
1	Under KVK Buildings and Demonstration Units	1.214
2	Farm	13.683
3	Residential building	0.178
Total		15.075

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	2004	450000	-	This is not working as per govt. motor vehicle act. 15 year old vehicle not use. (Condemnation process completed)
Motor Cycle 2	2005	50000	88192	This is not working as per govt. motor vehicle act. 15 year old vehicle not use.
Bolero(Jeep)	2012	501521	276016	(Condemnation process completed)
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	

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 & Rabi
2	AES – 2 Ag. +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	205.157
Rabi	94.090
Zaid	
Cropping Intensity	141 %

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, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	0	28.8	8.1
Feb, 23	0	31.9	9.6
Mar, 23	3.9	34.7	14
Apr, 23	24.2	38.4	18.4
May, 23	5.8	42.2	26.1
Jun, 23	112.8	38.9	20.1
July, 23	117.6	32.4	24.9
Aug., 23	112.9	30.5	24.1
Sept., 23	116.5	33.1	23.6
Oct. 23	13.3	35.2	19.8
Nov. 23	2.5	27.8	13.1
Dec. 23	19.4	24.0	17.2

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 (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Shahdol	Sohagpur	Sinduri Bharri, Pathra, Sigudi, Amraha, Dadratola	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	Jalditola, Jarwahi			
3	Shahdol	Jaisinghnagar	Meethi, Jamuniya			
4	Shahdol	Gohparu	Khama, Bareli			

Priority / Thrust areas

S. No.	Particulars
1.	Crop improvement and diversification
2.	Seed replacement
3	Pest management through
4	Integrated plant nutrient management
5	Soil and Water conservation
6	Farm Mechanization and Small farm Implements
7	Promotion of rural entrepreneurship for additional income generation and employment generation
8	Livestock Production & Management
9	Annual house hold nutritional security
10	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
18	115	19+12	117+525

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
117	2011	516	52836+ Mass

Seed Production (Qtl.)	Planting material (Nos.)
-	Fruit sapling – 1200, Vegetable seedling – 8,500

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title e 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	Crop Production	Kutki	Low yield of Kutki due to less seed replacement and use of old variety like JK 36	Assessment of HYV of Kutki JK4 and CG-1 under Kutki-Mustard/ Chickpea cropping sequence					Seed
		Paddy	Low yield of paddy due to weed infestation in Paddy Crop	Assessment of performance of Pre & Post emergence herbicides in Direct seeded rice					Weedicide
		Kodo	Low yield of Kodo due to less seed replacement and use of old variety		Demonstration of HYV variety JK 137 of kodo under Kodo - mustard cropping sequence				Seed
		Paddy	Low yield of paddy due to less seed replacement and use of old variety		Demonstration of HYV variety (JR 81/JR 206) under Rice-Chickpea cropping sequence				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 cropping system				Seed & Biofertilizers
		Mustard	Low yield of Mustard due to less seed replacement, use of old variety JMM 99 and broadcasting of seed without seed treatment with biofertilizers	Assessment of use of biofertilizers with HYV of Mustard (NRCHB 101/Giriraj and Pusa Mustard 30) under Kutki-Mustard cropping sequence					Seed & Biofertilizers
2	Agricultural Engineering	Paddy / Riding type paddy transplanter	Manually transplanting - zigzag transplanting, resulting in problems during intercultural operation ultimately leading to loss of time and energy.	Assessment of Riding type paddy transplanter					Seed and Hiring machinery
		Soybean / Ridge & furrow sowing, Ridge bed sowing	Low yield of Soybean due to poor plant population, moisture stress and / or water stagnation due to heavy down pour.	Assessment of different sowing method for soybean sowing					Seed and Hiring machinery
		Linseed / Seed Cum Fertilizer drill	Low yield and problem in intercultural operation in linseed crop due to broadcasting sowing (Farmers practice) and uneven flood irrigation in field.	Assessment of seed cum fertilizer drill for linseed sowing					Seed and Hiring machinery
		Onion / perforated pipe irrigation	Low yield in Onion crop due to flood irrigation in field and uneven irrigation due to excess water requirement for irrigation.	Assessment of perforated pipe irrigation in onion crop.					Seed and Provide Irrigation system
		Summer greengram / Inclined plate planter	Low yield and problem in intercultural operation in Summer Greengram crop due to broadcasting sowing (Farmers practice) and uneven flood irrigation in field.	Assessment of inclined plate planter for summer greengram sowing with water saving irrigation system.					Seed and Hiring machinery
		Paddy / Direct sowing of paddy by	Unavailability of field for timely wheat sowing and More time loss for field preparation, transplanting and water loss in		Demonstration of direct sowing of paddy by seed drill for timely sowing in upland rice leading to subsequent timely sowing of				Seed and Hiring machinery

		seed drill	puddling		wheat				
		Maize / Broad bed planter	Low yield of Maize due to poor plant population, moisture stress and / or water stagnation during heavy down pour.		Demonstration of Maize sowing by Broad bed planter				Seed and Hiring machinery
		Paddy / Cono weeder	For weeding operation More time loss in conventional method and shortage of availability of labour and plant growth is less		Demonstration of cono weeder in SRI paddy crop				Seed and Provide Machine
		Wheat / Zero tillage seed drill	Field preparation requires 2- 3 times tractor drawn cultivator resulting in time and money loss		Demonstration of Zero tillage in wheat sowing				Seed and Hiring machinery
		Tomato / Manually operated single row vegetable transplanter	More labour required for transplanting of vegetable seedling. Also, in case of mulch it is very tedious and requires more time for transplanting.		Demonstration of manually operated single row vegetable transplanter for vegetable seedling in Hi-Tech horticulture				Seed and Provide Machine
		Chickpea / Ridge furrow seed cum fertilizer drill	Low yield of chickpea due to non- uniform plant population		Demonstration of ridge furrow seed cum fertilizer drill for sowing chickpea				Seed and Hiring machinery
3	IFS	Crops+ Poultry birds (Narmada nidhi)+veget ables+ 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
6	Agroforest ry.	Paddy	Low yield due to old variety MTU 1010 under agro forestry system	Assessment of HYV of Paddy (JR 81 / JR 206) under Acacia nilotica traditional tree based Agri-silviculture system.					Seed
		Brinjal	No crop grown between spacing of mango tree	Assessment of Brinjal under two year old mango tree based Agri-Olericulture system.					Seed
		Mustard	No crop grown between spacing of Munga tree.	Evaluation of Mustard variety (PM 30/NRC HB-101) under Drumstick based Agri-horticulture system.					Seed
		Wheat	No crop grown between spacing of aonla/eucalyptus tree	Assessment of wheat variety JW 3382 under Aonla/Eucalyptus tree based Agri-silviculture system.					Seed
		(Napier grass- IGFR1 3)	Non availability of green fodder round the year Especially in Summer Season.		Demonstration of High Yielding Variety of (Napier grass- IGFR1 3) Fodder Production under Silvi-pasture system.				
		African tall/Maize	Non availability of green fodder round the year Especially in Summer Season.		Demonstration of High Yielding Fodder Production (African tall/Maize grass) under Silvi-pasture system				
		Turmeric (Roma)	Farmers do not grow any crop under the shade of tree row at any stage of plants growth.		Demonstration of High Yielding Variety (Roma) Turmeric based Agrihorticulture System by Growing Turmeric under the shade of Fruit tree				
		Wheat /Gram-JG - 36	Non Availability of suitable Agro Forestry Model based on soil & climate		Demonstration of Wheat /Gram based Agro Forestry System on soil & climate of Shahdol Distt. Of M.P.				
7	Nutritional Security	Wheat+Kodo flour	Malnutrition among pre school children due to low nutrient diet.	Assessment of effect of supplementation of nutritious energy balls (Ladoo) on malnourished preschool children		Preparation of low cost diet	Preparation of low cost diet	Method demonstration	Drumstick leaf powder , wheat flour, besan, jaggery , oil/ghee
		Kodo+ Greengram+ Rice	Malnutrition among infants due to low nutrient diet	Assessment of weaning food rich with ARF for Malnourished infants based on kodo,		Preparation of low	Preparation of low cost diet	Method demonstration	kodo, greengram and rice

				greengram and rice		cost diet		onst ratio n	
		Paddy	Malnutrition among farm families		Demonstration on bio-fortified variety of Paddy – CR Dhan 310 to improve the nutrition status of the farm family	Establi shment of kitchen gardeni ng	Kitchen gardenin g		Seed, Planting material
					Demonstration on Nutritional Kitchen Garden				
		Drumstick leaf / powder	Malnutrition among adolescent girls due to low nutrient diet.		Demonstration of drumstick (Moringa oleifera) dry leaf powder as daily dietary supplement for anemic adolescent girls	Prepar ation of low cost diet	Preparati on of low cost diet	Met hod dem onst ratio n	Drumstick leaf powder
		Oyster mushroom	High magnitude of malnutrition among farm families		Demonstration on income enhancement of FW through Mushroom production			Met hod dem onst ratio n	Mushroom span and other inputs
		Chickpea + Wheat	Prevalence of malnutrition in children of age -3-5 years	Assessment of malted sattu (Sprouted chick pea+ sprouted wheat) for Malnourished Children		Prepart ion of malted sattu Importa nce of malted sattu	Prepartio n of malted sattu Importan ce of malted sattu	Met hod dem onst ratio n	Chickpea, Wheat, oat
			Malnutrition and calcium deficiency in farmwomen (above 40yrs)	Assessment of calcium rich nutritious porridge for malnourished farmwomen (above 40yrs)					
8	Integrated livestock managem ent	Poultry	Low egg and meat production due to improper feeding		Demonstration of Azolla for poultry birds under backyard poultry system				Azolla culture

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Millet	Vegetables	Fruits	Tuber Crops	Plantation crops	Other	TOTAL
Varietal assessment				1						1
Crop production	1	1								2
Farm mechanization	1	1								2
Resource conservation		1	1				1			3
Agroforestry	2	1			1					4
Nutritional security									4	4
Nutritional security(Other)										
TOTAL	4	4	1	1	1		1		4	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
IFS		1					1	2
TOTAL		1					1	2

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	HYV of Kutki JK4	
	T3	HYV of Kutki CG-1	
Source of technology	JNKVV (2016)		
Plot size	0.4 ha		
No. of farmers	5		
Total cost	Rs3000		
Critical input	Rs 100/kg (Kutki seed)		

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of plants/ Sqm, Yield(q/ha) Cost of cultivation, Net return, C:B Ratio Adoptability of technology

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:	2024
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:	20/07/24
Date of harvesting:	25/11/24
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 performance of Pre & Post emergence herbicides in Direct seeded rice	
Problem diagnosed	Low yield of paddy due to weed infestation in Paddy Crop	
Farmers’ Practices	Shortage of skilled labour, high input costs	
Details of technologies selectedfor assessment	T1	Farmers Practice (Manual Weeding)
	T2	Pendimethalin 30 EC @1.5 kg/ha + 25 DAT hand weeding
	T3	Pendimethalin 30 EC @1.5 kg/ha + Bispyribac-sodium 10SC @20 g/ha
Source of technology	IARI, New Delhi & Singh <i>et al.</i> , 2016 & DWR, JBP, 2017	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs 12000	
Critical input	Rs 2400 /farmer (Weedicide)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of effective Tiller/ Sqm, Yield(q/ha) Cost of cultivation, Net return, C:B Ratio Adoptability of technology	

Details of On Farm Trial (OFT)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of performance of Pre & Post emergence herbicides in Direct seeded rice
Year/Season:	2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of paddy due to weed infestation in Paddy Crop
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-	Farmers Practice (Manual Weeding)
T2 –Recommended Practice-	Pendimethalin 30 EC @1.5 kg/ha + 25 DAT hand weeding
T3- Recommended Practice-	Pendimethalin 30 EC @1.5 kg/ha + Bispyribac-sodium 10SC @20 g/ha
Date of sowing:	10/07/24
Date of harvesting:	15/11/24
Source of technology:	IARI, New Delhi & Singh <i>et al.</i> , 2016 & DWR, JBP, 2017
Characteristics of technology:	Weedicide
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	T1	Cultivation of crop (Rice-wheat system)
	T2	Rice-wheat/chickpea +Poultry birds (Narmada nidhi)
	T3	T2 + compost
Source of technology	ICAR-IIFSR, Modipuram (2016)	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs 10000	
Critical input	Rs 40/birds	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield(q/ha) Net return, C:B Ratio Adoptability of technology	

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:	2024
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:	22/07/24
Date of harvesting:	20/11/24
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 assessment	T1	Cultivation of crop (Paddy-wheat system)+Pond
	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 9500	
Critical input	Rs 55/Bird (Duck chickes)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield(q/ha) Net return, C:B Ratio Adoptability of technology	

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:	22/07/24
Date of harvesting:	25/11/24
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/Giriraj 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
	T2HYV of Mustard NRCHB 101/Giriraj 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. 3750
Critical input	Rs 750 (Mustard seed and biofertilizers)
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. pf silique/plants, yield q/ha B:C ratio, Net income, cost of cultivation Adoptability

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:	27/10/24
Date of harvesting:	22/02/24
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	Paddy / Riding type paddy transplanter
Title of on farm trial	Assessment of Riding type paddy transplanter
Problem diagnosed	Manually transplanting - zigzag transplanting, resulting in problems during intercultural operation ultimately leading to loss of time and energy

Farmers’ Practices	Manually Transplanting	
Details of technologies selected for assessment	T1	Broadcasting
	T2	Manually Transplanting
	T3	Riding type paddy transplanter
Source of technology	CIAE Bhopal, 2019	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs 19000	
Critical input	Rs 3800	
Performance indicators: (i) Technical- (ii) Economic (iii) Social –	Labour Requirement(No./ha), Field capacity(ha/hr), Plant Population (No/m2), Operational Cost(Rs./ha or Rs./hr), Yield(q), B:C Ratio	

Details of On Farm Trial (OFT)

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of Riding type paddy transplanter
Year/Season:	Kharif – 2024
Farming situation:	Semi- irrigated
Problem diagnosis:	Manually transplanting - zigzag transplanting, resulting in problems during intercultural operation ultimately leading to loss of time and energy
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting
T2 –Recommended Practice-	Manually Transplanting
T3- Recommended Practice-	Riding type paddy transplanter
Date of sowing:	22/07/24
Date of harvesting:	20/11/24
Source of technology:	CIAE Bhopal, 2019
Characteristics of technology:	Riding type paddy transplanter
Name of Crop/Enterprises:	Paddy / Riding type paddy transplanter
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7

Crop / Enterprise	Soybean / Ridge & furrow sowing, Ridge bed sowing	
Title of on farm trial	Assessment of different sowing method for soybean sowing	
Problem diagnosed	Low yield of Soybean due to poor plant population, moisture stress and / or water stagnation due to heavy down pour	
Farmers’ Practices	Flat- bed sowing	
Details of technologies selected for assessment	T1	Flat- bed sowing
	T2	Ridge & furrow sowing
	T3	Ridge bed sowing
Source of technology	CIAE Bhopal, 2018	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	3800	
Critical input	19000	
Performance indicators: (i) Technical- (ii) Economic (iii) Social –	Field capacity (ha/hr), Operational Cost(Rs./ha or Rs./hr), Plant population (No./m2), Plant height at harvest (cm), Root length at 60 DAS (cm), Number of root nodules per plant at 60 DAS (No./plant), No. of branches at harvest (No./plant), Yield(q), B:C Ratio	

Details of On Farm Trial (OFT)

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of different sowing method for soybean sowing
Year/Season:	Kharif – 2024
Farming situation:	Semi- irrigated
Problem diagnosis:	Low yield of Soybean due to poor plant population, moisture stress and / or water stagnation due to heavy down pour
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	10

Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Flat- bed sowing
T2 –Recommended Practice-	Ridge & furrow sowing
T3- Recommended Practice-	Ridge bed sowing
Date of sowing:	15/07/2024
Date of harvesting:	10/11/2024
Source of technology:	CIAE Bhopal, 2018
Characteristics of technology:	Ridge & furrow method of soybean sowing , Ridge bed method of sowing of soybean
Name of Crop/Enterprises:	Soybean / Ridge & furrow sowing, Ridge bed sowing
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-8

Crop / Enterprise	Linseed/Seed Cum Fertilizer drill	
Title of on farm trial	Assessment of Seed cum fertilizer drill for Linseed sowing with water saving irrigation system.	
Problem diagnosed	Low yield and problem in intercultural operation in linseed crop due to broadcasting sowing (Farmers practice) and uneven flood irrigation in field.	
Farmers' Practices	Broadcasting	
Details of technologies selected for assessment	T1	Broadcasting and flood irrigation
	T2	Seed Cum Fertilizer drill and flood irrigation
	T3	Seed Cum Fertilizer drill and sprinkler irrigation
Source of technology	CIAE, Bhopal (2000)	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	2200	
Critical input	11000	
Performance indicators: (i) Technical- (ii) Economic (iii) Social –	Field capacity(ha/hr), Operational Cost (Rs./ha or Rs./hr), Water productivity (Kg/m3), Yield(q), B:C Ratio	

Details of On Farm Trial (OFT)

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of Seed cum fertilizer drill for Linseed sowing with water saving irrigation system.
Year/Season:	Rabi – (2024 – 25)
Farming situation:	Irrigated
Problem diagnosis:	Low yield and problem in intercultural operation in linseed crop due to broadcasting sowing (Farmers practice) and uneven flood irrigation in field.
Thematic area:	Resource Conservation
No of trials:	5
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting and flood irrigation
T2 –Recommended Practice-	Seed Cum Fertilizer drill and flood irrigation
T3- Recommended Practice-	Seed Cum Fertilizer drill and sprinkler irrigation
Date of sowing:	20/11/2024
Date of harvesting:	10/03/2025
Source of technology:	CIAE, Bhopal (2000)
Characteristics of technology:	Line sowing and Water saving, Resource conservation technology
Name of Crop/Enterprises:	Linseed/Seed Cum Fertilizer drill
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-9

Crop / Enterprise	Onion / perforated pipe irrigation	
Title of on farm trial	Assessment of perforated pipe irrigation in onion crop.	
Problem diagnosed	Low yield in Onion crop due to flood irrigation in field and uneven irrigation due to excess water requirement for irrigation.	
Farmers' Practices	Zigzag sowing and flood irrigation	
Details of technologies selected for assessment	T1	Flood irrigation
	T2	Perforated pipe irrigation

	T3	
Source of technology	CIAE, Bhopal (2019)	
Plot size	0.1 ha	
No. of farmers	5	
Total cost	6000	
Critical input	30000	
Performance indicators: (i) Technical- (ii) Economic (iii) Social –	Operational Cost (Rs./ha or Rs./hr), Water productivity (Kg/m3), Yield(q), B:C Ratio	

Details of On Farm Trial (OFT)

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of perforated pipe irrigation in onion crop.
Year/Season:	Rabi 2024 – 25
Farming situation:	Irrigated
Problem diagnosis:	Low yield in Onion crop due to flood irrigation in field and uneven irrigation due to excess water requirement for irrigation .
Thematic area:	Resource Conservation
No of trials:	5
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Flood irrigation
T2 –Recommended Practice-	Perforated pipe irrigation
T3- Recommended Practice-	
Date of sowing:	12/11/2024
Date of harvesting:	15/03/2025
Source of technology:	CIAE, Bhopal (2019)
Characteristics of technology:	Line sowing and Water saving
Name of Crop/Enterprises:	Onion / perforated pipe irrigation
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-10

Crop / Enterprise	Summer greengram/Seed Cum Fertilizer drill	
Title of on farm trial	Assessment of inclined plate planter for summer greengram sowing with water saving irrigation system.	
Problem diagnosed	Low yield and problem in intercultural operation in Summer Greemgram crop due to broadcasting sowing (Farmers practice) and uneven flood irrigation in field.	
Farmers' Practices	Broadcasting and flood irrigation	
Details of technologies selected for assessment	T1	Broadcasting and flood irrigation
	T2	Inclined plate planter and flood irrigation
	T3	Inclined plate planter and sprinkler irrigation
Source of technology	CIAE, Bhopal (2000)	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	2600	
Critical input	13000	
Performance indicators: (i) Technical- (ii) Economic (iii) Social –	Field capacity (ha/hr), Operational Cost (Rs./ha or Rs./hr), Water productivity (Kg/m3), Yield (q), B:C Ratio	

Details of On Farm Trial (OFT)

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of inclined plate planter for summer greengram sowing with water saving irrigation system.
Year/Season:	Summer – 2025
Farming situation:	Irrigated
Problem diagnosis:	Low yield and problem in intercultural operation in Summer Greemgram crop due to broadcasting sowing (Farmers practice) and uneven flood irrigation in field.
Thematic area:	Resource Conservation
No of trials:	5
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting and flood irrigation
T2 –Recommended Practice-	Inclined plate planter and flood irrigation
T3- Recommended Practice-	Inclined plate planter and sprinkler irrigation
Date of sowing:	25/03/2025
Date of harvesting:	10/05/2025
Source of technology:	CIAE, Bhopal (2000)
Characteristics of technology:	Line sowing and Water saving, Resource conservation technology
Name of Crop/Enterprises:	Summer greengram/ Inclined plate planter
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-11

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of HYV of Paddy JR 81 under Acacia nilotica 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 Acacia nilotica
Source of technology	Annual report of CAFRI, Jhansi (2019) JNKVV 2018	
Plot size	1 hac.	
No. of farmers	05	
Total cost	Rs 29000	
Critical input	Paddy seed.	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	- - - -	

Details of On Farm Trial (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:	2024/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-12

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of Brinjal under 2 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 selectedfor 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	3500 Rs	
Critical input	220 gm	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	- Plant height (cm), Yield/ha, B:C Ratio - - -

Details of On Farm Trial (OFT)

Name of Discipline	Agro forestry
Title of on-farm trial:	Assessment of Brinjal/Tomato under 2 year old mango tree based agri-olericulture system.
Year/Season:	2024/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-13

Crop / Enterprise	Mustard	
Title of on farm trial	Evaluation of Mustard variety (PM 30/NRC HB-101) and Linseed under Drumstick based Agri-horticulture system.	
Problem diagnosed	No crop grown between spacing of Munga tree.	
Farmers’ Practices	No crop	
Details of technologies selectedfor assessment	T ₁	No crop
	T2	Mustard under Drumstick based Agri-horticulture system
	T3	Linseed under Drumstick based Agri-horticulture system
Source of technology	Annual report of CAFRI, Jhansi, 2019	
Plot size	1 hac	
No. of farmers	05	
Total cost	3500Rs.	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	- - - -	

Details of On Farm Trial (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:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	No crop grown between spacing of Drumstick 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-	Mustard under Drumstick based Agri-horticulture system
T3- Recommended Practice-	Linseed under Drumstick based Agri-horticulture system
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-14

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 selectedfor assessment	T ₁	No crop grown between the Plants
	T2	Wheat variey JW 3382 unnder Anola/Eucalyptus tree based agri-silviculture system.
	T ₃	Wheat variey HI 8759 unnder Anola/Eucalyptus tree based agri-silviculture system.
Source of technology	Annual report of CAFRI, Jhansi, 2019	
Plot size	01 hac	
No. of farmers	05	
Total cost	18500	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	- - - -	

Details of On Farm Trial (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:	2024/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 grown between the Plants
T2 –Recommended Practice-	Wheat variey JW 3382 unnder Anola/Eucalyptus tree based agri-silviculture system.
T3- Recommended Practice-	Wheat variey HI 8759 unnder Anola/Eucalyptus tree based agri-silviculture system.
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	-

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 weaning food rich with ARF for Malnourished infants based on kodo, greengram and rice
Year/Season:	Kharif , 2024
Problem diagnosis:	High magnitude of malnutrition in infants and unavailability of low cost weaning foods
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-	Rice
T2 –Recommended Practice-	Paushtik Khichdi (Rice35 g +Greengram 10 g+ ARF 5 g) 2-3 spoons for 4-6 times a day for 3 months
Source of technology:	Dietary Guidelines NIN (2011)

Characteristics of technology:	Paushtik Khichdi (Rice35 g +Greengram 10 g+ ARF 5 g) 2-3 spoons for 4-6 times a day for 3 months
Name of Crop/Enterprises:	Paushtik Khichdi (Rice35 g +Greengram 10 g+ ARF 5 g)
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 2

Title of on-farm trial:	Assessment of calcium rich nutritious porridge for malnourished farmwomen (above 40yrs)
Year/Season:	Kharif , 2024
Problem diagnosis:	Malnutrition and calcium deficiency in farmwomen (above 40yrs)
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-	Rice, Pigeonpea and maize Porridge with Dry drumstick leaf powder @ 10g/day/head
Source of technology:	Deptt of Food Science and Technology, University of Mapalana, Srilanka (2017)
Characteristics of technology:	Rice, Pigeonpea and maize Porridge with Dry drumstick leaf powder @ 10g/day/head
Name of Crop/Enterprises:	Rice, Pigeonpea and maize Porridge with 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 malted sattu (Sprouted chick pea+ sprouted wheat) for Malnourished Children
Year/Season:	2024-25 / Rabi
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	

OFT: 4

Title of on-farm trial:	Assessment of effect of supplementation of nutritious energy balls (Ladoo) on malnourished preschool children
Year/Season:	2024-25/ Rabi
Problem diagnosis:	Malnutrition among pre school children due to low nutrient efficient diet.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	10
No. of farmers/farm women involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Daily diet
T2 –Recommended Practice-	Daily diet+ Consumption of nutritious energy balls (Ladoo) prepared from Wheat +Gram Flour (Besan)+ Moringa leaf powder
Source of technology:	BMN College Of Home Science , Mumbai (2021)
Characteristics of technology:	Daily diet+ Consumption of Ladoo prepared from Wheat +Gram Flour (Besan)+ Moringa leaf powder

Name of Crop/Enterprises:	Nutritious energy balls (Ladoo)
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Dept. 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, 2024	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, 2024	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,2024-25	-	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, 2024	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, 2024	2	5	Plant height (cm) , Capsule /plant (No) , Yield (q/ha), B: C Ratio
6	Napier grass	AGF	Demonstration of High Yielding Variety of (Napier grass- IGFRl 3) Fodder Production under Silvi-pasture system.	Root Slip	Kharif/ 2024	01	05	Yield/ha, BC Ratio
7	Maize grass	AGF	Demonstration of High Yielding Fodder Production (African tall/Maize grass) under Silvi-pasture system	Seed	Kharif/ 2024	01	05	Yield/ha, BC Ratio
8	Turmeric	AGF	Demonstration of High Yielding Variety (Roma) Turmeric based Agrihorticulture System by Growing Turmeric under the shade of Fruit tree	Rhizome	Kharif/ 2024	01	05	Yield/ha, BC Ratio
9	Wheat	AGF	Demonstration of Wheat /Gram based Agro Forestry System on soil & climate of Shahdol Distt. Of M.P.	Seed	Rabi/ 2024	01	05	Yield/ha, BC Ratio
10	Vegetables	Demonstration on Nutritional Kitchen Garden	Nutritional garden	Seed and seedlings	Round the year 2024	01	12	Per capita availability
11	Paddy Bio-fortified Variety CR Dhan 310	Demonstration on bio-fortified variety of Paddy – CR Dhan 310	Paddy Bio- fortified Variety CR Dhan 310	Paddy Bio-fortified Variety CR Dhan 310	Kharif 2024	01	05	Nutrient Intake, Biometric measurements, sensory parameters
12	Mushroom production	Demonstration on income enhancement of FW through Mushroom production	Oyster mushroom production on paddy straw	Oyster mushroom production on paddy straw	Rabi 2024	01	10	Yield(Kg/bag), Cost of input, Incremental income, Net Return, Saving in Rs., B:C ratio
13	(Moringa oleifera) dry leaf powder	Demonstration of drumstick (Moringa oleifera) dry leaf powder as daily dietary supplement for anemic adolescent girls	(Moringa oleifera) dry leaf powder	(Moringa oleifera) dry leaf powder	Rabi 2024	01	10	Nutrient Intake, Biometric measurements, sensory parameters

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/ 2024
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

Technology for demonstration	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
Demonstration of direct sowing of paddy by seeddrill	Seed cum ferti drill	Paddy	Kharif – 2024	5	2	Seed and Hiring machinery	Labour Requirement (Man-hr/ha), Field capacity (ha/hr), Operational Cost (Rs./ha or Rs./hr), Energy Requirement (MJ/ha), Yield (q/ha), B:C Ratio		
Demonstration of Broad bed planter for maize sowing	Broad bed planter	Maize	Kharif – 2024	5	2	Seed and Hiring machinery	Labour Requirement (Man-hr/ha), Field capacity (ha/hr), Operational Cost (Rs./ha or Rs./hr), Yield (q/ha), B:C Ratio		
Demonstration of weed management through cono weeder in SRI paddy crop	Cono Weeder	Paddy	Kharif - 2024	5	2	Seed and Provide Machine	Labour Requirement (Man-hr/ha), Field capacity (ha/hr), Operational Cost (Rs./ha or Rs./hr), Plant height (cm), Number of tillers (No.) Yield (q/ha), B:C Ratio		
Demonstration of zero tillage seeddrill for wheat sowing	Zero till seed drill	Wheat	Rabi – 2024 – 25	5	2	Seed and Hiring machinery	Labour Requirement(No./ha), Field capacity(ha/hr), Time requirement (hr/ha), Operational Cost (Rs./ha or Rs./hr), Energy Requirement(MJ/ha), Yield(q), B:C Ratio		
Demonstration of manually operated singal row vegetable transplanter	Singal row Vegetable transplanter	Tomato	Rabi – 2024 – 25	5	2	Seed and Provide Machine	Labour Requirement(No./ha), Field capacity(ha/hr), Field Efficiency(%), Time requirement (hr/ha), Operational Cost (Rs./ha or Rs./hr), Percentage of mortality (%), Yield(q), B:C Ratio		
Demonstration of ridge furrow seed cum fertilizer drill for chickpea sowing	Seed cum ferti drill	Chickp ea	Rabi – 2024 – 25	5	2	Seed and Hiring machinery	Field capacity(ha/hr), Plant population (No/m2), Plant height (cm), Number of pod (No/plant), Yield(q), 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

*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

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	03	03	-	30	30	-	40	40	70
Design and development of low/minimum cost diet	01	01	-	10	10	-	10	10	20
Designing and development for high nutrient efficiency diet	03	03	-	30	30	-	30	30	60
Minimization of nutrient loss in processing	01	01	-	10	10	-	10	10	20
Gender mainstreaming through SHGs									
Value addition	01	01	-	10	10	-	10	10	20
Income generation activities for empowerment of rural Women	03	9	10	20	30	10	20	30	60
Location specific drudgery reduction technologies									
Women and child care	03	03	-	30	30	-	30	30	60
Total	13	13	0	130	130	0	140	140	270
VI Agril. Engineering									
Total	12	12	75	25	100	97	32	129	229
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									
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	13	13	48	29	77	109	82	191	268
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production									
Bee-keeping									
Seed production									
Planting material production									
Vermi-culture									
Value addition									
Sheep and goat rearing									
Para extension workers									
Repair and maintenance of farm machinery and implements	1	7	5	3	8	8	4	12	20
Skill Development Training on Micro Irrigation Technician	1	7	5	3	8	8	4	12	20
TOTAL									
(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									
Care and maintenance of farm machinery and implements	1	7	5	3	8	8	4	12	20
Any other (Pl. Specify)									
Agroforestry									
TOTAL									

(B) OFF Campus

XI Agro-forestry	14	14	44	29	73	150	80	230	303
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	1	5	4	1	5	6	3	9	14
IFS for employment generation	1	5	4	1	5	6	3	9	14
Sheep and goat rearing									
Agro forestry	1	29	8	5	13	10	6	16	29
TOTAL									
(C) Extension Personnel									
Crop Production	3	3	8	10	18	20	10	30	48
Home Science									
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										
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	Soil health and fertility management -Integrated Nutrient management	1	4	1	5	6	3	9	14
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
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
Oct	F/FW	Crop production- water management	1	3	3	6	7	3	10	16
Nov	F/FW	Soil health and fertility management -Integrated Nutrient management	1	4	1	5	6	3	9	14
Nov	F/FW	Soil health and fertility management -Production of organic inputs	1	2	4	6	6	4	10	16
Dec	F/FW	Crop production- Integrated farming	1	3	3	6	7	3	10	16
Dec	F/FW	Crop production- weed management	1	2	4	6	6	4	10	16
Agricultural Engineering										
January	F/ FW	Precautions at the time of threshing	01	5	3	8	8	4	12	20
February	F/ FW	Use of different types machinery for wheat harvesting	01	5	3	8	8	4	12	20
March	F/ FW	Different types of implements use for deep summer ploughing	01	7	1	8	8	4	12	20
April	F/ FW	Types of rain water harvesting structures	01	8	0	8	10	3	13	21
April	F/ FW	Maintenance of water conservation structures	01	9	1	10	10	2	12	22
June	F/ FW	Agricultural mechanization in paddy cultivation	01	10	1	11	9	1	10	21
July	F/ FW	Use of seed drill for paddy sowing	01	7	2	9	8	1	9	18
July	F/ FW	Use of plastic in agriculture	01	2	4	6	6	4	10	16
August	F/ FW	Use of different types of sprayers	01	3	3	6	7	3	10	16
October	F/ FW	Importance of zero tillage machine in wheat sowing	01	10	1	11	9	1	10	21
November	F/ FW	Importance of drip irrigation in vegetable crops	01	7	2	9	8	1	9	18
December	F/ FW	Maintenance of micro irrigation system	01	2	4	6	6	4	10	16
Horticulture										
Livestock production										
Home Science										
Jan	FW	WOE- Income generation through Mushroom Production and its value addition	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- Household food security by kitchen gardening and nutrition gardening	01	-	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- Designing and development of nutrient efficient diet	01	-	10	10	-	10	10	20

July	FW	WOE- Designing and development of nutrient efficient diet	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 – Adolescent girls	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										
June2024	Farmers & Farm women	Cultivation of Turmeric under the Shade of Mango tree.	01	05	03	08	08	04	12	20
June2024	Farmers & Farm women	Planting techniques of Drumstick and after its care.	01	05	03	08	08	04	12	20
July2024	Farmers & Farm women	Cultivation of Fodder (Napier) Production.	01	05	03	08	08	04	12	20
Jan2025	Farmers & Farm women	Wasteland Development By different Method of Agro forestry.	01	05	03	08	08	04	12	20
July2024	Farmers & Farm women	Scientific Cultivation of Napier grass and their Importance.	01	05	03	08	08	04	12	20
Dec2024	Farmers & Farm women	Guava Based Agro forestry technique and their Importance	01	05	03	08	08	04	12	20
Aug2024	Farmers & Farm women	Eucalyptus, Aonla based Agro forestry System and their Importance I human life.	01	05	03	08	08	04	12	20
Oct2024	Farmers & Farm women	Integrated Farming system and their Importance.	01	05	03	08	08	04	12	20
Sept2024	Farmers & Farm women	Training on Drumstick plantation and its care.	01	05	03	08	08	04	12	20
Aug2024	Farmers & Farm women	Training on Paddy with Acacia nilotica	01	05	03	08	08	04	12	20
Sept2024	Farmers & Farm women	kharif crop with Drumstick & Mango based Agro forestry System.	01	05	03	08	08	04	12	20
Feb.2025	Farmers & Farm women	Production Technology of Mahua seed in shahdol Region.	01	05	03	08	08	04	12	20
Nov2024	Farmers & Farm women	Importance of Rabi crops along with Plantation.	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	
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	
Agricultural Engineering											
May	F/ FW	Roof top rain water harvesting structures	01	8	0	8	10	3	13	21	
June	F/ FW	Different types of implements use for field preparation in kharif season	01	9	1	10	10	2	12	22	
June	F/ FW	Different sowing techniques for soybean	01	10	1	11	9	1	10	21	
June	F/ FW	Use of broad bed planter for maize sowing	01	7	2	9	8	1	9	18	
September	F/ FW	Importance of boribabdhan for nalabunding	01	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	

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	
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 gardening	01	-	10	10	-	10	10	20
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- Adolescent Girls	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 high nutrient efficient 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										
Jan-2025	Farmers & Farm women	Important role on Bel & custard Apple in Human Life	01	05	03	08	08	04	12	20
June-2024	Farmers & Farm women	Scientific Cultivation of Makka chari based on Ago forestry system.	01	05	03	08	08	04	12	20
March-2024	Farmers & Farm women	Importance of Minor Forest Product for Additional Income.	01	05	03	08	08	04	12	20
April-2024	Farmers & Farm women	Biological Control measure of Insect pest in planted tree and their management.	01	05	03	08	08	04	12	20
May-2024	Farmers & Farm women	Production of Napier grass and for Animal Feed.	01	05	03	08	08	04	12	20
Feb-2025	Farmers & Farm women	Method of Mahua seed /Flowers collection and their Advantage.	01	05	03	08	08	04	12	20
May-2024	Farmers & Farm women	Planting technique of Mango, Teak, and their Management.	01	05	03	08	08	04	12	20
April-2024	Farmers & Farm women	Apiculture and their Practice Management.	01	05	03	08	08	04	12	20
Nov-2024		Training on Arhar Based Agro forestry System.	01	05	03	08	08	04	12	20
Oct-2024	Farmers & Farm women	“Wheat + Bunds on Aonla/Eucalyptus Based Agro Horticulture System.	01	05	03	08	08	04	12	20
Oct-2024	Farmers & Farm women	Training on “Gram + Bunds on Guava/Eucalyptus Based Agro forestry System.	01	05	03	08	08	04	12	20
July-2024	Farmers & Farm women	Training on “Paddy + Bunds on Eucalyptus Based Agro forestry System.	01	05	03	08	08	04	12	20
Dec-2024	Farmers & Farm women	Wasteland Development through Babul, Aonla, plantation.	01	05	03	08	08	04	12	20
14.May-2024	Farmers & Farm women	Intercropping system of different tree along with Rabi Crops.	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
Agricultural Engineering										
February	RY	Skill Development Training on Micro Irrigation Technician	7	5	3	8	8	4	12	20
March	RY	Repair and maintenance of farm machinery and implements	7	5	3	8	8	4	12	20
Horticulture										
Livestock production										
Home Science										
March	RY	Mushroom Production and its value addition	04	05	05	10	05	05	10	20
Dec	RY	Value addition of millets	04	05	05	10	05	05	10	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										

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										
Others-										
Agro forestry-										
Feb-2024	Rural Youth:	“Agro forestry For Additional Income.	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
Agricultural Engineering										
January 2024	INS	Care and maintenance of farm machinery and implements	01	5	3	8	8	4	12	20
Horticulture										
Livestock production										
Home Science										
May	INS	Nutritional importance of millets	01	-	10	10	-	10	10	20
July	INS	Preparation of malted sattu	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	Farmers & Farm women.	Different Intercropping system of different trees along with Kharif Crops and Rabi Crops & their Importance.	01	05	03	08	08	04	12	20
June -2023	Farmers & Farm women.	Wasteland Development through Jetroffa ‘ Aonla, Karanja and Eucalyptus plantation.	01	05	03	08	08	04	12	20
Oct-2023	Farmers & Farm women.	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

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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			848
Mahila Mandals Conveners meetings	02			200			12			212
Celebration of important days (specify)	08			800			80			880
Others (pl. specify)										
Total	516			51178			1658			52836+ Mass

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			
Saplings	Drumstick		500
	Karonda		250
	Papaya		250
	Curry leaves		200
Total			1200
SPICES			
VEGETABLES			
Seedlings	Vegetable seedling (Brinjal, Tomato, Chilli, cabbage and cauliflower)		8500
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	Eisinea foetida	-	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 24	January to March 2024	500
Apr 24	April to June 2024	500
Jul 24	July to September 2024	500
Oct 24	October to December 2024	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	Sinduri Bharri,	Sohagpur	15
2	Pathra	Sohagpur	26
3	Sugudi	Sohagpur	38
4	Amraha	Sohagpur	40
5	Dadratola	Sohagpur	30
6	Jalditola	Burhar	35
7	Jarwahi	Burhar	20
8	Meethi	Jaisinghnagar	70
9	Jamuniya	Jaisinghnagar	60
10	Khama	Gohparu	30
11	Bareli	Gohparu	30

1. No. of farm families selected per village : 15-20
2. No. of survey/PRA to be conducted: Completed

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 Alsi (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	Approx. 5 q
Azolla Unit	Azolla	4	Approx. 50 kg
Polyhouse	Off season vegetables	300	Approx. Broccoli 50 kg, Approx. cucumber 1q
Mist Chamber	Seedlings and saplings	100	Approx. Vegetable seedlings 3000 and 500 saplings
Green House	Off season vegetables	300	Approx. Coriander 25 Kg, strawberry
Meadow Orchard	Guava- Allahabad Safeda	500	Approx. 620 Kg
High Density Orchard	Mango- Amrapali	1700	Approx. 680 Kg
Poultry	Kadaknath & Narmada Nidhi	30	Approx. 100 Chicks.
NADEP	Raw Material and Cow dung	20	Approx. 03 -05q.

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.2023)

[illegible]

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 (specify)	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	27-05-2024
2	25-09-2024

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	Rice- Wheat/Gram/Mustard
2	AES – 2	Greengram/Black gram-Wheat/Gram/Mustard
3	AES – 3	Sesame- Wheat/Gram/Mustard

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
•	•	•	•

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	Water holding capacity is good.	486.2
2	Medium	Well drained and hold moisture well.	211.4
3	Shallow	These soils drain quickly after rain or watering, are easy to cultivate and work	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	110.0	462.00	4200
2	Maize	4.80	10.32	2150
3	Pigeonpea	22.0	30.80	1400
4	Moong	10.0	6.50	650
5	Wheat	118.40	479.52	4050
6	Chickpea	17.30	31.49	1820
7	Lentil	2.90	4.38	1510
8	Mustard	11.30	13.33	1180
9	Linseed	3.20	2.91	910

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0.6		
Feb. 2023	0.0		
Mar. 2023	27.9		
Apr. 2023	5.5		
May. 2023	17.5		
Jun. 2023	104.5		
July. 2023	202.8		
Aug. 2023	231.0		
Sept. 2023	165.9		
Oct. 2023	37.4		
Nov. 2023	5.4		
Dec. 2023	15.0		

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	520237	236.42 MT.	 kg
Buffalo	110319	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	12795	18.67 MT wool	 kg
Goats	299229	1.48 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	8684	---	---
Rabbits			
Poultry			
Hens	333090	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 (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Gopad vanas	Sidhi	Sonakhhand	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

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	65	7	70

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
49	975	53	1870

Seed Production (Qtl.)	Planting material (Nos.)
100	0

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterpr ise	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 activiti es	Suppl y of seeds, plantin g materi als etc.
1	Nutritio nal Security	Paddy	High magnitude of malnutrition among farm families	Assessment of suitability of CR Dhan-310 to improve the nutritional status of the farm family					
2	Nutritio nal security	Drumsti ck leaves powder with amla powde	Malnutrition due to anaemia (75%) in rural women	Assessment of Drumstick leaves powder with amla powder for prevention of anemia					
3	Nutritio nal Security	Spirulin a	Prevalence of malnutrition among children	Assessment of Spirulina Nutberry supplementation on nutritional status of children					
4	Nutritio nal Security	Bathua	Micronutrien t deficiency among farm families (Children below 5 years, adolescent girls)	Management of micronutrient deficiency through blending of bathua powder.					
5	IPM	Brinjal	In effective pest management due to high cost of inpu	Assessment of soaked tobacco (Nicotena tabaccum) for manegement of shoot and fruit borer in Brinjal.					
6	INM	Tomato	Low yield due to imbalance use of fertilizers caused crack in tomato fruits	Assessment of integrate nutrient management in tomato					
7	Varietal	Onion	Low yield of	Assessment of					

	evaluation		onion due to use of inappropriate variety and poor management practices	improved variety of onion Bhima shakti					
8	IDM	Tomato	Low yield due to infestation of wilt diseases	Assessment of bio-pesticides against control of wilt diseases in tomato					
9	IDM	Rice	Severe yield loss (up to 40%) in rice due to severe incidence (up to 60%) of false smut.	Assessment of IDM Modules for management of false smut in rice crop.					
10	IPM	Green gram	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					
11	IDM	Lentil	Yield loss 25-50%	Assessment of integrated wilt disease management in Lentil					
12	IPM	Chickpea	Low yield chickpea crop due to heavy infestation of pod borer	Assessment of IPM modules for the management of Pod borer in chickpea					
13	Nutritional Security	Vegetables	-	-	Demonstration of Nutritional Kitchen garden at backyard.				
14	Income generation	Mushroom	-	-	Demonstration of Oyster mushroom for income generation				
15	Income generation	Poultry	-	-	Demonstration of Poultry breed Kadaknath and Narmada Nidhi				
16	Varietal evaluation	Tomato	-	-	Demonstration of improved variety of Tomato Kashi vishesh				
17	Integrated crop Management	Pea	-	-	Demonstration of improved variety of Pea PSM-3				
18	Integrated Disease management	Sesame	-	-	Demonstration of phytophthora blight disease management in Sesame				
19	Integrated Pest management	Mustard	-	-	Management of aphids in Mustard				

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
Nutritional Security	01	-	-	-	03	-	-	-	-	04
Integrated nutrient management	-	-	-	-	01	-	-	-	-	01
Varietal evaluation	-	-	--	-	01	-	-	-	-	01
IDM	01	-	01	-	01	-	-	-	-	03
IPM	-	-	02	-	01	-	-	-	-	03
TOTAL	02	0	03	0	06	0	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
TOTAL								

Detailed Information about OFT: 01

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 (Nicotena tabaccum) for manegement of shoot and fruit borer in Brinjal
Year/Season:	Kharif, 2023-24
Farming situation:	Irrigated
Problem diagnosis:	In effective pest management due to high cost of input
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-	Limited use of plant protection measure
T2 –Recommended Practice-	Spray of Neem oil @ 2.5 lit./ha
T3- Recommended Practice-	Spray of Soked tobacco @ 1.10 (Tobacoo: water)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Cross sectoral validation of indigenous technology in agriculture document no. 4, ITK code 1417 page no. 74
Characteristics of technology:	-
Name of Crop/Enterprises:	Brinjal (Kharif 2024)

Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 02

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 integrate nutrient management in tomato
Year/Season:	Kharif, 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizers caused crack in tomato 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 fertilizers
T2 –Recommended Practice-	RDF (100: 80: 100) on STV
T3- Recommended Practice-	T2 + use of boran 1kg /ha as basal dose
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR- 2016
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato (Kharif 2024)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 03

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 onion Bhima shakti
Year/Season:	Rabi, 2024-25
Farming situation:	Irrigated

Problem diagnosis:	Low yield of onion due to use of inappropriate variety and poor 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 local variety (Laxmi)
T2 –Recommended Practice-	Use of improved variety Bhima shakti with RDF @ 100: 50:50 NPK/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DOGR- 2011
Characteristics of technology:	-
Name of Crop/Enterprises:	Onion (Rabi 2024-25)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 04

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 control of wilt diseases in tomato
Year/Season:	Tomato (Rabi 2024-25)
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to infestation of wilt 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-	No use of bio-pesticide
T2 –Recommended Practice-	Use of Pseudomonas @ 5kg /ha for soil treatment
T3- Recommended Practice-	use of trichoderma @ 5kg /ha for soil treatment
Date of sowing:	-
Date of harvesting:	-

Source of technology:	IIVR- 2015
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato (Rabi 2024-25)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 05

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, 2024
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	-

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 module for the management of yellow mosaic in greengram crop
Year/Season:	Kharif, 2024
Farming situation:	Rainfed
Problem diagnosis:	Heavy infestation of yellow mosaic results in yield loss up to 60-70%
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-	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 17.8%@ 250 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	-

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 integrated disease management (wilt) in Lentil
Year/Season:	Rabi, 2024
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 Thirum @ 2g/kg seed
T3- Recommended Practice-	Soil treatment with T. viride @ 5kg/ha + Seed treatment with 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	-

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 IPM modules for the management of Pod borer in chickpea
Year/Season:	Rabi, 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield chickpea crop due to heavy infestation of pod borer
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 insect management
T2 –Recommended Practice-	Use of pheromones trap @ 15 trap/ ha + One row of Coriander between every 10 row of Chickpea
T3- Recommended Practice-	2 spray of Indoxacarb 15.8 EC 500 ml /ha I st at 35-40 DAS and II nd 50-55 DAS
Date of sowing:	-
Date of harvesting:	-

Source of technology:	JNKVV, Jabalpur, 2015
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 9

Title of on-farm trial:	Assessment of suitability of CR Dhan-310 to improve the nutritional status of the farm family
Year/Season:	Kharif, 2023-24
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-	Paddy variety MTU1010
T2 –Recommended Practice-	Paddy variety CR Dhan-310
Source of technology:	Cuttak(2018)
Characteristics of technology:	-
Name of Crop/Enterprises:	Paddy
Farming situation:	Irrigation
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT: 10

Title of on-farm trial:	Assessment of Drumstick leaves powder with amla powder for prevention of anemia
Year/Season:	Kharif, 2023-24
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:	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 Drumstick
T2 –Recommended Practice-	Drumstick leaves powder (10 g/person/day)
T3 -	Drumstick leaves powder10g with 5 g Amla powder (15 g/person/day)
Source of technology:	Guntur, Andhra Pradesh (2018)
Characteristics of technology:	-
Name of Crop/Enterprises:	Drumstick leaves powder with amla powder
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT: 11

Title of on-farm trial:	Assessment of Spirulina Nutberry supplementation on nutritional status of children
Year/Season:	Rabi, 2024
Problem diagnosis:	Prevalence of malnutrition among children
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-	Groundnut laddoo
T2 –Recommended Practice-	Spirulina Nutberry
Source of technology:	CSIR-CFTRI, Mysore
Characteristics of technology:	-
Name of Crop/Enterprises:	Spirulina
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT: 12

Title of on-farm trial:	Management of micronutrient deficiency through blending of bathua powder.
Year/Season:	Rabi, 2024
Problem diagnosis:	Micronutrient deficiency among farm families (Children below 5 years, 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-	Use of bathua available as weed in wheat crop
T2 –Recommended Practice-	Growing high yielding bathua var. Kashi Bathua 4 at kitchen garden and sun drying and grinding of bathua leaves, blend 10% in any recipe
Source of technology:	ICAR-IIVR, Varanasi and CSIR-CFTRI, Mysore
Characteristics of technology:	-
Name of Crop/Enterprises:	Bathua
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. 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	Seasonal Vegetables	Nutritional Security	Demonstration of Nutritional Kitchen garden at backyard.	Seed of Vegetables	Kharif and Rabi 2024-25	250Sqm	20	Yield, Per capita consumption gm/day, Nutrient Intake/ day
2	Mushroom	Income Generation	Demonstration of Oyster mushroom for income generation	Spawn	Kharif, 2024		10	Yield/bag, Net return, B:C ratio
3	Poultry	Income Generation	Demonstration of Poultry breed Kadaknath and	Chicks of Kadaknath and	Rabi 2024-25		10	Wt. kg/bird, Egg production,

			Narmada Nidhi	Narmada Nidhi				mortality %
4	Tomato	Varietal evaluation	Use of improved variety and nursery on raised bed	Seed	Kharif, 2024-25		05	Fruit wt. and yield
5	Pea	Integrated crop management	Use of improved variety of pea PSM-3 + Seed treatment with Rizobium @ 10g/kg seed	Seed and culture	Rabi-2024-25	1 ha.	05	No. of pod and yield
6	Sesame	Integrated disease management	Demonstration of phytophthora blight disease management in Sesame	Fungicide	Kharif 2024	4 ha	10	% Disease incidence, % Reduction in disease incidence, Yield (kg/ha), economics
7	Mustard	Integrated pest management	Management of aphids in Mustard	Insecticide	Rabi 2024-25	4 ha	10	No. of infected pod/plant, Yield (q/ha)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	September & February	65
2	Farmers Training	06	July & October	105
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.

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	-	-	-	-	-	-	-	--
2								

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05		
2	Farmers Training	7		
3	Media coverage	1		
4	Training for extension functionaries	1		

A) ON Campus

[illegible]

[illegible]

[illegible]

[illegible][illegible]

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										
July	Farmers & Farm Women	Integrated Crop Management in potato.	2							25
August	Farmers & Farm Women	Integrated crop management in Mango	2							25
September	Farmers & Farm Women	Hi-tech horticulture	2							25
October	Farmers & Farm Women	Protected cultivation	2							25
November	Farmers & Farm Women	Integrated Crop Management in onion.	2							25
December	Farmers & Farm Women	Integrated Crop Management in okra.	2							25
Livestock production										
Home Science										
July	Farmers & Farm Women	Training on Importance of nutritional garden to improve immunity	2							25
August	Farmers & Farm Women	Training of Healthy diet, healthy	2							25

[illegible]

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	Farmers & Farm Women	Integrated crop management in Papaya	2							25
February	Farmers & Farm Women	Integrated crop management in Guava	2							25
March	Farmers & Farm Women	Integrated crop management in Chilli	2							25
April	Farmers & Farm Women	Integrated crop management in Tomato	2							25
May	Farmers & Farm Women	Integrated crop management in Brinjal	2							25
June	Farmers & Farm Women	Integrated crop management in Cauliflower	2							25
Livestock production										
Home Science										
February	Farmers & Farm Women	Training of Rural youth on Dietary management during deficiency diseases	2							25
April	Farmers	Training on	2							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	
	& Farm Women	Nutrition based agriculture								
June	Farmers & Farm Women	Training on nutritional deficiency ka upchar- santulit aahar	2							25
August	Farmers & Farm Women	Income generation through Mushroom Production	2							25
October	Farmers & Farm Women	Livelihood and Nutritional security through biofortified varieties	2							25
December	Farmers & Farm Women	Nutritional security through Kitchen gardening	2							25
Plant Protection										
May	Farmers & Farm Women	Management of Storage grains pests	2							25
July	Farmers & Farm Women	Seed treatment with different agents	2							25
August	Farmers & Farm Women	IDM in rice	2							25
September	Farmers & Farm Women	Insect pest and disease management in nursery of vegetables	2							25
November	Farmers & Farm Women	Integrated pest management in gram	2							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	
October	Farmers & Farm Women	Integrated aphid management in mustard	2							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

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	Vocational	Propagation technology in Fruit plant	05							25
February	Vocational	Nursery raising technology involved in Vegetable crops	05							25
August	RY	Production technology involved in Soloneous crops	03							25
September	RY	Production technology involved in Cucurbits	03							25
Livestock production										
Home Science										
May	RY	Vocational	7	10	20	30	02	03	05	35

[illegible]

Training Programme for Extension Functionaries:

[illegible]

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
Popular articles	08									
Extension Literature	04									
Advisory Services	12									
Scientific visit to farmers field	31									
Farmers visit to KVK	550									
Diagnostic visits	24									
Exposure visits	03									
Ex-trainees Sammelan	0									
Soil health Camp	0									
Animal Health Camp	0									
Agri mobile clinic	0									
Soil test campaigns	0									
Farm Science Club Conveners meet	0									
Self Help Group Conveners meetings	0									
Mahila Mandals Conveners meetings	0									
Celebration of important days (specify)	05									
Others (pl. specify)	0									
Total	684									

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

SI. 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)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	0	0 0	0
2	Rhizobium			
3		0	0 0	0
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP	0	0 0	0
3				
BIO PESTICIDES				
1	Dasparni arkl	0	0 0	0
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	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	

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
		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			

Success stories/Case studies identified for development as a case: 03.....(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	Chhawari	Sidhi	32 km
2	Tenduha	Sidhi	16 km
3	Chaufal	Sidhi	17 km

1. No. of farm families selected per village : 05
2. No. of survey/PRA to be conducted: 03

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: __700 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Sesame	Kharif	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,	High yielding	3X3 m (54 m ²) and ½ Acre

		KasuriMethi, Lady's finger & Bottle Guard and Pumpkins		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost	Vermicompost	150	300
Azolla	Azolla	120	20 kg
Mushroom	Mushroom	8x10	10 kg
Terrace garden	Vegetables	15x10	50 kg
Kitchen Garden	Vegetables	250	100 kg
Zero Energy Cool Chamber	Vegetables	15	
Natural Farming	Beejamrit, Jeevamrit, Ghanjeewamrit	8x10	500 lit.

ANNUAL ACTION PLAN 2024

KVK Singrauli

Year of sanction : 2017

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)

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									
2	Subject Matter Specialist, I/c of KVK	Dr. Jai Singh	Scientist (Plant Protection)	Plant Protection	111400/-	29.03.2007	06.02.2018	9424641062	Sidhi_jai01@rediffmail.com	
3	Subject Matter Specialist									
4	Subject Matter Specialist									
5	Subject Matter Specialist									
6	Subject Matter Specialist									
7	Subject Matter Specialist									
8	Programme Assistant									
9	Computer Programmer/ Programme Assistant	Shri Satpal Singh	Programme Assistant	Computer Science	4270 0.00	27.10.2020	27.10.2020	9424925749	satpalsingh.kvk@gmail.com	
10	Farm Manager									
11	Assistant									
12	Jr. Stenographer / Comp. Operator									
13	Driver									
14	Driver									
15	Supporting staff									
16	Supporting staff									

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				
2	Farmers Hostel	ICAR	25.05.2022	300				
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 • 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.	• 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 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 • 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	• 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 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	• 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 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

•	Rigid and poor mind set of tribal's towards behavioural change		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 , 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	- 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 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 - Stray cattle grazing system - Poor maintenance of	- 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 the total geographical area and the tribal's are heavily depended on forest produce for their livelihood so, there 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	- 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 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

species, thus there is good scope for crop diversification • The district has good potential for establishing allied agricultural occupations. •	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	cattle provide good scope for organic agriculture as well as increasing milk production through breed up gradation	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

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 (2023)

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 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
2	Chitrangi	Chitrangi	Shivpurwa	Rice, Wheat, Pigeonpea, Sesame,Jowar,C hickpea,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	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

					7. Severe weed infestation 8. Use of grain as seed, 9. Little or imbalance use of fertilizers, 10. Moisture stress during crop growth period	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 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	10. Soil and Water conservation 11. Seed replacement 12. Promotion of Integrated 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
34	850	60	2633

Seed Production (Qtl.)	Planting material (Nos.)
25.0	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	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

			Banded Leaf and Sheath blight of Maize in 12000 ha area.						
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 Fusarium Head Blight management of Wheat	Wheat	Severe yield loss(up to 40%) in Wheat due to severe incidence (25-60 %) of FHB in 2250 ha area under irrigated condition	Assessment of Integrated Management of Fusarium Head Blight in Wheat under Rice-Wheat Cropping system		Integrated management of Fusarium Head blight complex in Wheat			Fungicides
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	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

			season						
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 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
9				Demonstration of Improved production technology of JK-37 variety of Barnyard Millet					

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 selected for 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 selectedfor assessment	<table border="1"> <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% + 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</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% + 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</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% + 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	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% + 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
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% + 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				
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% + 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				
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 Chloropyriphos -20EC @ 1.25 lit./ha at severe infestation				
Details of technologies selectedfor assessment	<table border="1"> <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	Chloropyriphos -20EC – @ 2.5lit./ha Ha NPV @ 250LE / ha NSKE -5% - 2000 ml/ ha Spinosed-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 selectedfor 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 Natio - 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 Natio @ 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)	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.).

	Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

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:	2024/ 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</i>

	<i>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,2024
Date of harvesting:	15 February,2025
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:	2024/ 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,2024
Date of harvesting:	25 September,2024
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:	2024-25/ 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,2024
Date of harvesting:	15 -20 January, 2025
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:	2024-25/ 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, 2024
Date of harvesting:	Last week of March,2025
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:	2024
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, 2024
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, 2024
Date of harvesting:	July, 2024
Source of technology:	CSWRI, Avika Nagar- Rajsthan , 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:	2024
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:	2024
Date of harvesting:	2024
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:	2024
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:	2024
Date of harvesting:	2024
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

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, 2024	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	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, 2024	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
3	Chickpea	IPM	Bird perches @ 50/ ha + Two spray of <i>Agneyastra</i> @ 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	Tobacco leaf @ 5kg, Garlic @ 2.5 kg and Green Chilli @ 2.5 kg	Rabi, 2024	2.0	10	Plant Height(cm), 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

			in earthenpot for 24 hours)					

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	Kadakhnath	10	200	Chicks of Kadakhnath	Egg productivity / bird/ 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	Egg productivity / bird/ year, Mortality (%) up to 6 month, Body weight (g)/Bird upto six month	Egg productivity / 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 (2024-25)

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, 2024	20.0	50	Pod / plant, yield, B:C ratio, Net income(Rs./ha), B:C ratio, Farmers reaction and feed back
2	Lentil	ICM	Improved Production Technology of L4727 variety of Lentil under Sesame -Lentil Cropping system	Seed (@ 16 kg /Demo , Carboxin(Vitavax) @ 100 g/ Demo, Rhizobium & PSB@ 200-200 g / Demo, <i>T. v.</i> @ 2kg/ Demo, <i>Beauveria bassiana</i> @ 200 ml / demo.	Rabi, 2024-25	10	25	Pods / plant, yield, B:C ratio, Net income(Rs./ha), B:C ratio, Farmers reaction and feed back
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, 2024-25	20	50	Siliqua / plant, yield, B:C ratio, Net income(Rs./ha), B:C ratio, Farmers reaction and feed back

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	February, 2025	150

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production	02	10	15	0		15	35	0		35	50
Bee-keeping											
Seed production											
Planting material production											
Vermi-culture											
Value addition											
Sheep and goat rearing											
Para extension workers	01	05	05	0		05	20	0		20	25
TOTAL	03	15	20	0		20	55	0		55	75
(C) Extension Personnel											
Productivity enhancement in field crops											
Integrated Pest Management	02	04	30	02		32	05	03		08	40
Integrated Nutrient management											
Protected cultivation technology											
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production	02	04	30	0	0	30	10	0	10		40
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL	04	08	60	02		62	15	03		18	80

B) OFF Campus

[illegible]

(A) Farmers & Farm Women

I Crop Production

Management									
Resource Conservation									

[illegible]

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 24	FW & F	Innovative disease management Techniques in Summer Vegetable crops	2	20	0	20	5	5	10	25
11-12 March, 2024	FW & F	Innovative Technology for Management of store grain pest	2	15	5	20	5	5	10	30
16-17 May, 2024	FW & F	Modern Technology of Integrated management of pod borer complex in Pigeonpea	2	20	0	20	10	0	10	25
5-6 June, 2024	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, 2024	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, 2024	FW & F	Innovative Technology for Integrated soil borne Disease management of Tomato	2	25	0	25	5	0	5	30
9-10October, 2024	FW & F	Preparation, Application & Importance of Agniyastra,	2	25	0	25	5	0	5	30

		Neemastra, Bramhasatra & Dasparni ark for management of Pest								
15-16, Nov. ,2024	FW & F	Integrated management of Fusarium Head blight complex in Wheat	2	25	0	25	5	0	5	30
Horticulture										
Livestock production										
16-17 February,20 24	FW & F	Effect of azolla feeding for milk production in animals	2	20	0	20	5	5	10	25
14-15 March, 2024	FW & F	Management of mineral deficiency Through mineralized salt brick in buffaloes	2	15	5	20	5	5	10	30
15-16 June, 2024	FW & F	Preparation and importance of balanced feed from Locally available animal feeding materials	2	20	0	20	10	0	10	25
11-12 August, 2024	FW & F	Management of ecto parasite through herbal medication in cattle	2	25	0	25	5	0	5	30
11-12 October, 2024	FW & F	Identification of calcium deficiency and their management	2	25	0	25	5	0	5	30

		in cattle								
Home Science										
20-21 November,2024	FW	Processing and value addition of tomato	2	0	20	20	0	10	10	30
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
14-15 Sept., 2024	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, 2024	FW&F	Improved Production technology of Mustard	2	45	0	45	5	0	5	50
16 October, 2024	FW&F	Improved Production technology of Field Pea	2	45	0	45	5	0	5	50
06-07July, 2024	FW&F	Improved Production technology of Pigeonpea	2	35	0	35	15	0	15	50
Horticulture										
Livestock production										
04-05 , January, 2024	FW&F	Role and Effect of Herbal medicated feed prepared through spices on	2	15	0	15	10	5	15	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	
		milk yield, and Placenta retention in cattle								
18-19 April, 2024	FW&F	Care and management of Poultry in summer season	2	25	0	25	5	0	5	30
18-19 May, 2024	FW&F	Role and Effect of Herbal medicated feed prepared through spices on milk yield, and Placenta retention in buffalo	2	20	0	20	10	0	10	25
25-26 May, 2024	FW&F	Year around green fodder availability and Their importance	2	20	0	20	10	0	10	25
04-05 July, 2024	FW&F	Care and Management of Goat in rainy season	2	25	0	25	5	0	5	30
20-21 July, 2024	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, 2024	FW&F	Care and management of Newly born calf	2	25	0	25	5	0	5	30
13-14 September, 2024	FW&F	Care and management of Livestock and poultry to cold	2	25	0	25	5	0	5	30
13-14,	FW&F	Care and	2	25	0	25	5	0	5	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	
Nov., 2024		Management of Livestock from cold wave								
12-13 Dec., 2024	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, 2024	FW&F	Novel Management practices of Aphid Management in Mustard	2		15	0	15	10	5	15
12-13 April, 2024	FW&F	Modern Technology of Integrated management of Rhizome rot in Ginger	2		25	0	25	5	0	5
10-11 May, 2024	FW&F	Modern Technology of Integrated management of Disease in Pigeonpea	2	20	0	20	10	0	10	25
8-9 June , 2024	FW&F	Biological management of Leaf & Sheath blight disease in Maize	2	20	0	20	10	0	10	25
22-23 June, 2024	FW&F	Novel technology for management of False smut , BLB & LSB in Rice	2	25	0	25	5	0	5	30
10-11 July, 2024	FW&F	Innovative technology for Biological Management of Soil borne diseases in	2	25	0	25	5	0	5	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	
		Kharif crops								
27-28 July, 2024	FW&F	Importance , Preparation and application of Jeevamrit and Ghan jeevamrit	2	25	0	25	5	0	5	30
25-26 August, 2024	FW&F	Innovative Technology for Integrated Fruit borer management in Tomato	2	25	0	25	5	0	5	30
5-6 September, 2024	FW&F	Modern Integrated Management technology Disease Management in Rabi Pulse crop	2	25	0	25	5	0	5	30
03-04, Nov., 2024	FW&F	Economic and Eco friendly management techniques for pod borer in Chickpea	2	25	0	25	5	0	5	30
2-3 Dec., 2024	FW&F	Integrated Disease and insect management of Onion	2	25	0	25	5	0	5	30

Agriculture Extension (Capacity Building and Group Dynamics)

[illegible]

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										

[illegible]

Training Programme for Extension Functionaries:

[illegible]

[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													
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
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	20.0
	0	0	0
VEGETABLES	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
Spices	Turmeric	Sonali	25.0
Spices	Garlic	G-323	25.0

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	Parasdehi	Waidhan	30
5	Basauda	Waidhan	25
6	Kulakwar	Chitrangi	140

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	`Agrahawa	Chitrangi	223.9	918	206
03	Urti	Waidhan	605.5	1079	316
04	Bagaiha	Chitrangi	1835.4	4949	1016
05	Ghoghra	Chitrangi	1161.5	3698	826
06	Shivpurwa	Chitrangi	334.6	1721	303
07	Basauda	Waidhan	876.6	2764	549
08	Kulakwar	Chitrangi	517.8	826	195
09	Suhira	Waidhan	794.5	4201	879

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, 2024	Rajeev lochan, Phule-12, TJT-501 and BDN 716		
Rice	Kharif, 2024	Dev Bhog, Vishnu Bhog, Kala namak, JR-503, JRB-1		
Kodo	Kharif, 2024	JK-137, RK390-25, JK-76, J.K.41		
Little Millet	Kharif, 2024	JK-4,OLM 203		
Finger Millet	Kharif, 2024	GPU 67, VL 376		
Sesame	Kharif, 2024	TKG-308, JT-11, JT-12, JTS-8		
Wheat	Rabi, 2024-25	G.W- 366, HI-1540, HI-8663, HD-2932,		Plot size 5X3 meter on Raised Bed

		HI-8747		
Barley	Rabi, 2024	DWRB-137,Karnal-Black,Local		
Gram	Rabi, 2024	JG-18,JG-63, JG-14, JG-36, ,		
Mustard	Rabi, 2024	JM-3, RVM-1, RVM-2, RH-761		

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	

KVK Tikamgarh

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec. 2023)

[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	36282	Running
Bolero (Jeep)	2012	650000	221961	Condemn
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	2014	4250	Serviceable
Inverter Battery	2024	19300	Serviceable

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

Sl. No.	Tentative Date
1	25/06/2024
2	22/10/2024

2. DETAILS OF DISTRICT

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

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 - Light)	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 - Clay)	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 - Medium Soil)	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 - Light)

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 - Clay)

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 Soil - Medium)

Strength	Weakness	Opportunities	Threats
1. Suitable for root & tuber crops cultivation as groundnut, zinger,	1. Mostly sandy and sandy clay loam is not suitable	1. Opportunity for increasing of tuber and root crops cultivation.	1. Continuous growing of roots and tuber crop

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.	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.	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.	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	372.20
Forest	58.31
Waste Land	8.45
Other than cultivated area	-
Cultivable waste and alkaline land	-
Pastures	29.3
Bushes	-
Current Fallow	19.39
Other Fallow	-
Agricultural Land	247.31
Area Sown	427.15
Kharif	217.82
Rabi	229.20
Zaid	-
Cropping Intensity	181

Irrigated Area with Different Sources included new district Niwari:

S. No.	Description	Area (ha)
1	Canal	13840
2	Well	32720
3	Tube well	80260
4	Ponds	9540
5	Others	8890

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
AES-1	Red (Light Soil)	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	103.15 (44%)
AES-2	Black (Clay Soil)	The soil are black in colour, posses high moisture holding capacity and have integrated of Mont morrilonite, illite and chloride minerals which covered under the order of vertisols.	46.89 (20%)
AES-3	Sandy Loam (Medium Soil)	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	84.40 (36%)

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	188310	1561600	8.3
2	Groundnut	7150	83200	11.62
3	Sesame	4920	18200	3.67
4	Soybean	4120	45700	11.1
5	Greengram	2640	14900	5.65

6	Sorghum	460	5658	12.3
7	Wheat	195160	5854900	30
8	Mustard	11000	99000	9
9	Chickpea	8470	102800	12.15
10	Barley	2630	59200	22.5
11	Fieldpea	1930	24100	12.5
12	Lentil	1480	12136	8.2
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	Guava	414	120308.4	290.6
19	Mango	227	27444.3	120.9
20	Aonla	139	17416.7	125.3

Weather data (Jan. 2023 - Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	30.4	27.0	0.6
Feb. 2023	0.0	34.0	6.6
Mar. 2023	25.7	35.3	12.2
Apr. 2023	12.4	41.3	16.2
May. 2023	5.0	44.0	19.0
Jun. 2023	122.8	42.8	22.5
July. 2023	425.4	35.8	22.5
Aug. 2023	226.1	34.0	21.5
Sept. 2023	202.5	36.2	21.8
Oct. 2023	0.0	36.5	13.8
Nov. 2023	1.4	34.2	8.8
Dec. 2023	6.6	26.6	5.8

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
Category	Area	Production	Productivity
Fish	-	-	-

Details of Operational area / Villages (2024)

Sl. No	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Tikamgarh	Tikamgarh	Badagaon	Major Crops - Blackgram, Groundnut, Sesame,	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	1. Continuous growing of roots and tuber crop leading to weeds, diseases, insects and
2	Tikamgarh	Tikamgarh	Nanni Tehri			
3	Tikamgarh	Tikamgarh	Para Khas			
4	Tikamgarh	Tikamgarh	Soriyana			

5	Tikamgarh	Tikamgarh	Surajpura	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)	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) needs 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.	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.
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
16	80	20	100

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
102	2435	511	66500

Seed Production (Qtl.)	Planting material (Nos.)
600	14000

B. Abstract of interventions to be undertaken

S. No	Thru st area	Crop/ Enterp 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	IDM	Blackgr am	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	Ground nut	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	Soybea n	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 FLD on Use of Nano Urea	Production Technology	Production Technology	Field Day and Diagnostic Visit	Seeds and other agricultural inputs
8	CPM	Mustar d	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,	-	FLD on IPM in	IPM	IPM	Field Day	Seeds and

Detailed Information about OFT:

OFT - 1 (Dr. U. S. Dhakad – 1st Year)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Sesame production under Natural Farming
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	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 30 kg/ha)
T2 – Recommended Practice	Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 2 times at 30 days Intervals (drenching in crop by hazara), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	10-15 July 2024
Date of harvesting:	01-10 October 2024
Source of technology:	UAS, Dharwad, 2020
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Sesame
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Branches/plant	No.
Capsules/plant	No.
Yield	q/ha

OFT - 2 (Dr. U. S. Dhakad – 2nd Year)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Blackgram production under Natural Farming
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	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	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), Foliar spray of Neemastra @ 5 lit/100 lit water, Agnayastra or Dasparni @100 ml/lit as per requirement of plant protection
Date of sowing:	10-15 July 2024
Date of harvesting:	01-10 October 2024
Source of technology:	UAS, Dharwad, 2020
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
Branches/plant	No.
Pods/plant	No.
Yield	q/ha

OFT - 3 (Dr. U. S. Dhakad – 2nd Year)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Mustard production under Natural Farming
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	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	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), 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 2024
Date of harvesting:	10-15 March 2025
Source of technology:	UAS, Dharwad, 2020
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
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 Lentil production under Natural Farming
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	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 (50 kg of DAP)
T2 – Recommended Practice	Seed treatment with Beejaamrit @ 20 ml/kg seed, application of Ghanjivaamrit @ 250 kg/ha pre sowing, Jivaamrit @ 500 lit/ha, 2 times at 30 days interval (drenching in crop by hazara), 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 2024
Date of harvesting:	10-15 March 2025
Source of technology:	UAS, Dharwad, 2020
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
Name of Crop:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Branches/plant	No.
Pod/plant	No.
Yield	q/ha

OFT - 5 (Dr. S. K. Jatav – 1st Year)

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Groundnut varieties K-1812 & GJG 32 under Groundnut-Wheat cropping system
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of groundnut due to use of old variety Jhumkul
Thematic area:	Varietal Evaluation
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	K-1812 (Kadiri Lepakshi) + Line sowing
T3 - Recommended Practice	GJG 32 + Line sowing
Date of sowing:	Tentative 25 June - 05 July 2024
Date of harvesting:	Tentative 05-10 October 2024
Source of technology:	ANGRAU, Hyderabad and JAU, Gujarat, 2020
Characteristics of technology:	High yielding varieties, yield 25-30 q/ha, duration 110-115 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 Blackgram varieties IPU 13-1 & Indira Urd-1 under Blackgram-Wheat cropping system
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of blackgram due to use of old variety T-9
Thematic area:	Varietal Evaluation
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 T-9 + Broadcasting sowing method
T2 – Recommended Practice	IPU 13-1 + Line sowing
T3 - Recommended Practice	Indira Urd-1 + Line sowing
Date of sowing:	Tentative 05-15 July 2024
Date of harvesting:	Tentative 1-10 September 2024
Source of technology:	IIPR, Kanpur, 2020
Characteristics of technology:	High yielding varieties, late sowing, duration 80-85 days
Name of Crop:	Blackgram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Pods/Plant	No.
Plant height	cm
Pod length	cm
Test weight of 100 seeds	gm
Yield	q/ha

OFT - 7 (Dr. S. K. Jatav – 1st Year)

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of Fieldpea IPFD 12-2 & IPFD 10-12 under Soybean-Fieldpea cropping system
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of old variety KPMR 400
Thematic area:	Varietal Evaluation
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
T3 - Recommended Practice	IPFD 10-12 + Line sowing
Date of sowing:	Tentative 1-15 November 2024
Date of harvesting:	Tentative 1-15 March 2025
Source of technology:	IIPR, Kanpur, 2017
Characteristics of technology:	High yielding varieties, yield 22-25 q/ha, duration 100-105 days, Resistant to Powdery Mildew
Name of Crop:	Fieldpea
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 – 1st Year)

Name of Discipline	Plant Breeding
Title of on-farm trial:	Assessment of bio fortified Wheat varieties HI 1634 & JW 3465 under Groundnut-Wheat cropping system
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety, imbalance use of fertilizers and broadcasting sowing method
Thematic area:	Varietal Evaluation
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	T1 - Old variety Lok 1 + broadcasting sowing method
T2 – Recommended Practice	T2 - HI 1633 + Line sowing
T3 - Recommended Practice	T3 - JW 3465 + Line sowing
Date of sowing:	Tentative 1-15 November 2024
Date of harvesting:	Tentative 1-15 April 2025
Source of technology:	JNKVV Jabalpur and IARI, Indore, 2021
Characteristics of technology:	High yielding varieties, 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 – 2nd Year)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated Management of white grub in Groundnut
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield (28-30%) due to heavy infestation (29-31%) of white grub in groundnut
Thematic area:	Integrated Pest Management
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	Indiscriminate use of insecticides
T2 – Recommended Practice	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/m ²
T3 - Recommended Practice	Deep summer ploughing + furrow application of <i>B. bassiana</i> @ 5 lit/ha with FYM @ 1 q. + Application of EPN 5 kg/ha with 3 q. FYM + Light trap @ 1/ha + Pheromone traps (Anisole) @ 3/ha.
Date of sowing:	20-30 June 2024
Date of harvesting:	5-15 October 2024
Source of technology:	NIPHM, Hyderabad, 2022
Characteristics of technology:	NRM technology + Naturally bio agents <i>B. bassiana</i> 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 – 2nd Year)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated Management of anthracnose disease in Blackgram
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield (25-30%) due to heavy incidence (27-36%) of anthracnose disease in Blackgram
Thematic area:	Integrated Disease Management
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	Indiscriminate use of fungicides
T2 – Recommended Practice	Seed treatment with <i>Pseudomonas fluorescens</i> @ 10 ml/kg of seed + Spraying of <i>P.</i>

	<i>fluorescens</i> 20 ml/lit. of water at the 30, 40 and 60 DAS as per need based
T3 - Recommended Practice	Seed treatment with (Mancozeb 63% WP + Carbendazim 12% WP) @ 3 g/kg of seed + Spraying of (Tebuconazole 10% + Sulphur 65% WG) @ 1.25 kg/h after appearance of incidence on foliage/fruits/panicles at 7 to 10 days interval as per need based
Date of sowing:	01-10 July 2024
Date of harvesting:	25-30 September 2024
Source of technology:	JNKVV, Jabalpur, 2021
Characteristics of technology:	NRM and Naturally bio agents <i>Pseudomonas fluorescens</i> 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 – 2nd 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 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield (24-28%) due to heavy incidence (28-36%) of dry root rot disease in Chickpea
Thematic area:	Integrated Disease Management
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	Indiscriminate use of fungicides
T2 – Recommended Practice	Deep summer ploughing + Soil application of <i>Trichoderma viride</i> @ 1 lit. with 1 q. FYM + Seed treatment with <i>T. viride</i> @ 10 ml/kg of seed
T3 - Recommended Practice	Deep summer ploughing + Seed treatment with (Mancozeb 63% WP + Carbendazim 12% WP) @ 3 g/kg of seed + Spot drenching of (Tebuconazole 50% + Trifloxystrobin 25% WG)@ 0.5 g/ lit of water at incidence spot as need based
Date of sowing:	25-30 October 2024
Date of harvesting:	1-5 March 2025
Source of technology:	JNKVV, Jabalpur, 2022
Characteristics of technology:	NRM and Naturally bio agents <i>Trichoderma viride</i> 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 – 2nd Year)

Name of Discipline	Plant Protection

Title of on-farm trial:	Assessment of Integrated Management of late blight disease in Potato
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield (30-35%) due to heavy incidence (36-45%) of late blight disease in Potato
Thematic area:	Integrated Disease Management
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	Indiscriminate use of fungicides
T2 – Recommended Practice	Tuber treatment with (Mancozeb 64% WP + Metalaxyl 4% WP) @ 3 gm/lit of water before sowing
T3 - Recommended Practice	T2 + Spraying of (Iprovalicarb 5.5 % WP + Propineb 61.25 % WP) @ 1.5 ml/lit of water on appearance of the disease at 7 to 10 days interval as per need based
Date of sowing:	1-15 November 2024
Date of harvesting:	20-28 February 2025
Source of technology:	JNKVV, Jabalpur, 2020
Characteristics of technology:	New less environmentally affected new pesticides molecules
Name of Crop:	Potato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

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 Mohini (hyb) under Cucurbits - Ginger cropping system
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Ginger due to use of old varieties + Imbalance dose of fertilizers and heavy infestation of disease
Thematic area:	Varietal Evaluation
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	T1 - Old varieties Raigarhi & Basi + Imbalance dose of fertilizers (DAP 50 kg + Urea 50 kg/ha)
T2 – Recommended Practice	T2 - Mohini (hyb) + Rhizome treatment with Mancozeb + Metalaxyl @ 3 gm/lit + RDF (NPK - 100:50:50)
T3 - Recommended Practice	T3 – Mohini (hyb) + Rhizome treatment Mancozeb + Metalaxyl @ 3 gm/lit + ZSB 1.5 lit + KSB @ 2 lit/ha as basal dose and Pseudomonas fluorescens @ 5 lit/ha Foliar spray
Date of sowing:	25-30 June 2024
Date of harvesting:	10-15 February 2025
Source of technology:	UBKV, West Bengal, 2018
Characteristics of technology:	High yielding and bold rhizomes
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 Onion variety Bheema Super
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Onion due to use of old varieties + Imbalance dose of fertilizers + No use of weedicides
Thematic area:	Varietal Evaluation
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 Agri Found Dark Red (AFDR) + Imbalance dose of fertilizers (DAP 50 kg + Urea 50 kg/ha)
T2 – Recommended Practice	Bheema Super + RDF (NPK – 150:60:50)
T3 - Recommended Practice	Bheema Super + Oxyfluorfen (23.5% EC) 300 ml/ha for weed management + <i>Pseudomonas fluorescens</i> @ 5 lit/ha Foliar spray
Date of sowing:	15-20 July 2024
Date of harvesting:	25-30 October 2024
Source of technology:	DOGR, Nasik, Pune, 2016
Characteristics of technology:	Medium duration, high yielding and suitable for Kharif season in MP
Name of Crop:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Results / Findings

Performance indicators/ parameters	Unit/ details
Bulb length & Diameter	cm.
Bulb weight	gm
Weeds/sq. m.	No.
Yield	q/ha

OFT - 15 (Dr. S. K. Singh – 1st Year)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Potato under Natural Farming
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Increase of production cost, degraded health of soil and environment
Thematic area:	Natural Farming
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	Imbalance dose of fertilizers (DAP 50 kg + Urea 100 kg/ha) + Indiscriminate use of Pesticide
T2 – Recommended Practice	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:	25-30 September 2024
Date of harvesting:	15-20 December 2024
Source of technology:	UAS, Dharwad, 2020
Characteristics of technology:	Natural farming environmentally hazard reducing practices and reducing cost of cultivation
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 – 2nd Year)

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Capsicum (Shimla Mirch) high yielding varieties Asha & Jaya (hyb.)
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety Bharat, Imbalance use of fertilizers and Flat bed sowing method
Thematic area:	Varietal Evaluation
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)
T3 - Recommended Practice	Jaya (hyb.) + Seed treatment + Raised bed sowing method + Mulching + Drip irrigation + RDF (NPK – 100:60:50)
Date of sowing:	15-20 October 2024
Date of harvesting:	20-25 February 2025
Source of technology:	Nongwoo seed, Korea, 2018
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.
Fruits weight/plant	kg
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	ICM	Demonstration of Soybean variety JS 2098 under soybean-wheat cropping sequence	Seed, Trichoderma and bio fertilizers	Kharif, 2024	2.0	05	Branches/plant (No.), Pods/plant (No.) and Yield (q/ha)
2	Blackgram	Natural Farming	Demonstration of Blackgram under Natural Farming	Seed, Pulse flour, Jaggery and Goumutra	Kharif, 2024	2.0	05	Branches/plant (No.), Pods/plant (No.) and Yield (q/ha)
3	Mustard	ICM	Demonstration of Mustard variety RH 749 under blackgram-mustard cropping sequence	Seed, Trichoderma & bio fertilizers	Rabi, 2024	2.0	05	Branches/plant (No.), Siliques/plant (No.) and Yield (q/ha)
4	Fieldpea	Natural Farming	Demonstration of Fieldpea under Natural Farming	Seed, Pulse flour, Jaggery and Cow urine	Rabi, 2024	2.0	05	Branches/plant (No.), Siliques/plant (No.) and Yield (q/ha)
5	Soybean	Varietal Evaluation	Demonstration of improved variety JS 20-98 of Soybean under Soybean-Wheat cropping system	Seed	Kharif, 2024	2.0	05	Plant height (cm), Pods/plants (No.), Test weight (gm) and Yield (q/ha)
6	Sesame	Varietal Evaluation	Demonstration of Sesame variety GJT 5 / GJT 6 under Sesame - Lentil cropping system	Seed and seed treatment	Kharif, 2024	2.0	05	Capsule Length (cm), Branches/ plant (No.), 1000 seed weight (gm), Yield (q/ha)
7	Chickpea	Varietal Evaluation	Demonstration of JG 24 variety of Chickpea under Sesame – Chickpea cropping system	Seed and seed treatment	Rabi, 2024	2.0	05	Branch/plant (No.), Plant Height (cm) , Pods/plant (No.), Test weight of 100 seeds (gm) and Yield (q/ha)
8	Lentil	Varietal Evaluation	Demonstration of IPL 316 variety of Lentil under Blackgram-Lentil cropping system	Seed and seed treatment	Rabi, 2024	2.0	05	Pods/plant (No.), Test weight of 100 seeds (gm) and Yield (q/ha)
9	Groundnut	IDM	Demonstration on Integrated management of Leaf Spots disease in Groundnut	Fungicides	Kharif, 2024	2.0	05	Disease incidence (%), Disease Intensity (%) and Yield (q/ha)
10	Colocasia	IDM	Demonstration on Integrated management of Phytophthora blight disease in Colocasia	Fungicides	Kharif, 2024	1.0	05	Disease incidence (%), Rhizomes/ plant (No.) and Yield (q/ha)
11	Mustard	IPM	Demonstration on Integrated management of aphid insect in Mustard	Insecticides	Rabi, 2024	2.0	05	Insect infestation (%) and Yield (q/ha)
12	Onion	IDM	Demonstration on Integrated Management of Purple Blotch disease in Onion	Fungicides	Rabi, 2024	1.0	05	Disease Incidence (%), Weight of Bulb (gm) and Yield (q/ha)

13	Sponge gourd	ICM	Demonstration on Sponge Gourd high yielding variety Kashi Rakshita with Bower technology	Seed, Bamboo and Wires	Kharif, 2024	1.0	05	Fruit/plant (No.), Fruit weight/plant (kg) and Yield (q/ha)
14	Cowpea	ICM	Demonstration on Cowpea early variety Kashi Nidhi	Seed and Biofertilizers	Kharif, 2024	1.0	05	Branches/plant (No.), Pods/plant (No.) Yield/plant (kg) and Yield (q/ha)
15	Brinjal	ICM	Demonstration on Brinjal high yielding variety Kashi Sandesh with Raised bed and Mulching	Seed and Biofertilizers	Rabi, 2024	1.0	05	Branches/plant (No.), Fruits/ plant (No.), Fruit weight/plant (kg), Yield (q/ha)
16	Garlic	IWM	Demonstration on IWM in Garlic	Weedicide	Rabi, 2024	1.0	05	Weeds/sq. m. (No.), Cloves weight (gm) and Yield (q/ha)
17	Blackgram	Organic Farming	Demonstration on Bio fertilizer use in Blackgram	Bio fertilizers	Kharif, 2024	2.0	05	Pods/plant (No.), Yield/plant (gm) and Yield (q/ha)
18	Groundnut	Organic Farming	Demonstration of Bio Fertilizer use in Groundnut	Bio fertilizers	Kharif, 2024	2.0	05	Pods/plant (No.), Branches/plant (No.) and Yield (q/ha)
19	Mustard	Organic Farming	Demonstration of Bio Fertilizer use in Mustard	Bio fertilizers	Rabi, 2024	2.0	05	Branches/plant (No.), Siliques/plant (No.) and Yield (q/ha)
20	Lentil	Organic Farming	Demonstration of Bio Fertilizer use in Lentil	Bio fertilizers	Rabi, 2024	2.0	05	Root nodules/plant (No.), Test weight of 100 seeds (gm) and Yield (q/ha)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	October & February	300
2	Farmers Training	20	Round the year	500
3	Media coverage	25	Round the year	Mass
4	Training for extension functionaries	5	Round the year	100
5	Sangosthi	15	Round the year	375

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 (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer /demo.	Parameters identified
1	Blackgr	VR	Variety + Seed treatment + Line sowing +	Seed +	Kharif	50	125	Pods/plant (No.),

	am		RDF + Weed, Insect, Pest and Disease management through chemical	Biofertilizers + Insecticide	2024			Plant Height (cm.), Yield (q/ha)
2	Ground nut	VR	Under 10 years variety + Line sowing + Seed treatment with Trichoderma and PSB + Soil treatment with PSB + Spray of Mancozeb + Tebuconazole + Pseudomonas	Seed + Biofertilizers + Insecticide	Kharif 2024	40	100	Branches/plant (No.), Pods/plant (No.), Yield (q/ha)
3	Mustard	VR	Under 10 years variety + Timely Line sowing + Trichoderma + PSB + Azotobacter + Pseudomonas + Imidachloroprid + Carbendazim + Mancozeb	Seed + Biofertilizers + Insecticide	Rabi 2024	60	150	Branches/plant (No.), Siliques/plant (No.), Yield (q/ha)
4	Chickpea	VR	Under 10 year improved variety + Timely Line sowing + Trichoderma + Rhizobium + PSB + KSB + ZSB + Bird Purcher + Insecticide	Seed + Biofertilizers + Insecticide	Rabi 2024	10	25	Branches/plant (No.), Pods/plant (No.), Yield (q/ha)
5	Lentil	VR	Under 10 year improved variety + Seed treatment + Line sowing + RDF + IDM + IPM + Biofertilizer	Seed + Biofertilizers + Insecticide	Rabi 2024	10	25	Branches/plant (No.), Pods/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	625
3	Media coverage	12	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

[illegible]

Thematic Area	No. of Course s	Duratio n (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
f) Spices	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
GRAND TOTAL (HORTICULTURE)	9	9	-	-	-	-	-	-	225
III Soil Health and Fertility Management									
Soil fertility management	1	1	-	-	-	-	-	-	25
Integrated Nutrient Management	2	2	-	-	-	-	-	-	50
Production and use of organic inputs	1	1	-	-	-	-	-	-	25
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
TOTAL	4	4	-	-	-	-	-	-	100
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	5	5	-	-	-	-	-	-	125
Integrated Disease Management	4	4	-	-	-	-	-	-	100
Bio-control of pests and diseases	1	1	-	-	-	-	-	-	25
TOTAL	10	10	-	-	-	-	-	-	250
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building & Group Dynamics	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
GRAND TOTAL	41	41	-	-	-	-	-	-	1025
(B) RURAL YOUTH									
Seed production	3	9	-	-	-	-	-	-	60
Production of organic inputs	2	6	-	-	-	-	-	-	40
Planting material production	1	3	-	-	-	-	-	-	20
Natural Farming	1	3	-	-	-	-	-	-	20
Entrepreneurship	2	6	-	-	-	-	-	-	40
TOTAL	9	27	-	-	-	-	-	-	180
(C) EXTENSION PERSONNEL									
Productivity enhancement in field crops	3	3	-	-	-	-	-	-	60
Integrated Nutrient management	2	2	-	-	-	-	-	-	40
Protected cultivation technology	1	1	-	-	-	-	-	-	20
Production technology	2	2	-	-	-	-	-	-	40
Natural Faming	2	2	-	-	-	-	-	-	40
Integrated Disease Management	3	3	-	-	-	-	-	-	60
Integrated Pest Management	1	1	-	-	-	-	-	-	20
TOTAL	14	14	-	-	-	-	-	-	280

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									
I Crop Production									
Weed Management	3	3	-	-	-	-	-	-	75
Resource Conservation Technologies	1	1	-	-	-	-	-	-	25
Cropping System	1	1	-	-	-	-	-	-	25
Crop Diversification	2	2	-	-	-	-	-	-	50
Integrated Farming	1	1	-	-	-	-	-	-	25
Water management	1	1	-	-	-	-	-	-	25
Seed Production	2	2	-	-	-	-	-	-	50
Integrated Crop Management	5	5	-	-	-	-	-	-	125
Production of organic inputs	1	1	-	-	-	-	-	-	25
Natural farming	1	1	-	-	-	-	-	-	25

TOTAL	18	18	-	-	-	-	-	-	450
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1	-	-	-	-	-	-	25
Protective cultivation	-	-	-	-	-	-	-	-	-
Nutritional Garden	1	1	-	-	-	-	-	-	25
Production & Management technology	3	3	-	-	-	-	-	-	75
TOTAL	5	5	-	-	-	-	-	-	125
b) Fruits									
Management of young plants/ orchards	1	1	-	-	-	-	-	-	25
Propagation techniques of fruit plants	-	-	-	-	-	-	-	-	-
TOTAL	1	1	-	-	-	-	-	-	25
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
GRAND TOTAL (HORTICULTURE)	6	6	-	-	-	-	-	-	150
III Soil Health and Fertility Management									
Soil fertility management	1	1	-	-	-	-	-	-	25
Integrated Nutrient Management	1	1	-	-	-	-	-	-	25
Production and use of organic inputs	2	2	-	-	-	-	-	-	50
Micro nutrient deficiency in crops	1	1	-	-	-	-	-	-	25
TOTAL	5	5	-	-	-	-	-	-	125
IV Livestock Production and Management	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	1	1	-	-	-	-	-	-	25
Integrated Disease Management	7	7	-	-	-	-	-	-	175
Bio-control of pests and diseases	1	1	-	-	-	-	-	-	25
TOTAL	9	9	-	-	-	-	-	-	225
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
GRAND TOTAL	38	38	-	-	-	-	-	-	950
(B) RURAL YOUTH									
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										
April	F & FW	Weed Management of Blackgram & Greengram in Summer	1	-	-	-	-	-	-	25
May	F & FW	Importance of Green Manuring	1	-	-	-	-	-	-	25
July	F & FW	IWM in major Kharif crops	1	-	-	-	-	-	-	25
July	F & FW	Production technology of Sesame under natural farming	1	-	-	-	-	-	-	25
August	F & FW	ICM in Groundnut crop	1	-	-	-	-	-	-	25
October	F & FW	ICM in Chickpea & Fieldpea crop	1	-	-	-	-	-	-	25
November	F & FW	IWM in major Rabi crops	1	-	-	-	-	-	-	25

Soil Science										
May	F & FW	Use of Soil Health card and its importance	1	-	-	-	-	-	-	25
June	F & FW	Nutrients management in Kharif crops	1	-	-	-	-	-	-	25
October	F & FW	Use of Bio-fertilizers and its importance	1	-	-	-	-	-	-	25
November	F & FW	Nutrients management in Rabi crops	1	-	-	-	-	-	-	25
TOTAL	-	4	4	-	-	-	-	-	-	100
GRAND TOTAL	-	41	41	0	0	0	0	0	0	1025

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 summer deep ploughing	1	-	-	-	-	-	-	25
June	F & FW	IWM in major Oilseed crops	1	-	-	-	-	-	-	25
July	F & FW	IWM in major Pulse crops	1	-	-	-	-	-	-	25
July	F & FW	Production technology of Blackgram under Natural farming	1	-	-	-	-	-	-	25
September	F & FW	Importance of IFS and its advantage	1	-	-	-	-	-	-	25
September	F & FW	Importance of organic farming	1	-	-	-	-	-	-	25
October	F & FW	ICM of mustard crop	1	-	-	-	-	-	-	25
November	F & FW	IWM in major Cereal crops in Rabi season	1	-	-	-	-	-	-	25
December	F & FW	Water management in Rabi crops	1	-	-	-	-	-	-	25
April	F & FW	Safe storage of Rabi seed	1	-	-	-	-	-	-	25
June	F & FW	Selection of varieties in Groundnut & Sesame	1	-	-	-	-	-	-	25
September	F & FW	Grading, Packing and Storage of Kharif pulse produce	1	-	-	-	-	-	-	25
October	F & FW	Production technology of Lentil	1	-	-	-	-	-	-	25
October	F & FW	Selection of Bio fortified varieties in Wheat crop	1	-	-	-	-	-	-	25
November	F & FW	Importance of inter cropping in Rabi crops	1	-	-	-	-	-	-	25
November	F & FW	Importance of Classification of seeds	1	-	-	-	-	-	-	25
December	F & FW	Importance of Shri Ann	1	-	-	-	-	-	-	25
December	F & FW	Importance of Roughing in Rabi crops under seed production	1	-	-	-	-	-	-	25
TOTAL	-	18	18	-	-	-	-	-	-	450
Horticulture										
June	F & FW	Layout & plantation of fruit plants	1	-	-	-	-	-	-	25
July	F & FW	Production technology of cowpea & garden pea	1	-	-	-	-	-	-	25
October	F & FW	Production technology of capsicum & sweet paper	1	-	-	-	-	-	-	25
October	F & FW	Preparation of raised bed nursery vegetable crops and their management	1	-	-	-	-	-	-	25
November	F & FW	Importance of nutritional garden in human diet	1	-	-	-	-	-	-	25
December	F & FW	Production technology of Onion & Garlic	1	-	-	-	-	-	-	25
TOTAL	-	6	6	-	-	-	-	-	-	150
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
April	F & FW	Biological safe methods of storage grain pests	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	
June	F & FW	Prevention methods of tuber / rhizome borne diseases in colocasia and ginger	1	-	-	-	-	-	-	25
July	F & FW	Leaf spot disease management in Groundnut	1	-	-	-	-	-	-	25
August	F & FW	Integrated disease management in blackgram	1	-	-	-	-	-	-	25
September	F & FW	Leaf curl virus management in vegetable crops	1	-	-	-	-	-	-	25
November	F & FW	Integrated management of shoot and fruit borer in vegetable crops	1	-	-	-	-	-	-	25
November	F & FW	Integrated management of leaf spot diseases of wheat	1	-	-	-	-	-	-	25
November	F & FW	Purple blotch disease management in Onion	1	-	-	-	-	-	-	25
December	F & FW	Integrated disease management in wheat	1	-	-	-	-	-	-	25
TOTAL	-	9	9	-	-	-	-	-	-	225
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
May	F & FW	Importance of Soil Testing	1	-	-	-	-	-	-	25
June	F & FW	Use of Sulphur in oilseed crops	1	-	-	-	-	-	-	25
July	F & FW	Importance & Application of Bio-digester	1	-	-	-	-	-	-	25
October	F & FW	Importance of Vermi compost	1	-	-	-	-	-	-	25
November	F & FW	STL based nutrient application	1	-	-	-	-	-	-	25
TOTAL	-	5	5	-	-	-	-	-	-	125
GRAND TOTAL	-	38	38	-	-	-	-	-	-	950

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Client ele	Title of the training programme	Durati on in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
September	RY	Importance of Natural farming	3	-	-	-	-	-	-	20
December	RY	Production of organic inputs	3	-	-	-	-	-	-	20
July	RY	Seed production technology of Blackgram	3	-	-	-	-	-	-	20
November	RY	Seed production technology of Fieldpea	3	-	-	-	-	-	-	20
Horticulture										
July	RY	Seed production technology of major cucurbits crops	3	-	-	-	-	-	-	20
August	RY	Training on Budding, Grafting and inarching in fruits crops	3	-	-	-	-	-	-	20
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
September	RY	Oyster Mushroom Production	3	-	-	-	-	-	-	20
November	RY	Button Mushroom Production	3	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
September	RY	Importance & Production method of Vermi compost	3	-	-	-	-	-	-	20
TOTAL	-	9	27	-	-	-	-	-	-	180

Training Programme for Extension Functionaries:

Month/ Tentative Date	Client ele	Title of the training programme	Durati on in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	IS	Production technology of blackgram under natural farming	1	-	-	-	-	-	-	20
November	IS	Production technology of wheat under natural farming	1	-	-	-	-	-	-	20
June	IS	Productivity enhancement through seed production technology of major Kharif crops	1	-	-	-	-	-	-	20
November	IS	Productivity enhancement through seed production technology of major Rabi crops	1	-	-	-	-	-	-	20
Horticulture										
September	IS	Production technology of pointed gourd & IV gourd	1	-	-	-	-	-	-	20
November	IS	Protected cultivation of Tomato under Net house with stacking method	1	-	-	-	-	-	-	20
December	IS	Production technology of vegetable crops under natural faming	1	-	-	-	-	-	-	20
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July	IS	IDM in major Kharif crops	1	-	-	-	-	-	-	20
September	IS	IPM in Vegetable crops	1	-	-	-	-	-	-	20
October	IS	IDM in horticulture crops	1	-	-	-	-	-	-	20
November	IS	IDM in major Rabi crops	1	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
July	IS	Role of essential Nutrients in major Kharif crops	1	-	-	-	-	-	-	20
October	IS	Fertilizer management in major Rabi crops	1	-	-	-	-	-	-	20
December	IS	Use of liquid fertilizers	1	-	-	-	-	-	-	20
TOTAL	-	14	14	-	-	-	-	-	-	280

Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Extension Literature	5	-	-	-	-	-	-	-	-	5000
Farmers Seminar	2	-	-	-	-	-	-	-	-	200
Farmers visit to KVK	60	-	-	-	-	-	-	-	-	2000
Field Day	15	-	-	-	-	-	-	-	-	500
Film Show	5	-	-	-	-	-	-	-	-	150
Group meetings	10	-	-	-	-	-	-	-	-	200
Kisan Ghosthi	10	-	-	-	-	-	-	-	-	200
Kisan Mela	2	-	-	-	-	-	-	-	-	2000
Lectures delivered as resource persons	50	-	-	-	-	-	-	-	-	1500
Mahila Mandals Conveners meetings	2	-	-	-	-	-	-	-	-	100
Method Demonstrations	7	-	-	-	-	-	-	-	-	400
Pradhanmantri phasal beema yojana	2	-	-	-	-	-	-	-	-	100
Scientific visit to farmers field	50	-	-	-	-	-	-	-	-	500
Self Help Group Conveners meetings	2	-	-	-	-	-	-	-	-	50
Soil health Camp	2	-	-	-	-	-	-	-	-	100
Soil test campaigns	2	-	-	-	-	-	-	-	-	50
Workshop	2	-	-	-	-	-	-	-	-	200
Celebration of important days	10	-	-	-	-	-	-	-	-	500
Others (pl. specify)	5	-	-	-	-	-	-	-	-	200
Newspaper coverage	70	Mass								
Popular articles	10	Mass								
Radio talks	10	Mass								
TV talks	5	Mass								
Total	511	-	-	-	-	-	-	-	-	66500

Target for Production and supply of Technological products

Seed Materials (Seed Hub)

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
OILSEEDS	-	-	-
PULSES	Blackgram	Indira Urd-1, IPU 13-1, IPU 10-26	300
	Chickpea	JG 24, JG 36	300
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-
TOTAL	-	-	600

Planting Materials

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady	500
	Dragon Fruit	Red Flesh	200
	Mango	Langda, Dussheri	100
VEGETABLES	Drumstick	PKM-1	500
	Tomato	Kashi Abhiman, US Agri 1504, Abhilash	5000
	Brinjal	Kashi Sandesh, Kashi Taru, Kashi Prakash	5000
	Broccoli	Calabrese	1000
	Capsicum	Asha, Jaya	1000
ORNAMENTAL CROPS	Champa	Pink Champa, Nag Champa	100
	Madhu Kamini	Madhu Kamini White Flower	100
FLOWER CROPS	Marigold	Indus – Pushpraj, Pusa Arpita	500
TOTAL	-	-	14000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
BIOFERTILIZERS				
1	Vermicompost	-	-	2000
2	NADEP	-	-	1000
BIO PESTICIDES				
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Buffalo	Murrah – Artificial Insemination	25	-
SHEEP AND GOAT	Goat	Sirohi Bucks	4	-
POULTRY	Poultry	Kadakhnath & Narmada Nidhi (Birds)	2000	-

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 – 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, Natural farming, Seed Hub)

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)	25	60.0 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)	30	50.0 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: 1134 Sq. m.

Crop	Season	Variety	Details	Area (Sq m)
Soybean	Kharif	JS 2029, JS 2034, JS 2069, JS 2098, RVS 2001-04	5 varieties	80
Sesame	Kharif	TKG 306, TKG 308, GJT-6	3 varieties	48
Blackgram	Kharif	IPU 13-1, MU-02, Pratap Urd-1, Indira Urd-1, PU-9	5 varieties	80
Groundnut	Kharif	Lepakchi Kadiri 1812, Nithya Haritha (TCGS 1157)	2 varieties	32
Kodo	Kharif	JK 137	1 variety	4
Finger Millet	Kharif	RAU 8	1 variety	4
Tomato	Kharif	Kashi Vishesh, Kashi Abhiman, Kashi Sharad	3 varieties	60
Brinjal	Kharif	Kashi Sandesh, Kashi Taru, Kashi Prakash	3 varieties	60
Chilli / Capsicum	Kharif & Rabi	Disha, Kashi Anmol, Asha	3 varieties	60
Mustard	Rabi	Giriraj, RH 406, RH 749, RH 725, RH 761	5 varieties	80
Chickpea	Rabi	JG 14, JG 16, JG 24, JG 36, RVG 202	5 varieties	80
Fieldpea	Rabi	IPFD 12-2, IPFD 10-12	2 varieties	32
Wheat	Rabi	HI 1633, HI 1634, HI 8737, HI 8759, JW 3465	5 varieties	80
Lentil	Rabi	IPL 316, L 4727, RVL 31	3 varieties	48
Barley	Rabi	DWRB 137, RD 2899	2 varieties	32
Linseed	Rabi	JLS 9, JLS 27, JLS 66, JLS 67	4 varieties	64
Table Pea	Rabi	Kashi Nandi, Kashi Uday	2 varieties	40
Rare Vegetables	Rabi	Chinese Cabbage, Red Cabbage, Celery, Lettuce, Knol Khol, Broccoli	6 varieties	250

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /Details	Area (Sq m)	Output /Production
Net House	Vegetable Production	1000	10000 Rs.
Poultry	Kadaknath, Narmada Nidhi, Chebro, Grampriya, Asheel	10	1000 Rs.
NADEP	10 q.	10	2000 Rs.
Azolla	50 kg.	8	1000 Rs.
Vermi Compost	20 q.	12	20000 Rs.

Goatry	4 No.	600	20000 Rs.
Mushroom	20 kg.	10	1000 Rs.
Natural Farming Demo	1000 lit.	10	2000 Rs.
Fodder Unit	2000 root slips	200	2000 Rs.
Fisheries	1000 fingure lings	500	15000 Rs.
Lemon Grass and Oil Extraction Plant	10 lit.	10	2000 Rs.
Medicinal	-	50	-
Bio Fortified varieties Demo	5 q.	1000	12500

ANNUAL ACTION PLAN 2024

KVK Umaria

Year of sanction: 2024

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. K P Tiwari		9424888060	kvkumaria@rediffmail.com

1.2 Staff Position on (31th Dec.2023)

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	Dr Dhananjai Singh	Scientist	Agronomy	7 th pay scale	21/03/2007	05/09/2024	9424641061	kvkumaria@rediffmail.com	
5	Subject Matter Specialist									
6	Subject Matter Specialist									
7	Subject Matter Specialist									
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	Computer Programmer/ 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									
12	Jr. Stenographer / Comp. Operator									
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									
16	Supporting staff									

1.3 Total land with KVK (in ha):..... 20.00

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)	11
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	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 2024
2	15 November 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	Pddy-heat in cereal, Pigeonpea and Chickpea in pulses and sesame – mustard in oilseed are major crops of Kharif and Rabi
2	AES – 2	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	Characteristics
1	AES – 1 Zone – XI Hot sub humid ecoregion with red and yellow soil (Eastern plateau- Chhatisgarh Region)	Characterized by undulating topography, denuded hills, plateau, river valleys, high lands of the Eastern Ghats and wide basins of Chattisgarh. 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- Chhatisgarh 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%)

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, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023			
Feb. 2023			
Mar. 2023			
Apr. 2023			
May. 2023			
Jun. 2023			
July. 2023			
Aug. 2023			
Sept. 2023			
Oct. 2023			
Nov. 2023			
Dec. 2023			

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 (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bandhavgarh	Manpur	Karaundi Tola	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
2	Pali	Pali	Dhupkheda			
3	Chandiya	Karkeli	Dogargawa			
4	Chandiya	Karkeli	Kohaka			

						women • Development of rural entrepreneurship for income and employment generation like Bee Keeping and mushroom cultivation, processing & value addition of Mahua

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
20	255	18	210

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	1380	101	3000

Seed Production (Qtl.)	Planting material (Nos.)
0	46000

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 Replacement	Pigeon pea	Low yield of Pigeon pea crop due to effect of frost in long duration varieties	Assessment of early maturing variety BDN-711 & BDN 716 of Pigeon pea		ICM in Pigeon pea	ICM in kharif crops		Seed
		Wheat	Low yield of wheat due to higher temperature at terminal stage	Assessment of wheat variety JW 3336 under late sown condition in rice-wheat cropping system					Seed
		Kodo	Low yield due to use of old and indigenous variety		Demonstration of improved variety JK-136 of Kodo millet			Awareness prog	Seed
		Kutki	Low yield due to use of old and indigenous variety		Demonstration of improved variety JK-4 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
2	ICM	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
		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
3	Crop Diversification	Sorghum	Assessment of Sorghum variety CSH-30 as a new crop for crop diversification			Production technology of Jowar	Awareness prog		Seed
4	INM	Rice	Low yield of Rice due to no use of bio	Assessment of microbial consodia and		Soil fertility management under natural	Production and use of organic inputs		Biofertilizer

			fertilizers	BGA in Hybrid Rice		farming			
		Rice	Unavailability of granular urea at critical stage	Assessment of foliar application of Nano urea in rice crop					Nano urea
		Rice	Costly and timely unavailability of granular DAP	Assessment of application of Nano DAP in rice					Nano DAP
		Pigeonpea			Demonstration of INM and Ridge Furrow method of sowing in Pigeon pea				Fertilizer
		Wheat	Unavailability of granular urea at critical stage	Assessment of foliar application of Nano urea in Wheat					
		Wheat	Costly and timely unavailability of granular DAP	Assessment of application of Nano DAP in Wheat					
		Wheat			Demonstration of water soluble fertilizer in wheat crop				water soluble fertilizer
		Mustard			Demonstration on response of Sulphur in Mustard				Sulphur
5	IPM	Rice	Severe Disease infection causing low yield also seed/Grain quality Deterioration	Assessment of disease management module s for false smut in rice crop		IPM in major kharif crops IPM in major rabi crops			Funficide
6	Weed management	Wheat		Assessment of post emergence herbicide clodinofox 15% + metsulfuron 1% at 25-35 DAS for weed management in wheat in rice-wheat cropping system Low yield of wheat due to heavy weed infestation					Herbicide
7	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		Demonstration of ridge furrow system sowing of pigeon pea			Awareness prog.	Seed

			broadcast sowing.						
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	Promotion of Natural farming	Paddy	Higher cost of cultivation as Farmers use chemical farming	Assessment of adaption of natural farming system in paddy cultivation					
10	Nutritional security	Vegetables	High magnitude of malnutrition and low immunity among farm families		Demonstration on kitchen gardening	Establishment of kitchen gardening	Kitchen gardening		Seed, Planting material
		Maize	High magnitude of malnutrition and low immunity among farm families	Assessment of bio-fortified variety of Maize – JM 1014					Seed
		Paddy	High magnitude of malnutrition and low immunity among farm families		Demonstration on cultivation of Bio-fortified variety of Paddy CR Dhan 310 for nutritional security				Seed
11	Post harvest management	Pulses	Loss in storage		Demonstration on pro super bags for safe storage of Pulses				Pro super bags
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.	Green net
		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			Green net
		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		Preparation of recipes from millet	Importance and use of millets	Awareness prog.	

[illegible]

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of microbial consortia and BGA in Hybrid Rice	
Problem diagnosed	Low yield of Rice due to no use of bio fertilizers	
Farmers' Practices	No use of bio fertilizers and use of NPK @ 60:35:0 kg/ha	
Details of technologies selected for assessment	T ₁	No use of bio fertilizers and use of NPK @ 60:35:0 kg/ha
	T ₂	75 % N and 100 % PK of RDF + Soil Application of Rhizobacteria (Azospirillum brasilense+ Bacillus subtilis) @ 3 kg/ha before transplanting
	T ₃	75 % N and 100 % PK of RDF + Soil Application of Rhizobacteria (Azospirillum brasilense+ Bacillus subtilis) @ 3 kg/ha before transplanting + Soil Application of BGA @ 10 kg/ha after 7 DAT
Source of technology	IARI, 2011	
Plot size	1.0 acre	
No. of farmers	05	
Total cost	6500	
Critical input	Rhizobacteria and BGA	
Performance indicators:	No of tillers/ m ² · Yield (q/ha) , Net return and B:C ratio	

OFT-2

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of disease management modules for false smut in rice crop	
Problem diagnosed	Severe Disease infection causing low yield also seed/Grain quality Deterioration	
Farmers' Practices	No seed treatment	
Details of technologies selected for assessment	T ₁	No seed treatment
	T ₂	Seed treatment with Carbendazim 50%wp @ 2 gm / kg seed + 2 Spray of Propiconazole (25% EC) @ 1 ml/l water (at 15 days interval after 50% panicle emergence)
	T ₃	Seed treatment with Carbendazim 50%wp @ 2 gm / kg seed + 2 Spray of Tebuconazole(2%DS) @ 1 ml/l water at 15 days interval
Source of technology	NRRI, Cuttack 2020	
Plot size	1.0 acrs	
No. of farmers	05	
Total cost	4000	
Critical input	Carbendazim, Propiconazole and Tebuconazole	
Performance indicators:	No of tillers/ m ² · Yield (q/ha) , Net return and B:C ratio	

OFT-3

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of post emergence herbicide clodinofof 15% + metsulfuron 1% at 25-35 DAS for weed management in wheat in rice-wheat cropping system	
Problem diagnosed	Low yield of wheat due to heavy weed infestation	
Farmers' Practices	No weed management	
Details of technologies selected for assessment	T ₁	No weed management
	T ₂	Clodinofof 15% + Metsulfuron 1% @ (60+4 g/ha) at 25-35 DAS
	T ₃	
Source of technology	DWR, Jabalpur-2017	
Plot size	1.0 acrs	
No. of farmers	05	
Total cost	4000	
Critical input	Clodinofof 15% + Metsulfuron 1%	
Performance indicators:	No of weeds/m ² · Weed control efficiency , Yield (q/ha), Net return and B:C ratio	

OFT-4

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of wheat variety JW 3336 under late sown condition in rice-wheat cropping system	
Problem diagnosed	Low yield of wheat due to higher temperature at terminal stage	

Farmers' Practices	JW 3211	
Details of technologies selected for assessment	T ₁	JW 3211
	T ₂	JW 3336
	T ₃	
Source of technology	JNKVV, Jabalpur 2012	
Plot size	1.0 acrs	
No. of farmers	05	
Total cost	10000	
Critical input	Seed	
Performance indicators:	No of spikes/plant, Yield (q/ha), Net return and B:C ratio	

OFT-5

Crop / Enterprise	Pigeonpea	
Title of on farm trial	Assessment of early variety BDN-711 and BDN 716 of Pigeon pea	
Problem diagnosed	Low yield of Pigeon pea crop due to use degenerated seed of old variety	
Farmers' Practices	Asha (ICPL 87-119) (1993)	
Details of technologies selected for assessment	T ₁	Asha (ICPL 87-119) (1993)
	T ₂	BDN -711 (2012)
	T ₃	BDN -716 (2016)
Source of technology	ARS Badnapur - 2016	
Plot size	2000 sq meter	
No. of farmers	05	
Total cost	6000	
Critical input	Seed	
Performance indicators:	Days of maturity, No of pod /plant, seeds/pod, yield/plant, Yield (q/ha), Net return and B:C ratio	

OFT-6

Crop / Enterprise	Sorghum	
Title of on farm trial	Assessment of Sorghum variety CSV-41 as a new crop for crop diversification	
Problem diagnosed	Less income due to growing of Maize	
Farmers' Practices	No cultivation of sorghum	
Details of technologies selected for assessment	T ₁	No cultivation of sorghum
	T ₂	CSV-41
	T ₃	
Source of technology	IIMR, Hyderabad - 2020	
Plot size	2000 sq meter	
No. of farmers	05	
Total cost	3000	
Critical input	Seed variety –CSV-41	
Performance indicators:	Yield (q/ha), Net return and B:C ratio	

OFT-7

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of foliar application of Nano urea in rice crop	
Problem diagnosed	Unavailability of granular urea at critical stage	
Farmers' Practices	Use of granular urea (NPK @ 60:35:0 kg/ha)	
Details of technologies selected for assessment	T ₁	Use of granular urea (NPK @ 60:35:0 kg/ha)
	T ₂	50% N + 100% PK as basal and Foliar application of nano urea @4ml/lit. at 35-40 and 55-60 DAS
	T ₃	
Source of technology	ICAR, CIARI, Port Blair (2022)	
Plot size	4000 sq meter	
No. of farmers	05	
Total cost	6500	
Critical input	Nano urea	
Performance indicators:	No of tillers/ hill, No of panicles/plant, Yield (q/ha), Net return and B:C ratio	

OFT-8

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of application of Nano DAP in rice	
Problem diagnosed	Costly and timely unavailability of granular DAP	
Farmers' Practices	Use of granular DAP (NPK @ 60:35:0 kg/ha)	
Details of technologies selected for assessment	T ₁	Use of granular DAP (NPK @ 60:35:0 kg/ha)
	T ₂	100% NK + 50% P and Use of nano DAP for seedling treatment (5ml/kg seed) before transplanting and foliar spray @5ml/lit. at 20-25 DAT
	T ₃	
Source of technology	IGKV, Chhattisgarh (2022)	
Plot size	4000 sq meter	
No. of farmers	05	
Total cost	7000	
Critical input	Nano DAP	
Performance indicators:	No of tillers/ hill, No of panicles/plant, Yield (q/ha), Net return and B:C ratio	

OFT-9

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of foliar application of Nano urea in Wheat	
Problem diagnosed	Unavailability of granular urea at critical stage	
Farmers' Practices	Use of granular urea (NPK @ 60:35:0 kg/ha)	
Details of technologies selected for assessment	T ₁	Use of granular urea (NPK @ 60:35:0 kg/ha)
	T ₂	Application of 50% N + 100%PK and Foliar application of nano urea @ 4ml/lit. water at 35-40 and 55-60 DAS
	T ₃	
Source of technology	ICAR, IARI, New Delhi (2023)	
Plot size	4000 sq meter	
No. of farmers	05	
Total cost	7000	
Critical input	Nano urea	
Performance indicators:	No of spikes/plant, No of panicles/ m row lenGth, Yield (q/ha), Net return and B:C ratio	

OFT-10

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of application of Nano DAP in Wheat	
Problem diagnosed	Costly and timely unavailability of granular DAP	
Farmers' Practices	Use of granular DAP (NPK @ 60:35:0 kg/ha)	
Details of technologies selected for assessment	T ₁	Use of granular DAP (NPK @ 60:35:0 kg/ha)
	T ₂	100% NK + 50% P and Use of nano DAP for seed treatment (5ml/kg seed) and foliar spray @4ml/lit. water at tillering stage
	T ₃	
Source of technology	BHU, Varanasi (2022)	
Plot size	4000 sq meter	
No. of farmers	05	
Total cost	7000	
Critical input	Nano urea	
Performance indicators:	No of spikes/plant, No of panicles/ m row lenGth, Yield (q/ha), Net return and B:C ratio	

OFT-11

Crop / Enterprise	Millets	
Title of on farm trial	Assessment of malted multi millet mix for improving nutritional status of children under 5 years of age	
Problem diagnosed	No use of malted millet mix for feeding children	
Farmers' Practices	Use of millets in the form of chapati/rice	
Details of technologies selected for assessment	T ₁	Use of millets in the form of chapati/rice
	T ₂	Use of malted multi millet mix @ 30g/day for 60 days

	T ₃	
Source of technology	IIMR, Hyderabad	
Plot size	-	
No. of farmers	05	
Total cost	5000	
Critical input	Millets , groundnut , sesame etc	
Performance indicators:	Anthropometric measurements (Weight, Height, MUAC)	

OFT-12

Crop / Enterprise	Enterprise (NTFS)-Mahua	
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 surface	
Farmers' Practices	Collection of mahua flower on ground surface	
Details of technologies selected for assessment	T ₁	Use of millets in the form of chapati/rice
	T ₂	Collection of mahua flower in net for quality improvement
	T ₃	
Source of technology	OUAT, ORRISA	
Plot size	-	
No. of farmers	05	
Total cost	12500	
Critical input	Green Net	
Performance indicators:	Quality of produce (color, Cleanliness)	

OFT-13

Crop / Enterprise	Enterprise (NTFS)-Mahua	
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
	T ₃	
Source of technology	OUAT, ORRISA	
Plot size	-	
No. of farmers	05	
Total cost	17000	
Critical input	Green Net	
Performance indicators:	Quality of produce (colour, Cleanliness)	

OFT-14

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of bio-fortified variety of Maize – JM 1014	
Problem diagnosed	High magnitude of malnutrition and low immunity among farm families	
Farmers' Practices	Use of variety JM 216	
Details of technologies selected for assessment	T ₁	Use of variety JM 216
	T ₂	Use of bio-fortified variety- JM 1014
	T ₃	
Source of technology	JNKVV, Jabalpur 2022	
Plot size	2000m ²	
No. of farmers	05	
Total cost	2000	
Critical input	seed	
Performance indicators:	Yield (q/ha) , Nutritional value, Net income and B:C ratio	

OFT-15

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 do not uses specific crop based advisories	
Details of technologies selected for assessment	T ₁	Farmers do not uses specific crop based advisories
	T ₂	Kisan Sarthi agri – information system
	T ₃	
Source of technology	-	
Plot size	-	
No. of farmers	80	
Total cost	-	
Critical input	-	
Performance indicators:	Knowledge , Adoption & Problem solving	

OFT-16

Crop / Enterprise	Enterprise	
Title of on farm trial	Assessment of adoption of natural farming system in paddy cultivation	
Problem diagnosed	Higher cost of cultivation due to chemical farming	
Farmers' Practices	Chemical farming	
Details of technologies selected for assessment	T ₁	Chemical farming
	T ₂	Various components of Natural farming
	T ₃	
Source of technology	-	
Plot size	0.4	
No. of farmers	80	
Total cost	-	
Critical input	-	
Performance indicators:	Knowledge , Adoption , Yield and cost saving	

OFT -1 Animal Science

1	Enterprise	Buffalo
2	Title of on-farm trial	Assessment of spineless cactus as fodder in dairy animals
3	Problem diagnosed	Low milk production due to lack of availability of green fodder in summer season
4	Farming situation	Rainfed
5	Production system and thematic area	Fodder 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 : Stall Feeding of spineless cactus @ 5 kg/animal/day
8	Source of technology	IGFRI, Jhansi - 2017
9	No. of animals	05
10	No. of farmers	05
11	Critical input	Spineless cactus
12	Cost of input	2000
13	Total cost	5500
14	Performance indicators Observation to be recorded	Milk production (lit./d/animal), Net return and B:C ratio

OFT -2 Animal Science

1	Enterprise	Cow
2	Title of on-farm trial	Assessment of IGFRI Hybrid Napier 3 for round the year fodder in lactating animals
3	Problem diagnosed	Low Productivity of dairy animals due to unavailability of green fodder round the year

4	Farming situation	Irrigated
5	Production system and thematic area	Feed Management
6	Farmers' practices	Use of Wheat straw @ 8 kg/day/ Cattle
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : Use of Wheat straw @ 8 kg/day/ Cattle T ₂ : Use of Wheat straw @ 8 kg/day/ Cattle + IGFR Hybrid Napier 3 Green Fodder @ 15 kg/ Cattle/ Day
8	Source of technology	IGFRI, Jhansi 1984
9	No. of animals	05
10	No. of farmers	05
11	Critical input	Root slips/stem cuttings
12	Cost of input	2000
13	Total cost	5500
14	Performance indicators Observation to be recorded	Milk production (lit./d/animal), Net return and B:C ratio

OFT -3 Animal Science

1	Enterprise	Buffalo
2	Title of on-farm trial	Assessment of NIFS Poly Herbal Medication to control tick infestation in dairy animals
3	Problem diagnosed	Productivity of dairy animals affected due to tick infestation
4	Farming situation	Irrigated/Rainfed
5	Production system and thematic area	LPM
6	Farmers' practices	No use of medicine for tick infestation
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : No use of medicine for tick infestation T ₂ : NIFS Poly Herbal Medicine (2.5 kg fresh leaves of neem kept in 4 liter lukewarm water + 1 kg fresh leaf of nirgundi in 2 liter lukewarm water
8	Source of technology	NDRI, Karnal 2020
9	No. of animals	05
10	No. of farmers	05
11	Critical input	NIFS Poly Herbal Medicine
12	Cost of input	2000
13	Total cost	5500
14	Performance indicators Observation to be recorded	Milk production (l/d/animal), Net return and B:C ratio

OFT - 4 Animal Science

1	Enterprise	Buffalo
2	Title of on-farm trial	Assessment of yeast culture for its effect on fiber digestion and milk production in dairy buffaloes
3	Problem diagnosed	Low milk yield due to indigestibility of feed due to lack of probiotic
4	Farming situation	Irrigated/Rainfed
5	Production system and thematic area	LPM
6	Farmers' practices	No use of diet supplement
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : No use of diet supplement T ₂ : Probiotics @ 20g/day/animal
8	Source of technology	NDRI, Karnal (2012)
9	No. of animals	05
10	No. of farmers	05
11	Critical input	Yeast culture
12	Cost of input	1000
13	Total cost	5500
14	Performance indicators Observation to be recorded	Milk production (l/d/animal), Net return and B:C ratio

Detailed Information about OFT: 1

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 microbial consodia and BGA in Hybrid Rice
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to no use of microbial consodia and BGA
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-	No use of bio fertilizers and use of NPK @ 60:35:0 kg/ha
T2 –Recommended Practice-	75 % N and 100 % PK of RDF + Soil Application of Rhizobacteria (Azospirillum brasiliense+ Bacillus subtilis) @ 3 kg/ha before transplanting
T3- Recommended Practice-	75 % N and 100 % PK of RDF + Soil Application of Rhizobacteria (Azospirillum brasiliense+ Bacillus subtilis) @ 3 kg/ha before transplanting + Soil Application of BGA @ 10 kg/ha after 7 DAT
Date of sowing:	1-20 July 2024
Date of harvesting:	15-30 October 2024
Source of technology:	IARI, 2011
Characteristics of technology:	Biofertilizers supply nutrient and prevent the soil degradation
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about 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 disease management module s for false smut in rice crop
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Severe Disease infection causing low yield also seed/Grain quality Deterioration
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 use any control method
T2 –Recommended Practice-	Seed treatment with Carbendazim 50%wp @ 2 gm / kg seed + 2 Spray of Propiconazole (25% EC) @ 1 ml/l water (at 15 days interval after 50% panicle emergence)
T3- Recommended Practice-	Seed treatment with Carbendazim 50%wp @ 2 gm / kg seed + 2 Spray of Tebuconazole(2%DS) @ 1 ml/l water at 15 days interval
Date of sowing:	1-20 July 2024
Date of harvesting:	15-30 October 2024
Source of technology:	NRRI, Cuttack 2020
Characteristics of technology:	Reduces the disease infestation
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about 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 post emergence herbicide clodinofox 15% + metsulfuron 1% at 25-35 DAS for weed management in wheat in rice-wheat cropping system
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to heavy weed infestation
Thematic area:	Weed 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 weed management
T2 –Recommended Practice-	Clodinofox 15% + Metsulfuron 1% @ (60+4 g/ha) at 25-35 DAS
T3- Recommended Practice-	
Date of sowing:	1-20 November 2024
Date of harvesting:	1-15 April 2025
Source of technology:	DWR, Jabalpur-2017
Characteristics of technology:	Broad spectrum herbicide
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about 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 wheat variety JW 3336 under late sown condition in rice-wheat cropping system
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to higher temperature at terminal stage
Thematic area:	Variety Replacement
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 3211
T2 –Recommended Practice-	JW 3336
T3- Recommended Practice-	
Date of sowing:	1-20 December 2024
Date of harvesting:	1-15 April 2025
Source of technology:	DWR, Jabalpur-2017
Characteristics of technology:	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 50 q/ha.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 5

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 early variety BDN-711 and BDN 716 of Pigeon pea
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of pigeonpea due to use of degenerated seed of old variety
Thematic area:	Variety Replacement
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-	ICPL 87-119
T2 –Recommended Practice-	BDN 711
T3- Recommended Practice-	BDN 716

Date of sowing:	1-20 July 2024
Date of harvesting:	1-15 February 2025
Source of technology:	ARS Badnapur - 2016
Characteristics of technology:	It matures in 160-165 days, bold grain, red colour. Indeterminate, spreading, resistant to wilt and sterility mosaic. Yield 21-22 q/ha.
Name of Crop/Enterprises:	Pigeonpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 6

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 Sorghum variety CSV-41 as a new crop for crop diversification
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Less income due to maize
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/ refinement:	
T1 – Farmers Practice-	Maize
T2 –Recommended Practice-	CSV-41
T3- Recommended Practice-	
Date of sowing:	1-20 July 2024
Date of harvesting:	1-15 November 2024
Source of technology:	IIMR, Hyderabad - 2020
Characteristics of technology:	2019, Grain yield – 32 q/ha, Fodder yield – 165 q/ha, Maturity – 106-110 days
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 7

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 foliar application of Nano urea in rice crop
Year/Season:	2024/ Kharif
Farming situation:	Rainfed

Problem diagnosis:	Unavailability of granular urea at critical stage
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-	Use of granular urea (NPK @ 60:35:0 kg/ha)
T2 –Recommended Practice-	50% N + 100% PK as basal and Foliar application of nano urea @4ml/lit. at 35-40 and 55-60 DAS
T3- Recommended Practice-	-
Date of sowing:	1-20 July 2024
Date of harvesting:	1-15 November 2024
Source of technology:	ICAR, CIARI, Port Blair (2022)
Characteristics of technology:	Nano Urea contains 4.0 % total nitrogen (w/v). Nano nitrogen particle size varies from 20-50 nm. These particles are evenly dispersed in water. Nano Urea because of its small size (20-50nm) and higher use efficiency (> 80 %) increases availability of nitrogen to the plant.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 8

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 application of Nano DAP in rice
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Costly and timely unavailability of granular DAP
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-	Use of granular DAP (NPK @ 60:35:0 kg/ha)
T2 –Recommended Practice-	100% NK + 50% P and Use of nano DAP for seedling treatment (5ml/kg seed) before transplanting and foliar spray @5ml/lit. at 20-25 DAT
T3- Recommended Practice-	-
Date of sowing:	1-20 July 2024
Date of harvesting:	1-15 November 2024
Source of technology:	IGKV, Chhattisgarh (2022)
Characteristics of technology:	Nano DAP is opalescent white aqueous Nano fertiliser for foliar application, It contains Nano particles of DAP with N – 2% (w/v) and

	P2O5 – 5%(w/v), It has small size and high surface area that enables increased Nutrient Use. Efficiency and higher absorption.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 9

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 foliar application of Nano urea in Wheat
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Unavailability of granular urea at critical stage
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-	Use of granular urea (NPK @ 60:35:0 kg/ha)
T2 –Recommended Practice-	Application of 50% N + 100%PK and Foliar application of nano urea @ 4ml/lit. water at 35-40 and 55-60 DAS
T3- Recommended Practice-	-
Date of sowing:	1-20 November 2024
Date of harvesting:	1-15 April 2025
Source of technology:	ICAR, IARI, New Delhi (2023)
Characteristics of technology:	Nano Urea contains 4.0 % total nitrogen (w/v). Nano nitrogen particle size varies from 20-50 nm. These particles are evenly dispersed in water. Nano Urea because of its small size (20-50nm) and higher use efficiency (> 80 %) increases availability of nitrogen to the plant.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 10

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 application of Nano DAP in Wheat
Year/Season:	2024/ Rabi
Farming situation:	Irrigated

Problem diagnosis:	Costly and timely unavailability of granular DAP
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-	Use of granular DAP (NPK @ 60:35:0 kg/ha)
T2 –Recommended Practice-	100% NK + 50% P and Use of nano DAP for seed treatment (5ml/kg seed) and foliar spray @4ml/lit. water at tillering stage
T3- Recommended Practice-	-
Date of sowing:	1-20 November 2024
Date of harvesting:	1-15 April 2025
Source of technology:	BHU, Varanasi (2022)
Characteristics of technology:	Nano DAP is opalescent white aqueous Nano fertiliser for foliar application, It contains Nano particles of DAP with N – 2% (w/v) and P2O5 – 5%(w/v), It has small size and high surface area that enables increased Nutrient Use. Efficiency and higher absorption.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 11

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Home Science
Title of on-farm trial:	Assessment of malted multi millet mix for improving nutritional status of children under 5 years of age
Year/Season:	2024/ Rabi
Farming situation:	Irrigated/Rainfed
Problem diagnosis:	No use of malted millet mix for feeding children
Thematic area:	Nutritional security
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 millets in the form of chapati/rice
T2 –Recommended Practice-	Use of malted multi millet mix @ 30g/day for 60 days
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIMR, Hyderabad
Characteristics of technology:	Malting of millets changes the lysine, tryptophan, threonine and methionine content. After malting, lysine and tryptophan increased from 3.5 to 4.0/100 and 1.3 to 1.5/100 g protein, respectively. And also the iron (27.1 and 55%) and soluble zinc (81 and 25%) contents

	increased
Name of Crop/Enterprises:	Malted multi millet mix
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Home Science
Title of on-farm trial:	Assessment of improved technique of collection of mahua flower (in green net)
Year/Season:	2024/ Summer
Farming situation:	Irrigated/Rainfed
Problem diagnosis:	Collection of mahua flower on ground surface
Thematic area:	Value addition
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-	Collection of mahua flower on ground surface
T2 –Recommended Practice-	Collection of mahua flower in net for quality improvement
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	OUAT, ORRISA
Characteristics of technology:	Dustless, original colour
Name of Crop/Enterprises:	(NTFS)-Mahua
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Home Science
Title of on-farm trial:	Assessment of improved technique of drying and storage of mahua flower for better quality and increased self life
Year/Season:	2024/ Summer
Farming situation:	Irrigated/Rainfed
Problem diagnosis:	Low price of mahua flower due to poor quality
Thematic area:	Value addition
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-	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
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	OUAT, ORRISA
Characteristics of technology:	Dustless, original colour
Name of Crop/Enterprises:	(NTFS)-Mahua
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 14

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Home Science
Title of on-farm trial:	Assessment of bio-fortified variety of Maize – JM 1014
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	High magnitude of malnutrition and low immunity among farm families
Thematic area:	Nutritional security
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 variety JM 216
T2 –Recommended Practice-	Use of bio-fortified variety- JM 1014
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur 2022
Characteristics of technology:	Voilet colour and Medium maturity
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 15

Name of Discipline (like Agronomy/Horticulture/	Ag. Extension

Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of Kisan Sarthi agri – information system in adoption of improved production technology of pulse crop
Year/Season:	2024/ Kharif
Farming situation:	Irrigated/Rainfed
Problem diagnosis:	Lack of knowledge about crop advisories
Thematic area:	ICT
No of trials:	80
No. of farmers involved	80
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers do not uses specific crop based advisories
T2 –Recommended Practice-	Kisan Sarthi agri – information system
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	ICT
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 16

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Ag. Extension
Title of on-farm trial:	Assessment of adoption of natural farming system in paddy cultivation
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Higher cost of cultivation due to chemical farming
Thematic area:	Natural farming
No of trials:	80
No. of farmers involved	80
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Chemical farming
T2 –Recommended Practice-	Various components of Natural farming
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	-

Characteristics of technology:	-
Name of Crop/Enterprises:	Natural farming
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 17

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 spineless cactus as fodder in dairy animals
Year/Season:	2024/ Summer
Farming situation:	Raifed
Problem diagnosis:	Lack of availability of green fodder in summer season
Thematic area:	Fodder 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-	Grazing in community grazing lands for 6-8 hours
T2 –Recommended Practice-	Stall Feeding of spineless cactus @ 5 kg/animal/day
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGFRI, Jhansi - 2017
Characteristics of technology:	Cactus cladodes are rich in minerals like Ca, Mg, Na, P and K and have moderate protein and fibre content. Cactus contains high percentage of water (85- 90 per cent) and hence when fed to livestock, the water requirement of animals is reduced by 40 to 50 per cent.
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 18

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 IGFRI Hybrid Napier 3 for round the year fodder in lactating animals
Year/Season:	2024/ Kharif
Farming situation:	Rainfed

Problem diagnosis:	Low Productivity of dairy animals due to unavailability of green fodder round the year
Thematic area:	Fodder 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-	Use of Wheat straw @ 8 kg/day/ Cattle
T2 –Recommended Practice-	Use of Wheat straw @ 8 kg/day/ Cattle + IGFRI Hybrid Napier 3 Green Fodder @ 15 kg/ Cattle/ Day
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGFRI, Jhansi 1984
Characteristics of technology:	Hybrid Napier is a perennial grass which can be retained in the field for 2-3 years. Compared to Napier grass, Hybrid Napier produces larger and softer leaves.
Name of Crop/Enterprises:	Cow
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 19

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 NIFS Poly Herbal Medication to control tick infestation in dairy animals
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Productivity of dairy animals affected due to tick infestation
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 medicine for tick infestation
T2 –Recommended Practice-	NIFS Poly Herbal Medicine (2.5 kg fresh leaves of neem kept in 4 liter lukewarm water + 1 kg fresh leaf of nirgundi in 2 liter lukewarm water
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal 2020
Characteristics of technology:	Effectively controls the tick in animals

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

Detailed Information about OFT: 20

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 yeast culture for its effect on fiber digestion and milk production in dairy buffaloes
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low milk yield due to indigestibility of feed due to lack of probiotic
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 Probiotics
T2 –Recommended Practice-	Probiotics @ 20g/day/animal
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal (2012)
Characteristics of technology:	-
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: 1

Title	Assessment of Kisan Sarthi agri – information system in adoption of improved production technology of pulse crop
Season & Year	Kharif/ Rabi & 2024
Problem identified	Lack of knowledge about crop advisories
Thematic Area	ICT
Farming situation	Irrigated/Rainfed
Name of Technology Intervention under study	Kisan Sarthi agri – information system
Farmers Practice	Farmers do not uses specific crop based advisories
No. of replication (Farmers)	80

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Extension OFT: 2

Title	Assessment of adoption of natural farming system in paddy cultivation
Season & Year	Kharif/ Rabi & 2024
Problem identified	Higher cost of cultivation due to chemical farming
Thematic Area	Natural farming
Farming situation	Rainfed
Name of Technology Intervention under study	Various components of Natural farming
Farmers Practice	Chemical farming
No. of replication (Farmers)	80

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: 01

Title of on-farm trial:	Assessment of malted multi millet mix for improving nutritional status of children under 5 years of age
Year/Season:	2024/Rabi
Problem diagnosis:	No use of malted millet mix for feeding children
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 millets in the form of chapati/rice
T2 –Recommended Practice-	Use of malted multi millet mix @ 30g/day for 60 days
Source of technology:	IIMR, Hyderabad
Characteristics of technology:	Malting of millets changes the lysine, tryptophan, threonine and methionine content. After malting, lysine and tryptophan increased from 3.5 to 4.0/100 and 1.3 to 1.5/100 g protein, respectively. And also the iron (27.1 and 55%) and soluble zinc (81 and 25%) contents increased
Name of Crop/Enterprises:	Malted multi millet mix
Farming situation:	Irrigated/Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Information about Home Science OFT: 02

Title of on-farm trial:	Assessment of improved technique of collection of mahua flower (in green net)
Year/Season:	2024/Summer
Problem diagnosis:	Low quality due to collection on ground
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-	Collection of mahua flower on ground
T2 –Recommended Practice-	Collection of mahua flower in net for quality improvement
Source of technology:	OUAT, ORRISA
Characteristics of technology:	Dustless, original colour
Name of Crop/Enterprises:	(NTFS)-Mahua
Farming situation:	Irrigated/Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Information about Home Science OFT: 03

Title of on-farm trial:	Assessment of improved technique of drying and storage of mahua flower for better quality and increased self life
Year/Season:	2024/Summer
Problem diagnosis:	Low price of mahua flower due to poor quality
Thematic area: (Focus area in DFI and	Value addition

nutri smart initiatives)	
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, ORRISA
Characteristics of technology:	Dustless, original colour
Name of Crop/Enterprises:	(NTFS)-Mahua
Farming situation:	Irrigated/Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Information about Home Science OFT: 04

Title of on-farm trial:	Assessment of bio-fortified variety of Maize – JM 1014
Year/Season:	2024/Kharif
Problem diagnosis:	High magnitude of malnutrition and low immunity 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-	Use of variety JM 216
T2 –Recommended Practice-	Use of bio-fortified variety- JM 1014
Source of technology:	JNKVV, Jabalpur 2022
Characteristics of technology:	Voilet colour and medium duration maturity
Name of Crop/Enterprises:	Maize
Farming situation:	Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. 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	Varietal Replacement	JK 137	Seed	Kharif 2024	2.0	10	No of panicle/m ² , Yield (q/ha), Net return and B:C ratio
2	Kutki	Varietal Replacement	JK 4	Seed	Kharif 2024	2.0	10	No of panicle/m ² , Yield (q/ha), Net return and B:C ratio
3	Soybean	Varietal Replacement	JS 20-98	Seed	Kharif 2024	2.0	05	No of branches/plant, No of pods/plant and No of grains/ pod, Yield (q/ha), Net return and B:C ratio
4	Wheat	INM	JW 3336	(19 : 19 : 19 NPK) water soluble fertilizer	Rabi 2024	2.0	05	No of panicle/m row length, No of spikes/plant, Yield (q/ha), Net return and B:C ratio
5	Mustard	INM	Giriraj	Sulphur@ 30kg/ha	Rabi 2024	2.0	05	No of branches/plant, No of siliquae/plant, No of grains/siliqua, Yield (q/ha), Net return and B:C ratio
6	Black rice	Nutritional Security	Chakhao/BJR 11	Seed	Kharif 2024	2.0	10	Yield, Nutritional value
7	Rice	Nutritional security	CR Dhan 10	Seed	Kharif 2024	2.0	10	Yield, Nutritional value
8	Vegetables	Nutritional security	Nutritional garden	Seed and seedlings	Round the year 2024	0.5	20	Per capita availability

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05		
2	Farmers Training	15		
3	Media coverage	06		
4	Training for extension functionaries	02		

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
Seed drill	Rice	Kharif 2024	05	2.0	Seed	Yield (q/ha)	Cost saving	Cost Saving
Ridge & Furrow	Pigeonpea	Kharif 2024	05	2.0	Seed	Yield (q/ha)	Cost saving	Cost Saving
Zero till machine	Wheat	Rabi 2024	05	2.0	-	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	Milk yield	Milk yield
Dairy	Berseem JB-9	05	05	Seed	Yield, Milk yield		

*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
Pulses	Save bag	20	20	Save bag	% infestation, shelf life, income	shelf life	income

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

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	Kharif 2024	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 2024	10	25	Yield
3	Mustard	Demonstration of variety RH 0479 of Mustard (ICM)	HYV, Seed treatment, Biofertilizer, Line sowing	Seed, Biofertilizer	Rabi 2024	10	25	Yield
4	Gram	Demonstration of variety JG-14 of Gram	Variety- JG 14	Seed, Biofertilizer	Rabi 2024	10	25	Yield

		with full package & practices under NFSM (ICM)						

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

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs	1	1							
Mobilization of social capital									
Entrepreneurial development of farmers/youths	1	1							
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										
July	F/FW	Weed management in major kharif crops	01							
June	F/FW	IFS for doubling farmers income	01							
June	F/FW	Seed production in major kharif crops	01							
October	F/FW	Seed production in major rabi crops	01							
June	F/FW	ICM in Pigeon pea	01							
June	F/FW	ICM in Sesame	01							
September	F/FW	ICM in Mustard	01							
September	F/FW	ICM in Chick pea	01							
Horticulture										
Livestock production										
April	F/FW	Dairy management	01							

May	F/FW	Feed management in dairy animals	01							
Home Science										
October	F/FW	Establishment of kitchen gardening	01							
October	F/FW	Vermi-compost production	01							
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
August	F/FW	Formation and management of SHGs	01							
September	F/FW	Entrepreneurship development among farmers and rural youth	01							
Soil Science										
July	F/FW	Soil fertility management under natural farming	01							
July	F/FW	Production technology of vermin-compost and other organic fertilizers	01							

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										
July	F/FW	Weed management in major kharif crops	01							
October	F/FW	Weed management in major rabi crops	01							
October	F/FW	Profitable cropping systems for DFI	01							
June	F/FW	Production technology of Jowar	01							
June	F/FW	Production technology of Groundnut	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	
June	F/FW	IFS for DFI	01							
October	F/FW	Water management in Wheat crop	01							
June	F/FW	Preparation technique of natural farming components for nutrient management	01							
October	F/FW	Preparation technique of natural farming components for plant protection	01							
Horticulture										
Livestock production										
June	F/FW	Care and management of milch animals in summer season	01							
October	F/FW	Care and management of milch animals in winter season	01							
July	F/FW	Rearing of dual purpose poultry breed	01							
November	F/FW	Poultry feed management	01							
November	F/FW	Production technology of Berseem	01							
August	F/FW	Prevention of major diseases in milch animals	01							
Home Science										
April	F/FW	Nutritional security through kitchen gardening	01							
May	F/FW	Roof gardening	01							
May	F/FW	Preparation of recipes from millet	01							
June	F/FW	Preparation of protein rich diet for farm women	01							
August	F/FW	Value addition of mahua	01							
August	F/FW	Value addition 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	
		millets								
July	F/FW	Marigold production	01							
May	F/FW	Nursery raising for income generation	01							
August	F/FW	Mushroom production for income generation	01							
September	F/FW	Use of women friendly equipments for drudgery reduction	01							
December	F/FW	Better women and child care practices	01							
Plant Protection										
August	F/FW	IPM in major kharif crops	01							
November	F/FW	IPM in major rabi crops	01							
August	F/FW	IDM in major kharif crops	01							
November	F/FW	IDM in major rabi crops	01							
Agriculture Extension (Capacity Building and Group Dynamics)										
June	F/FW	Formation and management of SHGs	01							
November	F/FW	Entrepreneurship development among rural youth	01							
Soil Science										
July	F/FW	Soil fertility management under natural farming	01							

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										
July	RY	Seed production	03							
March	RY	Vermicompost Production								
Horticulture										

Horticulture

[illegible]

Training Programme for Extension Functionaries:

[illegible]

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 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
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			
OTHERS (Specify)			

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	Marigold	Pusa narangi	20000

Bio-products

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

LIVESTOCK- Nil**Literature to be Developed/Published****KVK News Letter**

Date of start	Periodicity	Number of copies to be published
Jan 24	January to March 2024	500
Apr 24	April to June 2024	500
Jul 24	July to September 2024	500
Oct 24	October to December 2024	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: ...02.....(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	Dogargawa	Karkeli	25
2	Kohaka	Karkeli	30
3	Dhupkheda	Pali	85
4	Karaundi Tola	Manpur	75

1. No. of farm families selected per village : 20-50
2. No. of survey/PRA to be conducted: Yes

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:

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

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 2024	Trainings - 03	75
	Demonstration on Natural farming components in Wheat, Chick pea and Mustard	10/ 4.0 ha
	Awareness programme - 03	300
April- Jun 2024	Trainings - 03	75
	Awareness programme - 03	300
July-Sept. 2024	Training - 06	150
	Demonstration on Natural farming components in Paddy	10/4.0 ha
Oct. – Dec. 2024	Trainings - 03	75
	Awareness programme - 03	300

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 700 Sq m

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	