ANNUAL ACTION PLAN

NGO & ICAR KVKs

2024

ICAR-Agricultural Technology Application Research Institute,

Indian Council of Agricultural Research

Zone IX, Jabalpur, M.P.

Contents

ANNUAL ACTION PLAN 2024

KVK Anuppur

Year of sanction: 2017

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. S. K. Pandey	Sr. Scientist & Head	9755362640	headkvk@igntu.ac.in

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	Sr. Scientist & Head	Dr. S.K. Pandey	Sr. Scientist & Head	Agricultural Extension	Level 13A 152300	05/02/2018	2018	9755362640	headkvk@igntu.ac.in	
2	Subject Matter Specialist	Dr. Anita Thakur	SMS	Soil Science	Level 10 65000	10/01/2018	2018	9406955752	anitakvk@igntu.ac.in	
3	Subject Matter Specialist	Mr. Yogesh Kumar	SMS	Agro forestry	Level 10 65000	10/01/2018	2018	7898370746	yogeshkvk@igntu.ac.in	
4	Subject Matter Specialist	Dr. Anil Kurmi	SMS	Plant Protection	Level 10 65000	12/01/2018	2018	9425622616	anilkvk@igntu.ac.in	
5	Subject Matter Specialist	Mr. Sandeep Chouhan	SMS	Agricultural Extension	Level 10 65000	15/01/2018	2018	9691241215	chouhankvk@igntu.ac.in	
6	Subject Matter Specialist	Mr. Suneel Kumar Rathour	SMS	Multi Discipline	Level 10 65000	16/01/2018	2018	9685532161	rathourekvk@igntu.ac.in	
7	Subject Matter Specialist	Mr. Suryakant Nagre	SMS	Agronomy	Level 10 65000	18/01/2018	2018	9907768553	sknagrekvk@igntu.ac.in	
8	Programme Assistant	-	-	-	-	-	-	-	-	-
9	Computer Programmer/ Programme Assistant	-	-	-	-	-	-	-	-	-
10	Farm Manager	-	-	-	-	-	-	-	-	-
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Mr. Sandeep Kumar	Stenographer		Level 04 29600	28/03/2018	2018	8989168018	sandeep.kvk@igntu.ac.in	
13	Driver	Mr. Bharat Kumar Banjara	Driver		Level 03 25200	28/03/2018	2018	9753760617	bharat.banjara@igntu.ac.in	
14	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	Mr. Mohit Puri	Skilled Support staff		Level 01 20900	27/03/2018	2018	8131541797	mohit.puri@igntu.ac.in	
16	Supporting staff	Mr. Vibhor Chandra Gupta	Skilled Support staff		Level 01 20900	28/03/2018	2018	9907728692	vibhorkvk@igntu.ac.in	

1.3 Total land with KVK (in ha): 20

S. No.	Item	Area (ha)
1	Under Buildings	0
2	Under Demonstration Units	1.7
3	Under Crops	12
4	Orchard/Agro-forestry	0.8
5	Others (specify)	0
Total		**14.5**

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	Under construction	-	-	-	-	-
2	Farmers Hostel	ICAR	Under construction	-	-	-	-	-
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)	2018	509336.00		Working
Motor Cycle 2	-	-	-	-
Bolero(Jeep)	2019	701687.00	101254	Working
Other	2019	148499.00	-	Working

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Seed drill cum Fertilizer drill	2019	45000.00	Working
Rotavator	2019	116000.00	Working
Buffer Cultivator	2019	32000.00	Working
Double frame power cultivator	2019	31500.00	Working
Conoweeder	2019	13000.00	Working
Multi Crop Brush Cutter	2019	24999.00	Working

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

Sl. No.	Tentative Date
1	May 2024
2	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	Rainfed situation (Early season drought) Delay by 2 weeks (4th week of June), **soil type-** 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
2	AES – 2	Rainfed situation (Early season drought) Delay by 4 weeks (2nd week of July) **soil type-** 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram

3	AES – 3	Rainfed situation (Early season drought) Delay by 6 weeks (4th week of July) **soil type-** 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
4	AES – 4	Rainfed situation Early season drought (Normal onset) Normal onset followed by 15-20 days dry spell after sowing leading to poor germination/crop stands etc. **soil type-** 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
5	AES – 5	Rainfed situation Early season drought (Normal onset) At vegetative stage **soil type-** 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
6	AES – 6	Rainfed situation Mid-season drought (long dry spell) At flowering/ fruiting stage **soil type-** 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
7	AES – 7	Rainfed situation Terminal drought (Early withdrawal of monsoon) **soil type-** 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
8	AES – 8	**Irrigated situations** Delayed release of water in canals due to low rainfall **soil type-** 1. Deep to medium deep soils. Farming situations- Rice-Wheat, Rice-Chickpea.
9	AES – 9	**Irrigated situations** Limited release of water in canals due to low rainfall **soil type-** 1. Deep to medium deep soils. Farming situations- Rice-Wheat, Rice-Chickpea, and Maize-Wheat.
10	AES – 10	**Irrigated situations** Non release of water in canals under delayed onset of monsoon in catchments **soil type-** 1. Deep to medium deep soils. Farming situations- Rice-Wheat ,Rice-Chickpea
11	AES – 11	**Irrigated situations** Insufficient groundwater recharge due to low rainfall **soil type-** 1. Deep to medium deep soils. Farming situations- Rice-Wheat ,Rice-Chickpea
12	AES – 12	Unusual rains (untimely, unseasonal etc.) (for both Rainfed and Irrigated situations) Continuous high rainfall in a short span leading to water logging **soil type-** 1. Deep to medium deep soils. Farming situations-Rice, Pigeon pea, Maize, Minor millets and horticulture crops.

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Low land bunded, deep and medium deep black soils
2	AES - 2	Upland unbunded shallow black soils
3	AES – 3	Deep to medium deep soils

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
• low water demand crop easily grow	• lack of irrigation facilities	• Low investment and high profit by millets	• total depend on rain
Processing Preservation Packaging Branding Marketing	unavailability of water • Grazing • Mono cropping	• Dissemination of technology • PHM • Reduction of PH loses	grassing , pasturage, grazing, meadow,

AES-8 (name)

Strength	Weakness	Opportunities	Threats
• Irrigation facility available	• Imbalance use of fertilizers	• Cash crop can grow	• High insect and pest

Add AES if needed

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	450.3
Forest	236.7
Waste Land	8.7
Other than cultivated area	33.1
Cultivable waste and alkaline land	16.6
Pastures	15.1
Bushes	0.2
Current Fallow	17.7
Other Fallow	17
Agricultural Land	137.3
Area Sown	105.2
Kharif	159.1
Rabi	40.1
Zaid	0
Cropping Intensity	131

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	0.8
2	Well	1.5
3	Tube well	0.3
4	Ponds	0.2
5	Others	1.5

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Deep Black Soil	67.3% of total geographical area	669.5
2	Medium Deep Black Soil	18.3% of total geographical area	181
3	Shallow Black Soil	14% of total geographical area	142.2

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	Rice	109000	3100000	28.44
2	Maize	16000	320000	20
3	Niger	8000	30000	3.75
4	Pigeonpea (Tur)	14000	140000	10
5	Blackgram	8000	50000	6.25
6	Wheat	27000	530000	19.62
7	Mustard	9000	50000	5.55
8	Lentil	12000	60000	5
9	Linseed	5000	10000	2

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

Month /Year	Rainfall (mm)	Temperature (^{0}C)	
		Maximum	Minimum
Jan. 2023	00	22.4	11
Feb. 2023	00	27.77	13.33
Mar. 2023	31.1	33.33	18.33
Apr. 2023	48.7	37.77	23.33
May. 2023	71.4	40	26.66
Jun. 2023	223.8	35.35	26.66
July. 2023	268.3	30	24.44
Aug. 2023	327.5	30	24.44
Sept. 2023	355	30	23.33
Oct. 2023	39.9	30	19.44
Nov. 2023	8	27.22	14.44
Dec. 2023	7.3	25	11.11

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	243107	10628 MT.	195.7ltr
Buffalo	57161	33220 MT.	264 kg
Sheep			
Crossbred/ Indigenous	367	……. MT wool	……. kg
Goats	47781	358 MT	……. kg
Pigs *Crossbred/ Indigenous*	6581	---	---
Rabbits	175		
Poultry			
Hens	104130	31.23 Lakh eggs	100 eggs/ bird/yr
Turkey and others	883		
Category	**Area**	**Production**	**Productivity**
Fish	3085 (ha)	3085 Q/ month	12 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	Pushprajgarh	Pushprajgarh	Umargohan	Paddy, linseed, lentil, maize	Poor Nutrient Management, Poor waste management, Low productivity, Lack of improved verity, Forest fire, Over grazing in forest area which hamper regeneration of valuable timber specially Saal	INM, IPM, Varietal improvement, HOV
2	Pushprajgarh	Pushprajgarh	Ferrisemar	Paddy, linseed, lentil, maize	Poor Nutrient Management, Poor waste management, Low productivity, Lack of improved verity, Forest fire, Over grazing in forest area which hamper regeneration of	INM, IPM, Varietal improvement, HOV

					valuable timber specially Saal	
3	Pushprajgarh	Pushprajgarh	Nunghati	Paddy, linseed, lentil, maize	Poor Nutrient Management, Poor waste management, Low productivity, Lack of improved verity, Forest fire, Over grazing in forest area which hamper regeneration of valuable timber specially Saal	INM, IPM, Varietal improvement, HOV

Priority / Thrust areas

S. No.	Particulars
1.	Poor Nutrient Management
2.	Poor Waste Management
3.	Lack of awareness about Soil Testing
4.	Imbalance use of fertilizers
5.	Drudgery reduction
6.	Malnutrition
7.	Income generation
8.	Value addition
9.	IFS
10.	Natural farming
11.	IPM
12.	HOV

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
13	75	09	60

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
51	1170	351	22255

Seed Production (Qtl.)	Planting material (Nos.)
600	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	IPM	Tomato	Pod borer	Assessment of insecticides for management of pod borer in summer tomato	-	-	-	-	-
2	IPM	Tomato	Early & Late Blight	Assessment of fungicides for management of pod borer in summer tomato	-	-	-	-	-
3	IPM	Bottelgaurd	Fruit fly	Assessment of eco-friendly low cost technologies for management of fruit fly in cucurbits	-	-	-	-	-
4	IPM	Paddy	Paddy blast	-	Demonstration of management of rice blast	-	-	-	-
5	IPM	Tomato	Wilt	-	Demonstration of management of bacterial wilt of tomato	-	-	-	-
6	ITK	Tomato	Fruit borer	-	Demonstration of ITK based practices for the Management of fruit borer in tomato	-	-	-	-

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	0	0	0	0	3	0	0	0	0	**3**
TOTAL	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**3**

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 insecticides for management of pod borer in summer tomato	
Problem diagnosed	Heavy yield loss due to infestation of pod borer	
Farmers' Practices	No effort	
Details of technologies selected for assessment	T_1	Spray of Emamectin benzoate 5% @ 0.5 gm/li of water
	T_2	Spray of Chlorantraniliprole 18.5% @ 0.25 ml/li of water
	T_3	Rows can be added if necessary
Source of technology	NCIPM, New Delhi	
Plot size	1000 m^2	
No. of farmers	5	
Total cost	Rs 4500	
Critical input	Emamectin benzoate 5% & Chlorantraniliprole 18.5%	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- **yield (q/ ha)** (iii) Economic (iv) Social – **Employment generation**	Infestation %, Yield/ha	

OFT-2

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of fungicides for management of early and late blight in summer tomato	
Problem diagnosed	Heavy yield loss due to infestation of early and late blight	
Farmers' Practices	No effort	
Details of technologies selected for assessment	T_1	Spray of COC 50% @ 2.5 gm/li of water
	T_2	Spray of Tebuconazole 50% + Trifloxystrobin 25% WG @ 0.75 g/lit of water
	T_3	Rows can be added if necessary
Source of technology	NCIPM, New Delhi	
Plot size	1000 m^2	
No. of farmers	5	
Total cost	Rs 4500	
Critical input	COC 50% & Tebuconazole 50% + Trifloxystrobin 25% WG	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- **yield (q/ ha)** (vii) Economic (viii) Social – **Employment generation**	Infestation %, Yield/ha	

OFT-3

Crop / Enterprise	Cucurbits	
Title of on farm trial	Assessment of eco-friendly low cost technologies for management of fruit fly in cucurbits	
Problem diagnosed	Heavy yield loss due to infestation of fruit fly	
Farmers' Practices	No effort	
Details of technologies selected for assessment	T_1	Use of Bait Application Technique (BAT) 0.1% insecticide+10% jiggery @ 200 spot/ha.
	T_2	Use of Cue lure trap @ 25 trap/ha.
	T_3	Rows can be added if necessary
Source of technology	NCIPM, New Delhi	
Plot size	1000 m^2	
No. of farmers	5	
Total cost	Rs 2500	
Critical input	Fruit fly trap	

Performance indicators: (ix) Growth and Yield attributes (x) Technical- **yield (q/ ha)** (xi) Economic (xii) Social – **Employment generation**	Fruit fly traped/trap, Infestation %, Yield/ha

OFT -4

Crop / Enterprise	Tree	
Title of on farm trial	Assessment of safe collection method of mahua	
Problem diagnosed	Poor collection method	
Farmers' Practices	Traditional collection practices from surface	
Details of technologies selected for assessment	T_1	Traditional collection practices from surface
	T_2	Safe collection through Net/ Used saree
	T_3	-
Source of technology	Navsari Agriculture University, Navsari	
Plot size/ no of trees	10 trees	
No. of farmers	5	
Total cost	Rs. 4000/-	
Critical input	Net/ Used saree	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- **yield (q/ ha)** (xv) Economic (xvi) Social – **Employment generation**	Yield/tree and economics	

OFT -5

Enterprise	Nursery tray
Title of on-farm trial	Assessment of plug tray nursery rising in chilli cultivation
Problem diagnosed	Poor nursery management and utilization
Farming situation	Irrigated
Production system and thematic area	HOV
Farmers' practices	Traditional method
Details of technologies selected for assessment/refinement Treatments	T_1 Traditional method T_2 Plug tray
Source of technology	Prof. Jay Shankar Agriculture University, Hyderabad
No. of animals	Nil
No. of farmers	5
Critical input	Nursery tray
Cost of input	5000/-
Total cost	7500/-
Performance indicators Observation to be recorded **BMS** **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	GER, Mortality incidence (%)

OFT-6

Crop / Enterprise	Wheat crop residues (Kharif 2023)	
Title of on farm trial	Assessment of bio waste decomposer for decomposition of wheat crop residues	
Problem diagnosed	No use of bio-waste decomposer for residue decomposition, pollution while burning crop residue and soil health deterioration	
Farmers' Practices	No use of bio-waste decomposer for wheat crop residue decomposition	
Details of technologies selected	**T_1**	Crop residue

for assessment	**T_2**	Crop residue @ 500 ml Fungal base bio-waste decomposer
	T_3	Decomposition of crop residue through *Bacterial & Fungal base bio-waste* decomposer @ 500 ml for one tonne raw material
Source of technology	JNKVV, Jabalpur (2017)	
Plot size	**12x4= 48 sqft**	
No. of farmers	**5**	
Total cost	**Rs 8200/-**	
Critical input	Biodigester	
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- **yield (q/ ha)** (xix) Economic (xx)Social – **Employment generation**	Duration of decomposition (days), OC (%), Nutrient (NPK) content (%), nutrient cost of decomposed compost, additional cost in straw making, Net Return (Rs/ha), B:C ratio	

OFT-7

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of integrated nutrient management on yield of Rice under Rice-wheat cropping system	
Problem diagnosed	Poor Nutrient Management	
Farmers' Practices	Farmer Practice: DAP 30 kg/ha and Urea 50 kg/ha	
Details of technologies selected for assessment	T1	Local Check/ Farmer Practice: DAP 30 kg/ha and Urea 50 kg/ha
	T2	Fertilizer application based on STV – 50% RDF (100:60:30 + 25kg ZnSO4/ ha + Vermicompost 2t/ha +PSB @ 20g/kg seed
	T3	Fertilizer application based on STV – 75% RDF (100:60:30 + 25kg ZnSO4/ ha + Vermicompost 2t/ha +PSB @ 20g/kg seed
Source of technology	IISS 2017	
Plot size	0.5 acre	
No. of farmers	5	
Total cost	Rs 12000	
Critical input	Chemical fertilizer DAP,Urea,Potash,ZnSO4,PSB	
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- **yield (q/ ha)** (xxiii) Economic (xxiv) Social – **Employment generation**	No of Tillers/plant, Yield q/ha, B:C ratio, Feedback Farmers reaction	

OFT -8

Enterprise	Vermicompost
Title of on-farm trial	Assessment of income generation through vermicompost production
Problem diagnosed	Lower Income
Farming situation	Rainfed
Production system and thematic area	Income generation
Farmers' practices	Selling of Cow dung cake
Details of technologies selected for assessment/refinement Treatments	T1-Selling of Compost T2- Production and selling of Vermicompost
Source of technology	Jnkvv, Jabalpur 2017
No. of farmers	5
Critical input	Polyvermibed,earthworm,Trichoderma
Cost of input	20000
Total cost	25000
Performance indicators Observation to be recorded **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	**B: C ratio and production**

OFT-9

Crop / Enterprise	Mahua	
Title of on farm trial	Assessment of Mahua seed decorticator for Drudgery Reduction of Farm women	
Problem diagnosed	Decortications of mahua seed by traditional shelling method is time consuming , laborious, low keeping quality due to damage of mahua seed and causing high drudgery of Farm Women	
Farmers' Practices	Decortications of mahua seed manually	
Details of technologies selected for assessment	T_1	Decortications of mahua seed manually
	T_2	Mahua seed decorticator
	T_3	
Source of technology	OUAT, Bhuvneshwar (2011)	
Plot size	-	
No. of farmers	5	
Total cost	Rs. 10000/-	
Critical input	Mahua seed decorticator	
Performance indicators: (xxv) Growth and Yield attributes (xxvi) Technical- **yield (q/ ha)** (xxvii) Economic (xxviii) Social – **Employment generation**	**Output Kg/h , % reduction in drudgery,**	

OFT -10

Enterprise/crop	Jackfruit.
Title of on-farm trial	Assessment of Income generation through value addition of jackfruit.
Problem diagnosed	No value addition
Farming situation	Rainfed
Production system and thematic area	Value addition
Farmers' practices	No value addition
Details of technologies selected for assessment/refinement Treatments	T_1 No value addition T_2 value addition in jackfruit
Source of technology	CIAE, Bhopal, JNKVV Jabalpur
No. of animals	-
No. of farmers	5
Critical input	Packaging material, Preservative and Other Ingredient
Cost of input	Rs.10000
Total cost	Rs.10000
Performance indicators Observation to be recorded **BMS** **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	Total income in Rupees, B:C Ratio

OFT -11

Crop / Enterprise	Bio fortified paddy CR-310	
Title of on farm trial	Assessment of nutritional security through bio fortified paddy CR-310 (Protein rich) for farm family.	
Problem diagnosed	Malnutrition	
Farmers' Practices	Use of paddy variety MTU1010/IR 64	
Details of technologies selected for assessment	T_1	Use of paddy variety MTU1010/IR 64
	T_2	Bio fortified paddy CR-310
	T_3	
Source of technology	NRRI, Cuttack (2012)	
Plot size	1 acre	

No. of farmers	5
Total cost	Rs. 7000
Critical input	Paddy seed
Performance indicators: (xxix) Growth and Yield attributes (xxx) Technical- **yield (q/ ha)** (xxxi) Economic (xxxii) Social – **Employment generation**	Nutrient Intake, Biometric measurements

OFT -12

Title	Assessment of Market led Extension through Branding & Packaging of Rice
Season & Year	Kharif & 2024
Problem identified	Lack of Knowledge about Market led Extension Lack of Knowledge about Branding & Packaging
Thematic Area	Branding & Packaging of Rice
Farming situation	Rainfed
Name of Technology Intervention under study	Market led Extension
Farmers Practice	Farmer are selling Paddy in Local market
No. of replication (Farmers)	10

OFT -13

Title	Assessment of Market led Extension through Branding & Packaging of Honey
Season & Year	Kharif & 2024
Problem identified	Lack of Knowledge about Market led Extension Lack of Knowledge about Branding & Packaging
Thematic Area	Branding & Packaging of Honey
Farming situation	Rainfed
Name of Technology Intervention under study	Market led Extension
Farmers Practice	Farmer are selling Honey in Local market
No. of replication (Farmers)	10

Detailed Information about OFT:

OFT-1 (Assessment of insecticides for management of pod borer in summer tomato)

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 insecticides for management of pod borer in summer tomato
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Heavy yield loss due to infestation of pod borer
Thematic area:	IPM
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 effort
T2 –Recommended Practice-	Spray of Emamectin benzoate 5% @ 0.5 gm/li of water
T3- Recommended Practice-	Spray of Chlorantraniliprole 18.5% @ 0.25 ml/li of water
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCIPM, New Delhi
Characteristics of technology:	Highly effective
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2 (Assessment of fungicides for management of early and late blight in summer tomato)

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 fungicides for management of early and late blight in summer tomato
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Heavy yield loss due to infestation of early and late blight
Thematic area:	IPM
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 effort
T2 –Recommended Practice-	Spray of COC 50% @ 2.5 gm/li of water
T3- Recommended Practice-	Spray of Tebuconazole 50% + Trifloxystrobin 25% WG @ 0.75 g/lit of water
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCIPM, New Delhi
Characteristics of technology:	Highly effective
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3 (Assessment of eco-friendly low cost technologies for management of fruit fly in cucurbits)

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 eco-friendly low cost technologies for management of fruit fly in cucurbits
Year/Season:	2023-24

Farming situation:	Irrigated
Problem diagnosis:	Heavy yield loss due to infestation of fruit fly in cucurbits
Thematic area:	IPM
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 effort
T2 –Recommended Practice-	Use of Bait Application Technique (BAT) 0.1% insecticide+10% jiggery @ 200 spot/ha.
T3- Recommended Practice-	Use of Cue lure trap @ 25 trap/ha.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCIPM, New Delhi
Characteristics of technology:	Low cost, eco-friendly, Highly effective
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4 (Assessment of safe collection method of Mahua)

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 safe collection method of mahua
Year/Season:	Rabi-2024
Farming situation:	Rainfed
Problem diagnosis:	Poor collection method
Thematic area:	Resource conservation technology
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement: Assessment	
T1 – Farmers Practice-	Traditional collection practices from surface
T2 –Recommended Practice-	Safe collection through Net/ Used saree
T3- Recommended Practice-	-
Date of sowing:	20 March
Date of harvesting:	5 May
Source of technology:	Navsari Agriculture University, Navsari
Characteristics of technology:	Good Quality of flower
Name of Crop/Enterprises:	Mahua tree
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5 (Assessment of plug tray nursery rising in chilli cultivation)

Title of on-farm trial:	Assessment of plug tray nursery rising in chilli cultivation
Year/Season:	2024

Farming situation:	Irrigated
Problem diagnosis:	Poor nursery management and utilization
Thematic area:	HOV
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement: Assessment	
T1 – Farmers Practice-	Traditional method
T2 –Recommended Practice-	Plug tray
T3- Recommended Practice-	-
Date of sowing:	20 September
Date of harvesting:	2 November
Source of technology:	Prof. Jay Shankar Agriculture University, Hyderabad
Characteristics of technology:	Good germination, Healthy seedlings.
Name of Crop/Enterprises:	Nursery Tray
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6 (Assessment of bio waste decomposer for decomposition of wheat crop residues)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of bio waste decomposer for decomposition of wheat crop residues
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	No use of bio-waste decomposer for residue decomposition, pollution while burning crop residue and soil health deterioration
Thematic area:	Soil Infertility 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-	Crop residue straw
T2 –Recommended Practice-	Crop residue @ 500 ml Fungal base bio-waste decomposer
T3- Recommended Practice-	Decomposition of crop residue through Bacterial & Fungal base bio-waste decomposer @ 500 ml for one tonne raw material
Date of sowing:	15.07.2024
Date of harvesting:	20.10.2024
Source of technology:	JNKVV, Jabalpur (2017)
Characteristics of technology:	Low input cost technology
Name of Crop/Enterprises:	compost
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7 (Assessment of integrated nutrient management on yield of Rice under Rice-Chickpea cropping system)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of integrated nutrient management on yield of Rice under Rice-Chickpea cropping system
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	
Thematic area:	Integrated Nutrient Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Local Check/ Farmer Practice: DAP 30 kg/ha and Urea 50 kg/ha
T2 –Recommended Practice-	Fertilizer application based on STV – 50% RDF (100:60:30 + 25kg ZnSO4/ ha + Vermicompost 2t/ha +PSB @ 20g/kg seed
T3- Recommended Practice-	Fertilizer application based on STV – 75% RDF (100:60:30 + 25kg ZnSO4/ ha + Vermicompost 2t/ha +PSB @ 20g/kg seed
Date of sowing:	15.07.2024
Date of harvesting:	20.11.2024
Source of technology:	JNKVV, Jabalpur (2017)
Characteristics of technology:	Low input cost technology
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-8 (Assessment of income generation through vermicompost production)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of income generation through vermicompost production
Year/Season:	2024/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Poor income
Thematic area:	Income genration
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	**Assessment**
T1 – Farmers Practice-	Selling of Compost
T2 –Recommended Practice-	Production and selling of Vermicompost
Date of sowing:	15.10.2024

Date of harvesting:	10.01.2025
Source of technology:	JNKVV, Jabalpur (2017)
Characteristics of technology:	Low input cost technology
Name of Crop/Enterprises:	vermicompost
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

OFT:9

Title	Assessment of Market led Extension through Branding & Packaging of Rice
Season & Year	Kharif & 2024
Problem identified	Lack of Knowledge about Market led Extension Lack of Knowledge about Branding & Packaging
Thematic Area	Branding & Packaging of Rice
Farming situation	Rainfed
Name of Technology Intervention under study	Market led Extension
Farmers Practice	Farmer are selling Paddy in Local market
No. of replication (Farmers)	10

Results / findings

Performance indicators/ parameters	**Unit/ details**
Behaviour Change	%
Knowledge Change	%
Income Enhancement	%

OFT:10

Title	**Assessment of Market led Extension through Branding & Packaging of Honey**
Season & Year	Kharif & 2024
Problem identified	Lack of Knowledge about Market led Extension Lack of Knowledge about Branding & Packaging
Thematic Area	Branding & Packaging of Honey
Farming situation	Rainfed
Name of Technology Intervention under study	Market led Extension
Farmers Practice	Farmer are selling Honey in Local market
No. of replication (Farmers)	10

Results / findings

Performance indicators/ parameters	**Unit/ details**
Behaviour Change	%
Knowledge Change	%
Income Enhancement	%

Information about Home Science OFT:

OFT- 11 (Assessment of Mahua seed decorticator for Drudgery Reduction of Farm women)

Title of on-farm trial:	Assessment of Mahua seed decorticator for Drudgery Reduction of Farm women
Year/Season:	Rabi 2024
Problem diagnosis:	Decortications of mahua seed by traditional shelling method is time consuming , laborious, low keeping quality due to damage of mahua seed and causing high drudgery of Farm Women

Thematic area: (Focus area in DFI and nutri smart initiatives)	Drudgery Reduction
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment: Mahua seed decorticator	
T1 – Farmers Practice-	Decortications of mahua seed manually
T2 –Recommended Practice-	Mahua seed decorticator
Source of technology:	OUAT, Bhuvneshwar (2011)
Characteristics of technology:	Mahua seed decorticator
Name of Crop/Enterprises:	Mahua
Farming situation:	Rainfed
Date of sowing:	May
Date of harvesting:	June
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 12 (Assessment of Income generation through value addition of jackfruit.)

Title of on-farm trial:	Assessment of Income generation through value addition of jackfruit.
Year/Season:	Rabi 2024
Problem diagnosis:	No value addition
Thematic area: (Focus area in DFI and nutri smart initiatives)	value addition
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment: value addition	
T1 – Farmers Practice-	No value addition
T2 –Recommended Practice-	value addition in jackfruit
Source of technology:	CIAE, Bhopal & JNKVV, Jabalpur
Characteristics of technology:	value addition
Name of Crop/Enterprises:	jackfruit
Farming situation:	Rainfed
Date of sowing:	March-June
Date of harvesting:	June
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

OFT- 13 (Assessment of nutritional security through bio fortified paddy CR-310 (Protein rich) for farm family.)

Title of on-farm trial:	Assessment of nutritional security through bio fortified paddy CR-310 (Protein rich) for farm family.
Year/Season:	Kharif 2024
Problem diagnosis:	Malnutrition
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: Paddy CR-310	
T1 – Farmers Practice-	Use of paddy variety MTU1010/IR 64
T2 –Recommended Practice-	Bio fortified paddy CR-310
Source of technology:	NRRI, Cuttack (2012)
Characteristics of technology:	Bio fortified paddy CR-310
Name of Crop/Enterprises:	Paddy
Farming situation:	Rainfed
Date of sowing:	July
Date of harvesting:	November
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/ demo	Parameters identified for performance evaluation
1	Wheat	Varietal Replacement	Wheat variety – HI 8759 (Poosa Tejas)	Seed & Seed Treatment	Rabi 2024-25	4	10	No. of effective tiller/m,2, No. of grain per spike, 1000 seed weight, Yield/ha, B:C Ratio
2	Paddy	IPM	Demonstration of management of rice blast	Propicanazole 25 EC	2023-24	2	5	Infestation % Yield/ha
3	Tomato	IPM	Demonstration of management of bacterial wilt of tomato	Streptocycline 100 ppm + Copperoxichloride	2023-24	2	5	Infestation % Yield/ha
4	Tomato	ITK	Demonstration of ITK based practices for the Management of fruit borer in tomato	-	2023-24	2	5	Infestation % Yield/ha
5	Black gram-wheat + Papaya intercropping	AGF	Demonstration of income generation through agro-horti farming	Papaya plant	Kharif 2024	1	5	Yield & Fruit/pant
6	Wheat	INM	Demonstrations of Bio fertilizer (*Azatobacter, PSB)* with recommended dose of fertilizer in wheat	Chemical fertilizer(Urea,DAP, Potash, ZnSo4) and biofertilizer	Rabi 2024	1	5	Yield q/ha B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	9	Jan to December	225
2	Farmers Training	9	Jan to December	60
3	Media coverage	10	Jan to December	Mass
4	Training for extension functionaries	0	0	0

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
compost	compost	5	5 unit	Bio digester	B:C ratio and production q/ha	5	5
Wheat	DBW-187	10	10	Seed	Nutrient Intake, Biometric measurements	10	-
Sweet corn	Sugar 75	10	10	Seed	Production per unit, Benefit-Cost Ratio	10	-

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	-	-	-
2	Farmers Training	-	-	-
3	Media coverage	-	-	-
4	Training for extension functionaries	-	-	-

Training (Including the sponsored and FLD training programmes):

A) ON Campus

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

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female	Total	
Soil fertility management	-	-	-	-	-	-		-	-	
Soil and Water Conservation	-	-	-	-	-	-		-	-	
Integrated Nutrient Management	-	-	-	-	-	-		-	-	
Production and use of organic inputs	-	-	-	-	-	-		-	-	
Management of Problematic soils	-	-	-	-	-	-		-	-	
Micro nutrient deficiency in crops	-	-	-	-	-	-		-	-	
Nutrient Use Efficiency	-	-	-	-	-	-		-	-	
Soil and Water Testing	-	-	-	-	-	-		-	-	
Total										
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	1	1	0	0		0	10	15		25
Design and development of low/minimum cost diet	-	-	-	-		-	-	-		-
Designing and development for high nutrient efficiency diet	-	-	-	-		-	-	-		-
Minimization of nutrient loss in processing	-	-	-	-		-	-	-		-
Gender mainstreaming through SHGs	-	-	-	-		-	-	-		-
Value addition										
Income generation activities for empowerment of rural Women	1	1	0	0		0	10	15		25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Location specific drudgery reduction technologies	-	-	-	-		-	-		-		-
Women and child care	-	-	-	-		-	-		-		-
Total	**2**	**2**	**0**	**0**		**0**	**20**		**30**		**50**
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	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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)	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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

Conservation Technologies									
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
II Horticulture									
a) Vegetable Crops	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-
Soil fertility management	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	1	1	0	0	0	10	15	25	25
Production and use of organic inputs	1	1	0	0	0	10	15	25	25
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-

Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-	-
Integrated Pest Management	3	1	0	0	0	15	0	15	**15**
Integrated Disease Management	-	-	-	-	-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	-
Production of bio control agents	-	-	-	-	-	-	-	-	-

and bio pesticides									
VIII Fisheries	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
IX Production of Inputs at site	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
X Capacity Building and Group Dynamics	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Leadership development	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Group dynamics	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Formation and Management of SHGs	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Mobilization of social capital	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Entrepreneurial development of farmers/youths	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
WTO and IPR issues	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
XI Agro-forestry	1	1	0	0	0	5	0	5	5
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										
November	F & FW	Introduction of new tech.- Production technology of Linseed	**1**	**0**	**0**	**0**	**20**	**5**	**25**	**25**
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
June	F & FW	Nutritional kitchen Garden use and importance	1	0	0	0	10	15	25	**25**
November	F & FW	Importance of value addition in wheat	1	1	1	1	15	10	25	**25**
Plant Protection										
February	F/FW	Insects and diseases managemnt in summer tomato	1	5	5	10	10	5	15	**25**
April	F/FW	Preparation of jeevamrut	1	5	5	10	10	5	15	**25**
June	F/FW	Importance of Bio-agents in soil diseases management in kharif crops	1	5	5	10	10	5	15	**25**
August	F/FW	Integrated diseases management in rice	1	5	5	10	10	5	15	**25**
October	F/FW	Importance of Bio-agents in soil diseases management in Rabi crops	1	5	5	10	10	5	15	**25**
December	F/FW	IPM in pea	1	5	5	10	10	5	15	**25**
Agriculture Extension (Capacity Building and Group Dynamics)										
February	F/FW	Role of SHG in Agriculture development	1	-	-	-	20	5	25	**25**
March	F/FW	Branding & Packaging in	1	-	-	-	20	5	25	**25**

		Agriculture								
August	F/FW	Group approach- Role of Group Approach in Agriculture	1	10	5	15	10	-	10	**25**
September	F/FW	ICT- Role of Electronic Media in Agriculture	1	10	5	15	10	-	10	**25**
October	F/FW	MLE- Role of Market Led Extension in Agriculture	1	-	-	-	20	5	25	**25**
Soil Science										
	F/FW	INM- Method of vermicomposting & their benefits	1	0	0	0	15	10	25	**25**
	F/FW	INM- Making of compost through the biodigester	1	0	0	0	10	15	25	**25**
	F/FW	INM- Making of Vermicompost and their benefits	1	0	0	0	12	13	25	**25**
	F/FW	SFM- Soil testing and their importance in agriculture	1	0	0	0	13	12	25	**25**
	F/FW	SFM- Importance of Soil Health	1	0	0	0	10	15	25	**25**
	F/FW	WM- Rain water harvesting	1	0	0	0	15	10	25	**25**
Agroforestry										
	F& FW	Nursery managements	1	5	5	10	10	5	15	**25**
	F& FW	Integrated Farming Systems	1	5	5	10	10	5	15	**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										
December	F & FW	Introduction of new tech.- Production technology of Wheat	**1**	**0**	**0**	**0**	**20**	**5**	**25**	**25**
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
January	F & FW	Cultivation of vegetables and its nutritional	1	0	0	0	10	15	25	**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	
		importance								
March	F & FW	Importance and Use of agricultural equipment's for drudgery reduction	1	1	1	1	15	10	25	**25**
February	F & FW	Importance of value addition in tomato	1	0	0	0	10	15	25	**25**
October	F & FW	Importance of value addition in aonla	1	1	1	1	15	10	25	**25**
May	F & FW	Importance of value addition	1	0	0	0	10	15	25	**25**
September	F & FW	Production& value addition in sweet corn	1	1	1	1	15	10	25	**25**
Plant Protection										
January	F/FW	Production technology of diseases free seedlings of tomato	1	5	5	10	10	5	15	**25**
March	F/FW	Importance of deep summer ploughing in insects and diseases management	1	5	5	10	10	5	15	**25**
May	F/FW	Preparation of Beejamrut	1	5	5	10	10	5	15	**25**
July	F/FW	Integrated insects management in rice	1	5	5	10	10	5	15	**25**
September	F/FW	IPM in pigeonpea	1	5	5	10	10	5	15	**25**
November	F/FW	IPM in chickpea	1	5	5	10	10	5	15	**25**
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
	F/FW	SFM-Importance of bio digester for making of compost	1	0	0	0	10	15	25	**25**
	F/FW	SFM- Importance of vermicompost in Agriculture	1	0	0	0	12	13	25	**25**
Agroforestry										
	F& FW	Eucalyptus based agroforestry	1	5	5	10	10	5	15	**25**
	F& FW	Bamboo based agroforestry	1	5	5	10	10	5	15	**25**
	F& FW	Pear based agroforestry	1	5	5	10	10	5	15	**25**
	F& FW	by product of forest produce	1	5	5	10	10	5	15	**25**
	F& FW	Objectives and benefits of agroforestry	1	5	5	10	10	5	15	**25**
	F& FW	Papaya based inter cropping system	1	5	5	10	10	5	15	**25**

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
-	-	-	-	-	-	-	-	-	-	-
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
April-May	RY	**Importance of value addition in jackfruit**	3	0	0	0	5	5	10	**10**
Plant Protection										
June	RY	Production technology of lac	5	3	2	5	5	5	10	**15**
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
	Rural youth	Vermicomposting & their benefits	3	0	0	0	10	0	10	**10**
Agroforestry	Rural Youth	Plant production technology	3	2	0	2	4	4	8	**10**

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
-	-	-	-	-	-	-	-	-	-	-
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
August	IS	Mushroom production technology and its Nutritional importance	1	0	2	2	5	3	8	**10**
Plant Protection										
October	IS	IPM	2	8	2	10	5	5	10	**20**
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
	Extension personnel	New model for Integrated farming system (IS)	1	5	0	5	10	0	10	**15**
Agroforestry	Extension Functionaries	Land utilization through fast growing tree species on bund	1	10	5	15	0	0	0	**15**

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	11	175	97	272	13	0	13	188	97	285
Kisan Mela	2	610	110	620	15	2	17	625	112	737

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Kisan Ghosthi	8	210	60	270	6	0	6	216	60	276
Exhibition	5	120	30	150	0	0	0	120	30	150
Film Show	20	800	200	1000	0	0	0	800	200	1000
Method Demonstrations	8	115	45	160	0	0	0	115	45	160
Farmers Seminar	2	50	10	60	0	0	0	50	10	60
Workshop	2	50	10	60	0	0	0	50	10	60
Group meetings	15	150	70	220	0	0	0	150	70	220
Lectures delivered as resource persons	25	630	320	950	61	13	74	691	333	1024
Newspaper coverage	52	30	20	50	0	0	0	30	20	50
Radio talks	10	-	-	-	-	-	-	-	-	-
TV talks	8	-	-	-	-	-	-	-	-	-
Popular articles	24	1100	550	1650	10	2	12	1110	552	1662
Extension Literature	10	2300	800	3100	50	12	62	2350	812	3162
Advisory Services	36	11666	0	11666	0	0	0	11666	0	11666
Scientific visit to farmers field	52	94	19	113	5	1	6	97	22	119
Farmers visit to KVK	12	410	60	470	5	0	5	415	60	475
Diagnostic visits	16	65	15	80	10	0	10	75	15	90
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	2	50	10	60	0	0	0	50	10	60
Soil health Camp	2	27	23	50	0	0	0	27	23	50
Animal Health Camp	2	45	5	50	10	0	10	55	5	60
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	2	40	10	50	0	0	0	40	10	50
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)	12	220	135	355	18	11	29	238	146	384
Others (pl. specify) Swachhta Hi Seva	13	240	200	440	12	3	15	252	203	455
Total	**351**	**19197**	**2799**	**21896**	**215**	**44**	**259**	**19412**	**2843**	**22255**

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
	Paddy	IR 64 DRT 1	300
	Wheat	JW 3288	200
OILSEEDS			
	Soybean	RVS 2001-4	50
	Linseed	JLS 79	50
PULSES	-	-	-
	-	-	-
VEGETABLES	-	-	-
	-	-	-

	-	-	-
	-	-	-
FLOWER CROPS	-	-	-
	-	-	-
OTHERS (Specify)	-	-	-
	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-	-	-
	-	-	-
SPICES	-	-	-
	-	-	-
	-	-	-
VEGETABLES	Tomato	Arka Samrat	5000
	-	-	-
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
Jan-March 2024	Quarterly	1000
April-June 2024	Quarterly	1000
July-September 2024	Quarterly	1000
October-December 2024	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	PRA, Field Visit
2	Rural Youth	PRA, Field Visit
3	In-service personnel	PRA, Field Visit
4	methodology for identifying OFTs/FLDs	PRA, Field Visit
5	Matrix ranking	PRA, Field Visit

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	Umargogan	Pushprajgarh	10
2	Nunghati	Pushprajgarh	15
3	Farrisemar	Pushprajgarh	12

1. No. of farm families selected per village : **12**
2. No. of survey/PRA to be conducted: **20**

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:2019

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mini Soil Testing Kit	1	working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	100	100	2	0
Water Samples	Nil	Nil	Nil	Nil
Total	**100**	**100**	**2**	**0**

LINKAGES
Functional linkage with different organizations

Name of organization	Nature of linkage
Dept. of Agriculture & Farmer welfare	Convergence programme
Dept. of horticulture	Convergence programme
Dept. of fisheries	Convergence programme
Dept. of woman child development	Convergence programme
Dept. of Animal husbandry	Convergence programme

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

Name of Programme	Nature of linkage
Training Programme	**Technical Support**
Demonstration	**Technical Support**
Extension Activities	**Technical Support**

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Nil	**Nil**

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Awareness programme and training	50
February	Awareness programme and training	50
March	Awareness programme and training	50
April	Awareness programme and training	50
May	Awareness programme and training	50
June	Awareness programme and training	50
July	Awareness programme and training	50
August	Awareness programme and training	50
September	Awareness programme and training	50
October	Awareness programme and training	50

Planning for Crop Cafeteria
Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	JR 81, JR 206, IR 64 DRT 1, MTU 1010, Danteshwari, Sahbhagi, Jeera Shankar, Chinnor, PS -1, Pusa Basmati 1121,	Varietal + Seed Treatment + Line Sowing + Nutrient Management	225
Soybean	Kharif	JS 2069, JS 2098, JS 2034, JS 9560, JS 20-		225

		116, RVS 2001-4, NRC - 128, NRC 130, NRC 136, NRC 138 NRC 142		
Urd	Kharif	Indira Urad Pratham, Mukundra Urad 2, T U 94-2, Punt U 30, IPU 2-43		225
Moong	Kharif	PDM 139, Virat, Hum 1, Hum 2, Hum 12, Hum 16,		225
Maize	Kharif	JM 218, JM 216, JM 12, Jawahar Pop corn 1, Pusa Maize 1		225
Kodo	Kharif	CG -2, JK 98, JK 48, JK 137, Indira Kodo 1		225
Kutki	Kharif	JK -4, JK 36, BL 4, GV -2		225
Niger	Kharif	JNC 6, JNC 9, JNC 28, JNC 30, Birsa Niger 2, Birsa Niger 3		225
Wheat	Rabi	HI 1544, HI 1605, HI 1634, HI 1636, HI 1650, HI 1655, JW 3211, HI 8830, HD 4728, HI 8826, HI 8826, H 8737, HI 8759, JW 3288 JW 3173, HI 8823		225
Chickpea	Rabi	JG 12, JG 14, JG 16, JG 24, JG 36, JG 315, Indira Chana 1, RVG 202, RVG 203, RVG 204		225
Fieldpea	Rabi	Aadarsh, Aman, Ambika, IPFD 12-2, Indira Matar, KN 5, KCMR 400, JP 885		225
Lentil	Rabi	RL 1, RL 8, RL 9, RL 315, Kota 2		225
Linseed	Rabi	RLC 133, RLC 79, RLC 92, RLC 143, RLC 148, RLC 161		225
Mustard	Rabi	PM 31, Giriraj, RH 725, RH 759, Pusa Mustard 26, RH 761		225
Safflower	Rabi	CG-1, Amigiri, PBNS-12, NATI 57, ISF 764		225

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Lac production unit	Lac cultivation of semilata plant	2000	-
Vermicompost unit	Vermicompost and Earthworm	360S(qm)	60q
Compost unit	compost through bio digester	150	30
Poshan vatika	All vegetable	150	10000/-
Green House	Plant Production	1000	5000 plant

ANNUAL ACTION PLAN 2024

KVK Bhopal

Year of sanction:30.03.1978

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	**Mobile**	**Email**
Dr. Ranjay Kumar Singh Principal Scientist & Acting Head	0755-2521148	7726953529	rksinghiinrg@gmail.com

1.2 Staff Position on (31st Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Principal Scientist & Head 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. Ranjay Kumar Singh	PS & Acting Head	Land & Water Management Engg.	Pay Scale: 1,44,200-2,18,200 Basic pay = 1,77,400/-Level – 14	11.12.2001	2023	7726953529	rksinghiinrg@gmail.com	
2	Programme Coordinator	Dr. Deepak Singh	PS & Head	Plant Pathology	Pay Scale: 1,44,200-2,18,200 Basic pay = 1,58,000/-Level – 14	11.01.2021	11.01.2021	7005606563	deepaksingh_pp@yahoo.com	
3	Subject Matter Specialist									
4	Subject Matter Specialist									
5	Subject Matter Specialist									
6	Subject Matter Specialist									
7	Subject Matter Specialist									
8	Subject Matter Specialist									
9	Programme Assistant									
10	Computer Programmer/ Programme Assistant									

11	Farm Manager	Medini Pratap Singh	Assistant Chief Technical Officer	Genetics and Plant Breeding	Basic Pay =71,700/- Level- 11	05.11.2022	2022	9411123057	Medni15@gmail.com Medni.singh@icar.gov.in	
12	Assistant									
13	Jr. Stenographer / Comp. Operator									
14	Driver									
15	Driver									
16	Supporting staff									
	Supporting staff									

1.3 Total land with KVK (in ha):2.4

S. No.	Item	Area (ha)
1	Under Buildings	0.075
2	Under Demonstration Units	0.10
3	Under Crops	0.40
4	Orchard/Agro-forestry	2.40
5	Others (specify)	
Total		**2.975**

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	Merged with CIAE						
2	Farmers Hostel	Merged with CIAE						
3	Staff Quarters (6)	Merged with CIAE						
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 wheeler	2010		17641	Running
Bolero(Jeep)	Nil	Nil		
Other (Pl. specify)			Nil	Nil

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Xerox Photocopier	2017	64995/-	Running
Multimedia Projector	2017	98500/-	Running
Laptop	2017	34000/-	Running
Color Printer	2022	24963/-	Running

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

Sl. No.	Tentative Date
1	15.06.2024
2	04.12.2024

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	Wheat, Gram, - Soybean, Paddy
2	AES – 2	Wheat, Gram, - Soybean, Paddy
3	AES – 3	Wheat, Gram, - Soybean, Paddy

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Vindhyan Plateau	Undulating topography with hot sub-humid climate
2	AES - 2	
3	AES – 3	

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 ha
Total Geographical area	277880
Forest	44106
Waste Land	12124
Other than cultivated area	200537
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	5013
2	Well	28728
3	Tube well	
4	Ponds	
5	Others	30904

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Medium to Deep Vertisols	Clayey Texture and Neutral pH Poor Drainage Porosity (7%) Poor in available N, Medium P & rich in K content	2.14 lakh

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 (Q)	Productivity (Q /ha)
1	Soybean	85.20	86	1005
2	Paddy	18.95	46	3925
3	Pigeon pea	7.25	8	1275
4	Maize	12	48	3850
5	Wheat	87	272	3215
6	Gram	34	42	1465

7	Lentil	4.3	5.4	1275
8	Vegetables	6.5	125	210.0

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

Month /Year	Rainfall (m.m.)	Temperature (^{0} C)	
		Maximum	Minimum
Jan, 2023	27.7	9.1	23.0
Feb, 2023	0	10.2	29.1
Mar, 2023	54.5	16.7	31.4
Apr, 2023	27.4	22.0	35.5
May, 2023	65.8	25.1	37.8
Jun, 2023	156	26.1	35.8
July, 2023	331.3	25.0	31.6
Aug., 2023	132.1	23.4	30.3
Sept., 2023	373.6	23.9	31.0
Oct. 2023	0	19.3	33.1
Nov. 2023	12	13.9	29.4
Dec. 2023	33.6	11.7	25.6

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

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred/ Indigenous	24149	……. MT.	…… kg
Buffalo	94055	……. MT.	……. kg
Sheep			
Crossbred/ Indigenous	65	…… MT wool	……. kg
Goats	39155	……. MT	……. kg
Pigs *Crossbred/ Indigenous*	1226	---	---
Rabbits	210		
Poultry			
Hens		……. Lakh eggs	…… eggs/ bird/yr
Turkey and others	990653		
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	Berasia	Berasia	Sukaliya	Wheat, Gram,Soybean, Paddy, Maize		
2	Hujur	Phanda	Kacchi Barkheda	Wheat, Gram,Soybean, Paddy, Maize		

3	Hujur	Phanda	Gol Khedi	Wheat, Gram,Soybean, Paddy, Maize		
4	Hujur	Phanda	Bhairo Pura	Wheat, Gram,Soybean, Paddy, Maize		
5	Hujur	Phanda	Binapur	Wheat, Gram,Soybean, Paddy, Maize		
6	Hujur	Phanda	Kalyanpura	Wheat, Gram,Soybean, Paddy, Maize, Tomato		
7	Berasia	Berasia	Raipur	Wheat, Gram,Soybean, Paddy, Maize, Tomato		

Priority / Thrust areas

S. No.	Particulars	
1.	1. Farm Mechanization	5. Post-harvest technology and value addition
	2. Resource Conservation	6. Crop Diversification
	3. IPM & IPNM	7. Skill Development
	4. Entrepreneurship Development	8. Food and nutritional security

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 (approx.)
04	16	05	40

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
02	50	02	100

Seed Production (Q.)	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 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**
Farm Machinery	Wheat and Paddy	Soybean	Gram	--	Tomato, Onion, Brinjal, Okra, Capcimum	Mango, Guava	--	--	Turmeric	12
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								

OFT –Nil

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	-
8	Source of technology	-
9	No. of animals	-
10	No. of farmers	-
11	Critical input	-
12	Cost of input	-
13	Total cost	-
14	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	-

Detailed Information about OFT: Nil

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

Information about Extension OFT: Nil

Title	-
Season & Year	-
Problem identified	-
Thematic Area	-
Farming situation	-
Name of Technology Intervention under study	-

Farmers Practice	-
No. of replication (Farmers)	-

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: Nil

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

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Wheat	Farm Machinery	Herbicide strip applicator-cum-planter	Herbicide and Seed	Rabi-2023	05 ha	10	
2	Soybean	Farm Machinery	ICAR-CIAE Seed Cum Fertidrill with two stage fertilizer application system	Seed and Fertilizer	Kharif- 2024	10 ha	10	
3	Maize and Soybean	Farm Machinery	Mechanical Inter and Intra Row Weeder for Wide Spaced Field Crops	-	Kharif- 2024	10 ha	10	
4	Garlic	Farm Machinery	FLD-4:Tractor drawn eight row garlic clove dibbler	Seed	Rabi-2024	02 ha	02	
5	Green Gram/Black Gram	Farm Machinery	ICAR CIAE Tractor drawn 9- row drum type pneumatic planter	Seed	Zyad 2024	10 ha	10	

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	01	Nov-Dec	50
2	Farmers Training	02	May-June and Nov-Dec	50
3	Media coverage	01	Sept-Oct	
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
Potato Planter, Potato Digger, Groundnut Decorticator, Power operated Grain cleanr Mulcher	Wheat, Soybean, Groundnut, Potato	Kharif and Rabi 2024	10	10	Farm Machinery			

**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	-	-	-	-	-	-	-	-

Extension and Training activities under CFLDs Oilseed and Pulses

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

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	02	1-2	30	20	50				**50**
Resource Conservation Technologies									
Integrated Farming									
Water management									
Seed production	04	1-2	60	40	100				**100**
Integrated Crop	02	1-2	30	20	50				**50**

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management									
Total									
a) Vegetable & fruit Crops									
Off-season vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
Total									
b) Fruits	01	1-2	15	10	25				**25**
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									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female	Total	
deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing										
Total										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Disease Management										
Feed management										
Production of quality animal products										
Total										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Value addition										
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Women and child care										
Total										
VI Agril. Engineering										

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Total											
VII Plant Protection											
Integrated Pest Management	01	1-2	20	10		30	10			40	**40**
Integrated Disease Management	01	1-2	20	10		30	10			40	**40**
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											
XII Others (Pl. Specify)											
Grand Total											
(B) RURAL											

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								Grand Total
			Others				SC/ST				
			Male	Female		Total	Male	Female	Total		
YOUTH											
Mushroom Production											
Bee-keeping											
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											
Integrated Pest Management											
Integrated Nutrient management											
Protected cultivation technology											
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production											
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL	**11**	**1-2**									**305**

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	1-2	15	10	25				25
Resource Conservation Technologies									
Cropping Systems									
Crop Diversification									
Integrated Farming									
Water management									
Seed production	01	1-2	15	10	25				25
Nursery management	01	1-2	15	10	25				25
Integrated Crop Management									
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising									
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									

Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
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									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									

Production of bio control agents and bio pesticides									
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL	3	1-2 days							75

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										
Livestock production										

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

2. Off Campus

Month/ Tentative Date	**Clientele**	**Title of the training programme**	**Duration in days**	**Number of participants**						**Grand Total**
				Others			**Number of SC/ST**			
				Male	**Female**	**Total**	**Male**	**Female**	**Total**	
Crop Production										
Horticulture										
Livestock production										
Home Science										
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										

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										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	*Duration*	Client PF/ RY/ EF	No. of courses	No. of participants							Spo nsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	05	50	25	75						75
Kisan Mela	01	150	100	250						250
Kisan Ghosthi	02	50	30	80						80
Exhibition	-									
Film Show	-									
Method Demonstrations	-									
Farmers Seminar	-									
Workshop	01	150	100	250						250
Group meetings	05			50						50
Lectures delivered as resource persons	10	100	50	150						150
Newspaper coverage	04									
Radio talks	04									
TV talks	01									
Popular articles	01									
Extension Literature	-									
Advisory Services	30									
Scientific visit to farmers field	28									
Farmers visit to KVK	50	500	300	800						800
Diagnostic visits	10									
Exposure visits	20									
Ex-trainees Sammelan	-									
Soil health Camp	01									
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)	05	100	50	250						250
Others (pl. specify)										
Total	178	1100	555	1905						1905

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	Mango, guava, Custard apple, Jamun, Anola, Fig, Papaya, Bel, etc	Mango-Dashary , Langra, Amrapali Guava-L49, etc	10000
SPICES	Nil	Nil	Nil
VEGETABLES	Tomato, Brinjal, Onian, Capcicum,etc	Tomato- Manisha, Arka Rakshak, Arka Abhed, Brinjal – Rajni,PPL, Pant Samrat Onion-ALR, Red 3 Capsicum- Californiya wonder,	25000 seedlings
FOREST SPECIES			
ORNAMENTAL CROPS	Crotan , Tulsi, Gulab, Gudhal , Chandni, Mogra, etc		2000
PLANTATION CROPS			
Others (specify)			

Bio-products

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

BIOFERTILIZERS				
1	Vermicompost		01 Unit	500 kg
2	NADEP			
3				
BIO PESTICIDES				
1	*Dasparni* ark			
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-December	**Quarterly**	**--**

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	Sukaliya	Berasia	17
2	Kacchi Barkheda	Phanda	15
3	Gol Khedi	Phanda	10
4	Bhairo Pura	Phanda	8
5	Binapur	Phanda	10
6	Kalyanpura	Phanda	10
7	Raipur	Berasia	12
8	Kuthar	Berasia	20

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: Nil

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)
Soybean	Kharif	JS-2029		5000
Gram	Rabi	RVG-201		5000

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Crop cafeteria	Finger millet, Barnyard millet, Little millet, Proso millet, Brown top millet, Pearl millet, Sorghum, Soybean, and Paddy.	500	

ANNUAL ACTION PLAN 2024

KVK Burhanpur

Year of sanction: 2007

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sandip Kumar Singh	6265002626	9359426101	sandipsingh11@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
1	Programme Coordinator	Dr. Sandip Kr. Singh	Sr. Scientist and Head	Agronomy	135300	21.03.2022	21.03.2022	9359426101	sandipsingh11@rediffmail.com
2	Subject Matter Specialist	Shri. Bhupendra Singh	SMS/ Scientist 1	Agronomy	73200	16.09.2013	16.09.2013	9424840115	bhupendra666666@gmail.com
3	Subject Matter Specialist	Smt. Monika Jaiswal	SMS/ Scientist 2	Extension	73200	16.09.2013	16.09.2013	9806247711	monikajaiswal8@rediffmail.com
4	Subject Matter Specialist	Shri. Kartikey Singh	SMS/ Scientist 3	Plant Protection	73200	18.09.2013	18.09.2013	9424417643	kartikey.malap@gmnail.com
5	Subject Matter Specialist	Smt. Megha Vibhute	SMS/ Scientist 4	Horticulture	73200	19.09.2013	19.09.2013	8817454047	meghavibhute@gmail.com
6	Subject Matter Specialist	Shri. Amol Deshmukh	SMS/ Scientist 5	Animal Husbandry	71100	01.01.2016	01.01.2016	9096870449	amold2010@gmail.com
7	Subject Matter Specialist	Shri Rahul Satarkar.	SMS/ Scientist 6	Genetics & Plant Breeding	57800	21.03.2022	21.03.2022	9826936777.	satarkarrahul@gmail.com.
8	Programme Assistant	**VACANT (since 21.03.2022) /Selection Process**							
9	Computer Programmer/ Programme Assistant	Shri. Mohd Tauheed	Computer Programmer	M.Com PGDCA	56900	17.07.2007	17.07.2007	9479604311	tauheed.kvkburhanpur@gmail.com
10	Farm Manager	Shri. Sandeep Rathod	Farm Manager	M.Sc. Ag.	46200	23.12.2014	23.12.2014	7745921204	sandiprathod443@gmail.com
11	Assistant	Shri Sayed Navid	Accountant / superintendent	M.Com MBA	46200	22.12.2014	22.12.2014	8103646884	sayednavidquadri29@gmail.com
12	Jr.	Smt.	Stenograph	B.Com.	42200	17.07.2007	17.07.2007	9827304942	Afrin.kvkburhan

	Stenographer / Comp. Operator	Afrin Syed	er						pur@gmail.com
13	Driver	Shri. Shakil Uddin	Driver	8th	32000	17.07.2007	17.07.2007	9755810055	kvkburhanpur@rediffmail.com
14	Driver	Shri. Wasim Sahab	Driver	8th	32000	17.07.2007	17.07.2007	9039547508	kvkburhanpur@rediffmail.com
15	Supporting staff	Shri. Manoj Tayde	Supporting staff, if any	BA	28800	17.07.2007	17.07.2007	9926057804	manojtayde178@gmail.com
16	Supporting staff	Shri. Mahesh Singh	Supporting staff, if any	10th	28800	17.07.2007	17.07.2007	9179621744	kvkburhanpur@rediffmail.com

1.3 Total land with KVK (in ha): 21.6

S. No.	Item	Area (ha)
1	Under Buildings	550 sqm.
2	Under Demonstration Units	1.6
3	Under Crops	14
4	Orchard/Agro.forestry	03
5	Others (specify)	03
Total		-

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2011.2012	550 Sqm..	5500000.00	March 2009.10	550 Sqm..	Good
2	Farmers Hostel	ICAR	2011.2012	305 Sqm..	3050000.00	March 2009.10	305 Sqm..	Good
3	Staff Quarters (Nos. 06)	ICAR	2011.2012	400 Sqm..	4000000.00	March 2009.10	400 Sqm..	Good
4	Demonstration Units (Nos. 06)	-	-	-	-	-	-	-
4.1	Poultry Unit	MKTY	2017-18	1500Sqf.	300000.00	2016-17	1500Sqf.	Working
4.2	Goatery unit	MKTY	2017-18	3000 Sqf	400000.00	2016-17	3000 Sqf	Working
4.3	Livestock unit	ICAR IFS	2017-18	1500 Sqf	547860.00	2017-18	1500 Sqf	Working
4.4	Vermicomposting Unit	KVK	2020-21	1600 Sqf			1600 Sqf	Working
4.5	Azolla Unit	KVK	2018-19	720 Sqf			720 Sqf	Working
4.6	Natural farming Unit	KVK	2022-23	1 ha	-	-	1 ha	Working
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)	2007	512475.00		Good
Motor Cycle	2010	42300.00	-	-
Bolero(Jeep)	2019	800000.00	48709	Good

Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2010	36500.00	Working
Xerox Machine	2009	60187.00	Not working
Generator	-	-	-
Video Camera	2012	24000.00	Not working
GPS Machine	2015	15800	Not working
Computer, Laser Printer	-	-	-
Computer & Laser Printer HP	2007	34900.00	Not working
Computer Lenovo	2008	22556.00	Working
Printer Scanner & Fax Machine	2008	15000.00	Not Working
Laptop I	2010	36900.00	Not working
Computer & Laser Printer UPS	2012	45000.00	Working
Computer & EPSON Printer	2020	62200.00	Working
Computer & Canon Printer UPS	2021	65800.00	Working
Laptop II	2018	35000.00	Working
Mobile Phone	2018	14990	Working
UPS 600 VA	-	-	-
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	2009	25190.00	Not working
Inverter Battery (2)	2013	22000.00	Working

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

S. No.		Tentative Date
1	Kharif	May 2024
2	Rabi	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	AES – 1 Nimar valley Agro climatic Zone	Banana-Gram/Wheat/Maize Cotton-Wheat/Gram Soybean-Maize Onion/Coriander/Watermelon
2	AES – 2 Nimar valley Agro climatic Zone	Soybean-Wheat/gram Cotton-Gram Maize-Wheat

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

S. No.	Agro.climatic Zone	Characteristics
1	AES – 1 Nimar valley Agro climatic Zone	Block- Burhanpur and Khaknar Area: 129600 ha Cropping Pattern: Banana-Gram/wheat/Maize Cotton-Wheat/Gram Soybean-Maize Onion/Coriander/Watermelon
2	AES – 2 Nimar valley Agro climatic Zone	Block- Burhanpur and Khaknar Area: 194400 ha Cropping Pattern: Soybean-Wheat/Gram Cotton-gram Maize-wheat

SWOT Analysis of each Agro Ecological Situations of district

AES.1 (Nimar valley Agro climatic Zone (MP-11)

Strength	Weakness	Opportunities	Threats
• Availability of land resources enriched with black cotton soil • Farmers attraction towards cultivation of fruit crop ie Banana • Potential area for cultivation of cereals and pulses due to suitable agro climatic condition • Suitable climate condition for cattle, goat and poultry rearing	• Poor soil fertility management unawareness about green Manuring, composting techniques • Imbalance use of fertilizers and insecticide specially blind use of urea • Reluctance of farmers towards modern varities and their POP, faith in traditional or old varieties • Water level of the district is very low due to banana cultivation long year • Cultivation with very low input and unawareness /negligence for use of available natural resources	• Scope for promotion of natural farming and its trade at national and global level • Promotion of horticultural crops ,fruits and vegetables in different pocket of the district • Favorable condition for promotion of the medicinal crop, aromatic plants and spices in the district • Improvement in the production of cattle, goat and poultry • Improvement in the productivity of pulses and cereal	• Erratic rainfall(Untimely and unseasonal) which causes soil loss and severe infestation of insect pest and diseases • Climatic storms causes maximum destruction of Banana field • Frosty weather condition during winter which causes crop loss and attack of insect and pest result into poor productivity • Attack of wild boar

AES.2 (Nimar valley Agro climatic Zone (MP-11)

Strength	Weakness	Opportunities	Threats
• Availability of land resources enriched with black cotton soil • Farmers attraction towards cultivation of fruit crop ie Banana • Potential area for cultivation of cereals and pulses due to suitable agro climatic condition • Suitable climate condition for cattle, goat and poultry rearing	• Poor soil fertility management unawareness about green Manuring, composting techniques • Imbalance use of fertilizers and insecticide specially blind use of urea • Reluctance of farmers towards modern varities and their POP, faith in traditional or old varieties • Water level of the district is very low due to banana cultivation long year • Cultivation with very low input and unawareness /negligence for use of available natural resources	• Scope for promotion of natural farming and its trade at national and global level • Promotion of horticultural crops ,fruits and vegetables in different pocket of the district • Favorable condition for promotion of the medicinal crop, aromatic plants and spices in the district • Improvement in the production of cattle, goat and poultry • Improvement in the productivity of pulses and cereal	• Erratic rainfall(Untimely and unseasonal) which causes soil loss and severe infestation of insect pest and diseases • Climatic storms causes maximum destruction of Banana field • Frosty weather condition during winter which causes crop loss and attack of insect and pest result into poor productivity • Attack of wild boar

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	342741
Forest	224757
Waste Land	2329
Other than cultivated area	19854
Cultivable waste and alkaline land	-
Pastures	-
Bushes	-
Current Fallow	622
Other Fallow	1707
Agricultural Land	118716
Area Sown	103000
Kharif	118716
Rabi	66739
Zaid	

Cropping Intensity (%)	147

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	324
2	Well	34455
3	Tube well	19891
4	Ponds	4393
5	Others	3254

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"	Percent (%) of total
1	Light Soil	Soil is light, warm, dry and tends to be acidic and low in nutrients. Light soils are often known as sandy soils due to their high proportion of sand and little clay (clay weighs more than sand). These soils have quick water drainage and are easy to work with	491.20	46.17 %
2	Medium Soil	Medium-textured soils have equal parts sand, silt and clay. Finely textured soils are mostly clay or clay and silt. The same weight of clay can hold 50 times as much water as very fine sand particles	195.00	18.34 %
3	Heavy Soil	Heavy clays have a very high water-holding capacity, but most of the water is tightly bound and not available to plants. The humus content is often higher than in other mineral soils. They do not form a crust when they dry.	377.20	35.48 %

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

Area, Production and Productivity of major crops cultivated in the district (2022-23)

S. No	Crop	Area (ha)	Production (Qt.) or kg	Productivity (Q /ha) or Ton/ha
1	Rice	0.550	1.071	1950
2	Maize (Kharif)	18.30	75.122	4105
3	Jowar	3.050	8.876	2910
4	Pearl Millet	0.005	0.05	1085
5	Black Gram	0.95	0.588	600
6	Green Gram	0.930	0.588	600
7	Pigeonpea	7.610	14.079	1850
8	Sesame	0.210	0.223	1060
9	Groundnut	0.395	0.628	1590
10	Soybean	18.450	29.520	1600
11	Cotton	39.450	71.010	1800
12	Others	32.30	00.00	00
13	Wheat	22.80	88.08	3875
14	Maize (Rabi)	12.00	97.20	8110
15	Chickpea	21.00	41.90	2000
16	Pea	0.05	0.07	1310
17	Lentil	0.05	0.04	805
18	Mustard	0.12	0.15	1215
19	Flax	0.10	0.09	910
20	Safflower	0.00	0.00	0.00
21	Sugarcane	4.950	358.875	72600
22	Banana	23639	1654730	70.0
23	Guava	158	2212	14.0
24	Mango	140	1960	14.0
25	Papaya	143	10725	75.0
26	Pomegranate	199	3182	16
27	Lemon	277	3601	13
28	Brinjal	256	4608	18
29	Green Chilli	218	5123	23-50
30	Colocasia	125	2607.50	20.86
31	Ladyfinger	182	2184	12.0

32	Onion	740	14800	20
33	Tomato	340	20400	60
34	Red Chilli	500	1250	2-50
35	Turmeric	2540	67081	26.41
36	Ginger	220	4375	19.89

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

Month /Year	Rainfall (m.m.)	Temperature (^{0} C)	
		Maximum	Minimum
Jan, 2023	-	10	31
Feb, 2023	-	12	34
Mar, 2023	-	18	39
Apr, 2023	-	23	40
May, 2023	-	21	41
June, 2023	96.3	22	41
July, 2023	192.8	22	30
Aug, 2023	47.4	22	33
Sept, 2023	777.4	20	32
Oct, 2023	870.5	15	32
Nov, 2023	-	12	31
Dec, 2023	-	11	31

Production and productivity of livestock, Poultry, Fisheries etc.

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	137834	91.90 MT.	3.453 kg
Buffalo	54672		4.842 Kg
Sheep			
Crossbred/ Indigenous	30070	50.30 MT wool	……. Kg
Goats	121851	9760472 kg	0.550 gm
Pigs Crossbred/ Indigenous	231	...	...
Rabbits	208		
Poultry			
Hens	99746	90.39 Lakh eggs	…… eggs/ bird/yr
Turkey and others			
Category	**Area**	**Production**	**Productivity**
Fish	Data not provided by Fisheries department,Burhanpur		

Details of Operational area / Villages (2022)

S. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Burhanpur	Burhanpur	Bhavsa, Pipalgaon Mafi, Mohammadpura, Bholana, Ratagarh, Bhatkheda,	Banana, Soybean, Cotton, Maize, Chickpea, Wheat, Vegetable, onion, Turmeric and Goatery & Poultry	CMV, Sigatoka, Pinkwall worm, Falls army worm, IPM approach to manage insect pest unavailability of improved breed of poultry & Goatery, unavailability of green fodder, awerness of vaccination	Promotion of Integrated farming system, Livestock up gradation and Management, Seed replacement-use of high yielding varieties tolerant to biotic and abiotic factors, Promotion of Horticultural crops., Crop Diversification, Soil Health Improvement, Pest management in crops, Water Conservation and Management, Employment generation for rural youths through agri. Enterprises, Strengthening of marketing network
2	Nepanagar	Khaknar	Sandas kala, Sandas khurd, Hanumatkheda, Jalandhara, Harda, Dhulkot, Mahalgulara, Khatla, Dhaba, Sarola, Ambada, Basali, Bada Tanda, Pura, Bada Jainabad, Nasirabad, Siwal			
3	Khaknar	Khaknar	Karkheda, Nagziri, Saikheda, Mordhadkala, Tajnapur, Manjrod			

Priority / Thrust areas

S. No.	Particulars
1.	Varietal Evaluation
2.	Weed management
3	Nutritional Security
4	Promotion of minor millets
5	Crop Production & Quality Production Technology
6	Crop Diversification
7	Insect Pest & Disease management in Crop
8	Seed Production Technology
9	Promotion & awareness on Natural Farming for soil health improvement
10	Promotion & Awareness on ITK & Waste Decomposition
11	Disease Management in animals
12	Livestock up gradation and Production Management
13	Feed & Fodder Management
14	Nutrient/ Fertilizer management in crop
15	Promotion of intercropping
16	Value addition & food processing
17	Income Generation
18	Post harvest management practices
19	Promotion & awareness on new technologies in agriculture : protected cultivation, drone technology, integrated farming, Resource conservation technology, Cropping System & Water Management
20	EXT & TOT

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
25	305	25	345

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
96	2220	102	2418

Seed Production (Qtl.)	Planting material (Nos.)
175	10500

***Is net shade net house is available during financial year the planting material to be prepared**

B. Abstract of interventions to be undertaken

S. No.	Thrust area/ Thematic area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Titl e 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 Chickpea Coriander Maize	Low yield due to use of old variety	Assessment of High yielding varieties	Demonstration of high yielding variety of Soybean Demonstration of high yielding	-	-	CFLD, Field day, Media Coverage	Supply of seeds

					variety of rabi hybrid maize Pioneer 3567				
		Wheat			Demonstration of high yielding wheat varieties				
		Lobia			Demonstration of high yielding variety of Lobia				
		Papaya			Demonstration on papaya variety – Taiwan				
		Carrot			Demonstration on carrot variety Pusa Rudhira				
		Broccoli			Demonstration on Broccoli variety Pusa Purple Broccoli – 1/KTS-1				
2	Weed management	Wheat	Low yield due to post emergence of weed & increase s cost of cultivation due to excess weeding	Assessment of post emergence weedicide	-	Weed management	-	-	-
3	Nutritional Security	Fruits & Vegetables	-	-	Demonstration of nutritional kitchen garden	Nutritional Kitchen Garden	Nutritional Kitchen Garden	Field day, Media Coverage	Supply of seeds, planting materials etc.

4	Promotion of minor millets	Pearl Millet Sorghum	Low production due to use of traditional variety	Assessment of millet varieties	Demonstration of pearl millet variety	Minor Millet production	-	Field day, Media Coverage	-
5	Crop Production & Quality Production Technology	-	-	-	-	FIR technique Cropping System Rejuvenation of old orchards	-	-	-
6	Crop Diversification	Mustard Spices	-	-	-	Mustard Cultivation Production technology of spices	-	-	-
7	Insect Pest & Disease management in Crop	Onion Watermelon Soybean Garlic Coriander Cotton	Low yield of kharif onion due to heavy incidence of disease, insect & pest	Assessment of IDM module against purple blotch Assessment of management practices to control of sucking pest Assessment of Girdle Beetle Management Assessment of IPM technology for thrips management Assessment of management practice for Powdery Mildew	-	Sucking pest management in water melon IPM in Rabi Crop CMV disease management in banana IPM in Banana Sucking pest management in cotton	IPM in banana, Wilt management in chickpea, sucking pest management,	Field day, Media Coverage	-

		Pigeon pea Chickpea Maize			worm management in BT Cotton Demonstration for management of Fusarium wilt disease Demonstration for management of Fall army worm	Wilt disease management in chickpea			
8	Seed Production Technology	-	-	-	-	Seed Production	Seed Production technology	Media Coverage	-
9	Promotion & awareness on Natural Farming	Chickpea Green Gram Onion Soybean	Soil health deterioration due to non-judicious use of chemical fertilizer	Assessment of natural farming technique Assessment of pod borer management	-	Soil Testing Natural Farming	Natural farming	Awareness Programmes, Media Coverage	-
10	Promotion & Awareness on Waste Decomposition & ITK	Sugarcane Banana	-	-	Demonstration of waste decomposer	Waste Decomposer ITK	-	Field day, Media Coverage	-
11	Disease Management in animals	Poultry Buffalo Goatery	High mortality (30%) of broiler due to CRD in broiler poultry ,Affected birds 60%	Assessment of tylosine sulphate for control of Chronic respiratory Disease (CRD) in broiler poultry	- Demonstration of control of Mastitis in Buffalo	Disease management in poultry Vaccination & their importance in small ruminants	-	Awareness Programme & Media Coverage	-

						Disease management in goatery			
12	Livestock up gradation and Production Management				Demonstration of Japanes Quail	Backyard Poultry management Improved Poultry Breed Goatery Production Management	-	Awareness Programme & Media Coverage	-
13	Feed & Fodder Management	Buffalo Dairy Cattle	Low milk yield and income due to conventional ration feeding Low fertility (60%) and milk production (20%) from Indigenous cattle due to lack of trace minerals. Animal affected 70%	Assessment of by pass protein on milk production Assessment of chelated trace minerals supplement on fertility and milk production in Indigenous cattle	Demonstration of Azolla in Buffalo Demonstration of Bypass Fat in Dairy Cattle	Azolla Production Management Feed & Nutrient Management Fodder Management Silage Making	-	Awareness Programme & Media Coverage	-
14	Nutrient/ Fertilizer management in crop	Chilli Wheat	Low yield (25%) due to flower drop Low yield due to low nitrogen use efficiency	Assessment of foliar spray of alpha naphthenic acetic acid for control of flower drop Assessment of Nano Urea on growth and yield attributes	Demonstration of Nano DAP	Balanced used of fertilizer Nano DAP & Nano Urea Fertigation technology in banana	-	Field day, Awareness Programme & Media Coverage	-
15	Promotion of intercropping	-	-	-	-	-	Raising additional income through intercropping	-	-
16	Value addition &	-	-	-	-	-	Value addition &	-	-

	food processing						food processing		
17	Income Generation	Goat	Not aware about the goat farming economic benefits	Assessment of goat farming economics	-	Mushroom Cultivation	-	RY training on vermicompost production, nursery management, poultry production management, seed production	-
18	Post harvest management practices	-	-	-	-	Post Harvest Management	-	-	-
19	Promotion & awareness on new technologies in agriculture : protected cultivation, drone technology, integrated farming, Resource conservation technology, Cropping System & Water Management	Pigeonpea Banana	-	-	Demonstration of drone technology on pesticide spraying for control of pod borer in pigeopea Demonstration of drone technology on pesticide spraying for control of sigatoka in banana	Resource Conservation Technology Integrated Farming Water Harvesting Protected Cultivation	-	-	-
20	EXT & TOT	Soybean Wheat Onion	Lack of awareness	Study on effective extension methods for TOT	-	-	-	-	-

Technologies to be assessed

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

Thematic areas	**Cereals**	**Oilseeds**	**Pulses**	**Vegetables**	**Fruits**	**Millets**	**TOTAL**
Varietal Evaluation	-	1 (Soybean)	1 (Chickpea)	1 (Coriander)	-	2 (Pearl millet, Sorghum)	**05**
Weed Management	1 (Wheat)	-	-	-	-	-	**01**
Natural Farming	-	1 (Soybean)	2 (Chickpea, Green Gram)	1 (Onion)	-	-	**04**

IDM	-	-	-	1 (Onion)	-	-	**01**
IPM	-	1 (Soybean)	-	2 (Garlic, Coriander)	1 (Watermelon)	-	**04**
Nutrient Management	1 (Wheat)	-	-	1 (Chilli)	-	-	**02**
EXT & TOT	1 (Wheat)	2 (Soybean)	-	1 (Onion)	-	-	**04**
TOTAL	**03**	**05**	**03**	**07**	**01**	**02**	**21**

A.2 Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle & Buffalo	Poultry	Goatery	TOTAL
Disease Management	-	01	-	**01**
Production Management	-	-	01	**01**
Feeding Management	02	-	-	**02**
TOTAL	**02**	**01**	**01**	**04**

Details of On Farm Trial (OFT)

OFT.1 (Agronomy) Kharif

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of High yielding varieties of soybean (I^{st} year)	
Season/Year	Kharif, 2024	
Problem diagnosed	Low yield of soybean due to use of old variety JS-335	
Farming Situation	Irrigated	
Production system and thematic area	Varietal Evaluation	
Farmers' Practices	T_1	JS - 335 (1994)
Details of technologies selectedfor assessment	T_2	Raj Soya -18 : Maturity 90-95 days, Yield 21.5 qtl./ha, Resistant to YMV .
	T_3	Raj Soya -24 (RVS 2002-4) : Maturity 93-95 days, Yield 21-22.5 qtl./ha, Resistant to YMV.
Source of technology	RVSKVV, Gwalior (2017)	
Plot size	0.3 ha/farmer	
No. of farmers	10	
Total cost	15000	
Critical input	Soybean Seed (Raj soya 18 & Raj soya 24)	
Performance indicators: **(i) Technical. yield (q/ ha)** **(ii) Economic** **(iii) Social**	Stover/Grain yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 2 (Agronomy) Rabi

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of post emergence weedicide in wheat (II^{nd} year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low yield of wheat due to increase in cost of cultivation due to excess weeding	
Farming Situation	Irrigated	
Production system and thematic area	Weed Management	
Farmers' Practices	T_1	Kolpa (local device)
Details of technologies selectedfor assessment	T_2	Spray of clodinafop 150gm 15%/ha + metsulfuron methyl @ 20 gm .20%/ha. at 25 - 30 DAS
	T_3	Spray of sulfosulfuron 75%/ha + metsulfuron methyl 5%/ha @ 40gm/ha at 25-30 DAS
Source of technology	Extension bulletin IARI Indore July, 2015	
Plot size	0.3 ha/farmer	
No. of farmers	10	
Total cost	10000	
Critical input	Weedicide : clodinafop & sulfosulfuron	

Performance indicators: **) Technical. yield (q/ ha)** **Economic** **Social**	 Stover/Grain Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment generation

OFT. 3 (Agronomy) Rabi

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of natural farming technique in chickpea crop (IInd year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Soil health deterioration due to non-judicious use of chemical fertilizer	
Farming Situation	Irrigated	
Production system and thematic area	Natural Farming	
Farmers' Practices	**T_1**	Use of chemical fertilizers
Details of technologies selectedfor assessment	**T_2**	Natural farming ingredients : sseed treatment with beejamrut and 4 application of Jeevamrut after 15 days interval and application of I spray of Neemastra and II spray of Bramhastra a week interval of flowering stage and Dashparni ark at pod filling stage
Source of technology	"Kam lagat Prakratik Kheti" Book, Acharya Devvrat, 2019 & Regional Research Station Sehore RVSKVV Gwalior	
Plot size	0.2 ha/farmer	
No. of farmers	10	
Total cost	18000	
Critical input	Seed + Natural farming components	
Performance indicators: **i) Technical. yield (q/ ha)** **i) Economic** **Social**	 Stover/Grain Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment generation	

OFT 4 (Agronomy) Zaid

Crop / Enterprise	Green gram	
Title of on farm trial	Assessment of Natural Farming technique in Green gram (IInd year)	
Season/Year	Zaid, 2025	
Problem diagnosed	Poor soil health, high cost of cultivation and poor quality produce	
Farming Situation	Irrigated	
Production system and thematic area	Natural Farming	
Farmers' Practices	**T_1**	Conventional farming
Details of technologies selectedfor assessment	**T_2**	Seed treatment with Beejamrut @ 250 ml/kg seed Ghanjeevamrut application at sowing time @ 250 kg/ha, Jeevamrut @ 500 l/ha, 21, 45 DAS. Neemastra and Dashparni Ark @ 25 l/ha at 20 and 40 DAS
Source of technology	**"**Kam lagat Prakratik Kheti" Book, Acharya Devvrat, 2019	
Plot size	0.2 ha/farmer	
No. of farmers	10	
Total cost	20000	
Critical input	Seed and natural farming ingredients	
Performance indicators: **Technical. yield (q/ ha)** **Economic** **Social**	 Stover/Grain Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment generation	

OFT. 5 (Horticulture) Kharif

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of IDM module against purple blotch of kharif onion (IInd Year)	
Season/Year	Kharif, 2024	
Problem diagnosed	Low yield of kharif onion due to heavy incidence of purple blotch disease	
Farming Situation	Irrigated	
Production system and thematic area	Integrated Disease Management	
Farmers' Practices	**T_1**	Indofil M-45 @ 1000g/h at the time of infestation

Details of technologies selectedfor assessment	T_2	Seed treatment + COC 50% EC @ 2gm/lt of water Ist at 30 DAT & IInd at 40 DAT
	T_3	Seed treatment + hexaconazol 5% + Captan 70% WP @ 750gm/ha. Ist at 30 DAT & IInd at 40 DAT
Source of technology	DOGR, Pune, Maharashtra ,2015	
Plot size	0.3 ha. /farmer	
No. of farmers	10	
Total cost	10000	
Critical input	COC 50% EC & hexaconazol 5% + Captan 70% WP	
Performance indicators: **ii) Technical. yield (q/ ha)** **/) Economic** **) Social**	Grain/Stover Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment generation	

OFT. 6(Horticulture) Kharif

Crop / Enterprise	Chilli	
Title of on farm trial	Assessment of foliar spray of alpha naphthenic acetic acid for control of flower drop in chilli (II^{nd} yr)	
Season/Year	Kharif, 2024	
Problem diagnosed	Low yield (25%) due to flower drop in chilli.	
Farming Situation	Sandy loam-Irrigated	
Production system/Thematic area:	Control flower drop & increase production	
Farmers Practice:	T_1	No use of plant growth regulator
Details of technology selected for assessment/ refinement:	T_2	Foliar spray of NAA (50 ppm) at 45DAT
	T_3	Foliar spray of NAA (50 ppm) at 45 and 60 DAT
Source of technology	BCKV, Mohanpur, 2017	
Plot Size	0.3 ha	
No of farmers	10	
Total cost	Rs. 5000	
Critical input	Naphthenic acetic acid - Helps in fruit setting and enlargement. It is used to prevent flower and fruit drop	
Performance indicators: **(vi) Technical. yield (q/ ha)** **vii) Economic** **/iii) Social – Employment generation**	Flower drop (%), fruit setting (%), fruit size (cm), yield (q/ha) Net return (Rs./ha), B:C ratio Employment Generation	

OFT. 7(Horticulture) Rabi

Crop / Enterprise	Watermelon	
Title of on farm trial	Assessment of management practices to control of sucking pest in watermelon (I^{st} Year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low yield of watermelon due to attack of sucking pest.	
Farming Situation	Irrigated	
Production system and thematic area	Integrated Pest Management	
Farmers' Practices	T_1	Use of pesticide at the time of infestation
Details of technologies selectedfor assessment	T_2	Use of yellow sticky trap @ 5/ acre followed by one spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
	T_3	Use of yellow and blue sticky trap @ 3:3/acre followed by two spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
Source of technology	Dr. Satyagopal Korlapati, IAS, Director General, Department of Agriculture & Coorporation ,Govt of India	
Plot size	0.3 ha	
No. of farmers	10	
Total cost	15000	
Critical input	Yellow & blue sticky traps with insecticides	
Performance indicators: **x) Technical. yield (q/ ha)** **) Economic** **) Social**	Fruit Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment generation	

OFT. 8 (Horticulture) Rabi

Crop/Enterprise	Onion	
Title of on-farm trial	Assessment of Natural Farming technique in Onion (II nd year)	
Season/Year	Rabi, 2024	
Problem diagnosed	High cost of production due to chemical spray against sucking pest	
Farming situation	Irrigated	
Production system and thematic area	Natural Farming	
Farmers' practices	**T_1**	Chemical Farming
	T_2	Seed treatment with beejamrit while transplanting , Application of Jeevamrut @ 21 days interval or spraying directly to the crops. Soil mulching with Acchadhan. I spray of Neemastra @ 5lit/pump II Spray of Agniastra @ 5lit/pump III Spray of Dashparni ark @ 5lit/pump
Source of technology	Kam lagat Prakratik Kheti" Book, Acharya Devvrat, 2019	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	Rs. 10,000	
Critical input	Natural farming ingredient	
Performance indicators: **(xxii) Technical. yield (q/ ha)** **(xxiii) Economic** **(xxiv) Social**	Fruit yield (kg/ha) Economics (net return and B:C ratio) Employment Generation	

OFT. 9 (Plant Protection) Kharif

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of Girdle Beetle Management in Soybean Crop. (I st Year)	
Season/Year	Kharif, 2024	
Problem diagnosed	Low yield of Soybean about 30-40 % losses due to heavy infestation of Girdle beetle	
Farming Situation	Rainfed	
Production system and thematic area	Insect & Pest Management	
Farmers' Practices	**T_1**	Prophenophos 50% EC @ 1.5 lit /ha at 30 days after sowing
Details of technologies selectedfor assessment	**T_2**	Chlorantraniliprole 18.5 % SC @ 150 ml/ha at 35 DAS
	T_3	Thiacloprid 21.7 % SC @ 750 ml/ha at 35 DAS
Source of technology	CIB, 2016	
Plot size	0.3 ha	
No. of farmers	10	
Total cost	6500	
Critical input	Chlorantraniliprole 18.5 % SC + Thiacloprid 21.7 % SC	
Performance indicators: **(v) Technical. yield (q/ ha)** **Economic** **Social**	Grain/Stover Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 10 (Plant Protection) Kharif

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of pod borer management in soybean by natural farming technique.(I st Year)
Season/Year	Kharif, 2024
Problem diagnosed	Low yield of Soybean due to pod borer infestation and increase in cultivation cost.
Farming Situation	Rainfed
Production system and thematic area	Insect Pest Mangement

Farmers' Practices	**T_1**	Spray of Prophenophos + Cypermethrein 1000ml/ha
Details of technologies selectedfor assessment	**T_2**	I spray of Brahmastra@15-20 lit/ha at the time of flowering stage and II spray of agniastra @15-20 lit/ha in time of pod formation and milking stage , interval of 15 days
Source of technology	DSR, Indore M.P. & RVSKVV Publication No. 141 (2022)	
Plot size	0.2 ha/farmer	
No. of farmers	10	
Total cost	7000	
Critical input	Natural farming Bramhastra & Agniastra	
Performance indicators: **(vi) Technical. yield (q/ ha)** **vii) Economic** **viii) Social**	Grain/Stover Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 11 (Plant Protection) Rabi

Crop / Enterprise	Garlic	
Title of on farm trial	Assessment of IPM technology for thrips management in Garlic (I^{st} Year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low yield due to heavy infestation of thrips	
Farming Situation	Rainfed	
Production system and thematic area	Integrated Pest Management	
Farmers' Practices	**T_1**	Use of dimethoate 30EC (Rogar)
Details of technologies selectedfor assessment	**T_2**	Use of blue sticky card + reduction in nitrogen fertilizer + fipronil @ 600 ml/ha.
	T_3	Use of blue sticky card + reduction in nitrogen fertilizer + spinosad @ 100 ml/ha.
Source of technology	DOGR, Pune	
Plot size	0.3 ha	
No. of farmers	10	
Total cost	15000	
Critical input	Blue sticky card with insecticides	
Performance indicators: **(ix) Technical. yield (q/ ha)** **x) Economic** **(i) Social**	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 12(Plant Protection) Rabi

Crop / Enterprise	Coriander	
Title of on farm trial	Assessment of management practice for Powdery Mildew in Coriander (II^{nd} year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low yield of coriander seed due to heavy infection of Powdery Mildew	
Farming Situation	Rainfed	
Production system and thematic area	Disease Management	
Farmers' Practices	**T_1**	Sulphur 80 % WP @ 2 kg/ha at 45 DAS
Details of technologies selectedfor assessment	**T_2**	Tebuconazole 25.9 EC@ 750 ml /ha at 30 & 45 DAS
	T_3	Propiconazole 25 % E.C. @ 750 ml /ha at 30 & 45 DAS
Source of technology	Journal of Spice and Aromatic Crops Vol. 26(1) : 59-62 (2017)	
Plot size	0.3 ha/ Farmer	
No. of farmers	10	
Total cost	8500	
Critical input	Fungicides	
Performance indicators: **(xii)Technical. yield (q/ ha)** **xiii) Economic** **(iv) Social**	No of Plant affected/ sq m,Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 13 (Genetic & Plant Breeding) Kharif

Crop/Enterprise	Pearl millets
Title of on-farm trial	Assessment of Pearl millet varieties AHB-1200 and Dhanshakti (II^{nd} year)
Season/Year	Kharif, 2024
Problem diagnosed	Low production of pearl millet due to use of traditional variety.

Farming situation	Rainfed	
Production system and thematic area	Varietal Evaluation	
Farmers' practices	T_1	Pioneer - 86M35
Details of technologies selected for assessment/refinement Treatments	T_2	AHB 1200 (ICMH 1202) - Fe 89 & zinc 45 ppm
	T_3	Dhanshakti (ICTP. 8203) - Fe 76-91 ppm & zinc 39-48 ppm
Source of technology	VNMKVV, Parbhani (2018 & 2014)	
Plot size	0.3 ha/farmer	
No. of farmers	10	
Total cost	8000	
Critical input	Pearl millet seed Variety AHB 1200 and Dhanshakti	
Performance indicators: **(xv) Technical. yield (q/ ha)** **xvi) Economic** **Social**	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 14(Genetic & Plant Breeding) Kharif

Crop / Enterprise	Sorghum	
Title of on farm trial	Assessment of Rabi Sorghum Variety (IInd year)	
Season/Year	Rabi, 2024	
Problem diagnosed	No practice of sorghum in rabi	
Farming situation	Rainfed	
Production system and thematic area	Crop Diversification	
Farmers' Practices	T_1	Advanta -537
Details of technologies selectedfor assessment	T_2	Phule Yashomati (RSV 1910) : Productivity Grain Yield : 9.2 q/ha. Fodder Yield: 42.6 q/ha
	T_3	Phule Purva (RSV 2371) : Productivity. Grain Yield : 20-25 q/ha. Fodder Yield: 55-60 q/ha.
Source of technology	MPKV, Rahuri Maharastra (2021 & 2022)	
Plot size	0.3 ha/farmer	
No. of farmers	10	
Total cost	12000/-	
Critical input	Sorghum Seed variety Phule Yashomati & Phule Purva	
Performance indicators: **(xvii) Technical. yield (q/ ha)** **xviii) Economic** **(ix) Social**	Grain/Stover Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 15 (Genetic & Plant Breeding) Rabi

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Chickpea improved Variety (Ist Year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low yield of chickpea due to use of old variety JG-130	
Farming situation	Irrigated	
Production system and thematic area	Varietal Evaluation	
Farmers' Practices	T_1	JG - 130
Details of technologies selectedfor assessment	T_2	RVG – 204. Yield : 20-25q/ha, Maturity : 111 days
	T_3	JG – 36. Yield : 18-20q/ha, Maturity : 110-120 days
Source of technology	RVSKVV, Gwalior (2021 & 2016)	
Plot size	0.3 ha/farmer	
No. of farmers	10	
Total cost	20000	
Critical input	Chickpea seed variety RVG-204 & JG-36	
Performance indicators: **) Technical. yield (q/ ha)** **) Economic** **) Social – Employment generation**	Grain/Stover Yield (qtls/ha.) Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 16 (Genetic & Plant Breeding) Rabi

Crop / Enterprise	Coriander	
Title of on farm trial	Assessment of Coriander improved Variety (IInd Year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low yield of coriander due to use of old variety	
Farming situation	Irrigated	
Production system and thematic area	Varietal Evaluation	
Farmers' Practices	**T_1**	Local variety- Indori Coriander
Details of technologies selectedfor assessment	**T_2**	ACR-1 (Stem gall resistant variety, plant height of 113.9 cm, The variety is also suitable for seed & green leaf production avg yield 14 q/ha.)
	T_3	ACR-2 (Suitable for seed production, seed shape is oval & suitable for export Avg yield 16 q /ha., resistant to powdery mildew)
Source of technology	NRCSS (Ajmer) 2015 & 2017	
Plot size	0.3 ha/farmer	
No. of farmers	10	
Total cost	12000	
Critical input	Coriander Seed	
Performance indicators: **iii) Technical. yield (q/ ha)** **v) Economic** **) Social**	Grain Yield (qtls/ha.) Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT . 17 (Animal Husbandry) Kharif

Crop / Enterprise	Cattle	
Title of on farm trial	Assessment of use of ITK technique (mixture of ajwain, fenugreek, sugar & pigeon pea) to increase milk production in cattle (Ist Year)	
Season/Year	Kharif, 2024	
Problem diagnosed	Low milk production	
Farming situation	All season	
Production system and thematic area	Indigenous Technical Knowledge & Livestock Production Management	
Farmers' practices	**T_1**	Wheat Choker 8 kg/day animal + dry fodder 10 kg /day/animal
Details of technologies selected for assessment/refinement Treatments	**T_2**	Use of 50g ajwain, 150g fenugreek, 50g sugar & 500g pigeon pea in 1 lt. water give animal twice a day for 90 days
Source of technology	ITK in Agriculture Document-2, Page no. 331	
Plot Size/ No. of animals	10	
No. of farmers	10	
Total cost	8000/-	
Critical input	ajwain, fenugreek, sugar & pigeon pea	
Performance indicators: **(xlvi) Growth and Yield attributes** **(xlvii) Technical- yield** **(xlviii) Economic** **(xlix) Social**	Milk Yield (per day upto 90 days) % increases in milk production B:C ratio Employment Generation	

OFT . 18 (Animal Husbandry) Kharif

Crop / Enterprise	Poultry	
Title of on farm trial	Assessment of Tylosine Sulphate for control of Chronic Respiratory Disease (CRD) in broiler poultry (Ist year)	
Season/Year	Kharif, 2024	
Problem diagnosed	High mortality (30%) of broiler due to CRD in broiler poultry ,Affected birds 60%	
Farming situation	Deep litter system	
Production system and thematic area	Disease Management	
Farmers' practices	**T_1**	No control measures for CRD in broiler birds
Details of technologies selected for assessment/refinement Treatments	**T_2**	Use of Tylosine Sulphate @2 gm /lit of water for three days thereafter 1 gm/liter of water for three days thereafter 1 gm/liter of water for four days
Source of technology	CARI, Izatnagar (Bareli) 2017	
Plot Size/ No. of birds	1000	
No. of farmers	5	
Total Cost	4000	

Critical input	Tylosine Sulphate
Performance indicators: **(l) Growth and Yield attributes** **(li)Technical- yield** **(lii) Economic** **(liii) Social**	 BW/Bird (Kg), FCR Mortality % Gross return, Net income, B:C ratio in group basis Employment Generation

OFT . 19 (Animal Husbandry) Rabi

Crop/Enterprise	Buffalo	
Title of on-farm trial	Assessment of by pass protein on milk production in dairy Buffalo (IInd Year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low milk yield and income due to conventional ration feeding	
Farming situation	Rainfed	
Production system and thematic area	Livestock Production Management	
Farmers' practices	**T_1**	Farmers Practice use of choker & cakes (conventional feed)
Details of technologies selected for assessment/refinement Treatments	**T_2**	Use of Bye- Pass protein @ 50 gm+ With concentrate feed per animal per day after calving for three month
Source of technology	IVRI, Izatnagar – 2009 & NDDB, India 2021	
Plot Size/ No. of animals	10	
No. of farmers	10	
Critical input	Bye- Pass protein : Increase in efficiency of utilization of proteins. Increase in availability of essential amino acids. Increase the supply of limiting amino acids like lysine and methionine to the small intestine. Improvement in milk production	
Total cost	10000	
Performance indicators Observation to be recorded Performance indicators: **(liv) Growth and Yield attributes** **(lv) Technical- yield** **(lvi) Economic** **(lvii) Social**	 Milk Yield (per day upto 90 days) % increases in milk production B:C ratio Employment Generation	

OFT . 20 (Animal Husbandry) Rabi

Crop/Enterprise	Indigenous cattle	
Title of on-farm trial	Assessment of chelated trace minerals supplement on fertility and milk production in Indigenous cattle (IInd year)	
Season/Year	Rabi, 2024	
Problem diagnosed	Low fertility (60%) and milk production (20%) from Indigenous cattle due to lack of trace minerals. Animal affected 70%	
Farming situation	Rainfed	
Production system and thematic area	Rural smallholder dairy production system and Feeding management	
Farmers' practices	**T_1**	Wheat Chocker 6 kg + Dry fodder 10 Kg/ Animal
Details of technologies selected for assessment/refinement Treatments	**T_2**	Supplement of trace minerals @ 40 gm / animal / day after calving up to three months

Source of technology	NDRI, Karnal 2012
Plot Size/ No. of animals	10
No. of farmers	10
Critical input	Chelated trace minerals supplement : Supplementations of trace minerals improve conception rate & productivity in dairy cows in different situations. Zinc (Zn): Numerous studies have indicated that zinc may be the most widely deficient trace mineral. A component of more than 300 enzymes and hormones, zinc plays an important role in metabolism
Total cost	Rs. 10000
Performance indicators Observation to be recorded Performance indicators: **(lviii) Growth and Yield attributes** **(lix) Technical- yield** **(lx) Economic** **(lxi) Social**	 Milk Yield (per day upto 90 days) % increases in milk production B:C ratio Employment Generation

OFT. 21(Agronomy) Rabi – Dr.S.K.Singh

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Nano Urea on growth and yield attributes of wheat (IInd year)	
Season/ Year	Rabi, 2024	
Problem diagnosed	Low yield of wheat due to low nitrogen use efficiency	
Farming Situation	Irrigated	
Production system and thematic area	Fertilizer management	
Farmers' Practices	**T_1**	10% Basal +90% Broadcasting (250 kg Urea)
Details of technologies selectedfor assessment	**T_2**	100% through Urea (100 kg N) ,25% Basal,, 25% Tillering, Jointing & Flowering
	T_3	50% through Urea as basal+ top dressing , + Two foliar spray of Nano urea @ 2.0 ml/liter water growth and panicle formation
Source of technology	IFFCO	
Plot size	0.3 ha/farmer	
No. of farmers	10	
Total cost	12000	
Critical input	Seed + Nano Urea : Nano urea particles has an average physical size of 20-50 nm and contains 4 % nitrogen by weight in its nano form. Further, application of nano urea (liquid) improves yield, biomass, soil health and nutritional quality of the produce due to higher absorption rate, utilization efficacy and minimum losses.	
Performance indicators: **ii) Technical. yield (q/ ha)** **ii) Economic** **/) Social**	 Grains/Panicle, 1000 test weight (g), Yield (qtls/ha.) Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Employment Generation	

OFT. 22 (Agriculture Extension) Kharif

Crop / Enterprise	Soybean	
Title of on farm trial	Study on effective extension methods for TOT of soybean variety JS-2069	
Season/ Year	Kharif, 2024	
Problem diagnosed	Lack of Awareness	
Farming Situation	Irrigated	
Production system and thematic area	EXT & TOT	
Farmers' Practices	**T_1**	Using informal methods of technology diffusion like Friends, Neighbours, Input dealers etc
Details of technologies selectedfor assessment	**T_2**	Training & Extension Activities
	T_3	Demonstration

Source of technology	JNKVV, Jabalpur
No. of farmers	25
Total cost	2500/-
Critical input	Training & Extension Activities
Performance indicators: **(lxv) Technical. yield (q/ ha)** **(lxvi) Economic** **(lxvii) Social – Employment generation**	Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Gain in Knowledge, Retention of Knowledge, Change in Attitude and Adoption of Technology

OFT. 23(Agriculture Extension) Kharif

Crop / Enterprise	Soybean	
Title of on farm trial	Study on effective extension methods for TOT of soybean variety JS-2098	
Season/ Year	Kharif, 2024	
Problem diagnosed	Lack of Awareness	
Farming Situation	Irrigated	
Production system and thematic area	EXT & TOT	
Farmers' Practices	**T_1**	Using informal methods of technology diffusion like Friends, Neighbours, Input dealers etc
Details of technologies selectedfor assessment	**T_2**	Training & Extension Activities
	T_3	Demonstration
Source of technology	JNKVV, Jabalpur	
No. of farmers	25	
Total cost	2500	
Critical input	Training & Extension Activities	
Performance indicators: **viii) Technical. yield (q/ ha)** **x) Economic** **) Social – Employment generation**	Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Gain in Knowledge, Retention of Knowledge, Change in Attitude and Adoption of Technology	

OFT. 24(Agriculture Extension) Kharif

Crop / Enterprise	Wheat	
Title of on farm trial	Study on effective extension methods for TOT of wheat variety DBW-187	
Season/ Year	Rabi, 2024	
Problem diagnosed	Lack of Awareness	
Farming Situation	Irrigated	
Production system and thematic area	EXT & TOT	
Farmers' Practices	**T_1**	Using informal methods of technology diffusion like Friends, Neighbours, Input dealers etc
Details of technologies selected for assessment	**T_2**	Training & Extension Activities
	T_3	Demonstration
Source of technology	JNKVV, Jabalpur	
No. of farmers	25	
Total cost	2500/-	
Critical input	Training & Extension Activities	
Performance indicators: **xi) Technical. yield (q/ ha)** **ii) Economic** **iii) Social – Employment generation**	Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Gain in Knowledge, Retention of Knowledge, Change in Attitude and Adoption of Technology	

OFT. 25(Agriculture Extension) Rabi

Crop / Enterprise	Onion
Title of on farm trial	Study on effective extension methods for TOT of onion variety Bhima Shakti/ Red
Season/ Year	Rabi, 2024
Problem diagnosed	Lack of Awareness

Farming Situation	Irrigated	
Production system and thematic area	EXT & TOT	
Farmers' Practices	**T_1**	Using informal methods of technology diffusion like Friends, Neighbours, Input dealers etc
Details of technologies selectedfor assessment	**T_2**	Training & Extension Activities
	T_3	Demonstration
Source of technology	JNKVV, Jabalpur	
No. of farmers	25	
Total cost	2500/-	
Critical input	Training & Extension Activities	
Performance indicators: **xiv) Technical. yield (q/ ha)** **(v) Economic** **vi) Social – Employment generation**	 Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio Gain in Knowledge, Retention of Knowledge, Change in Attitude and Adoption of Technology	

Detailed Information about OFT:

1. Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of High yielding varieties of soybean (I^{st} year)
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of soybean due to use of old variety JS-335
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.	JS-335 (1994)
T2 –Recommended Practice.	RAJ SOYA-18 (2017)
T3. Recommended Practice.	RAJ SOYA-24 (2017)
Date of sowing:	June, 2024
Date of harvesting:	October, 2024
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	RAJ SOYA-18 (Maturity 90-95 days, Yield 21.5 qtl./ha, Resistant to YMV 2017
	RAJ SOYA - 24 (Maturity 93-95 days, Yield 21-22.5 qtl./ha, Resistant to YMV) 2017
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

2. Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of post emergence weedicide in wheat (II^{nd} year)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to post emergence of weed & increase s cost of cultivation due to excess weeding
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.	Hand weeding
T2 –Recommended Practice.	Spray of clodinafop 60g, ai/ha + metsulfuron methyl @ 4 gm ai/ha at 25-30 DAS
T3. Recommended Practice.	Spray of sulfosulfuron 25gm ai/ha + metsulfuron methyl @ 4 gm ai/ha at 25-30 DAS
Date of sowing:	November, 2024
Date of harvesting:	March, 2025
Source of technology:	IARI, Indore, 2015 july extension bulletin Ist
Characteristics of technology:	Clodinafop is an herbicide used for post-emergence control of grass weeds in broadleaf crops like wheat, barley, and oats. Metsulfuron-methyl is an herbicide used to control select broadleaf weeds, trees and brush, and some annual grasses. Its stops cell division in the shoots and roots of the plant causing plants to die. Metsulfuron-methyl is the active ingredient in the herbicide product Sulfosulfuron is an herbicide for selective control of listed annual and perennial grasses and broadleaf weeds in Non-crop Use Sites, Pasture and Rangeland Use Sites, Winter and Spring Wheat.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

3 .Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of natural farming technique in chickpea crop (IInd year)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Soil health deterioration due to non-judicious use of chemical fertilizer
Thematic area:	Natural Farming
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 chemical fertilizers
T2 –Recommended Practice.	Natural farming ingredients from sowing with bijamrut and 4 application of Jivamrit after 21 days interval and application of 1st spray of Nimastra and 2nd sparay of Bramhastra a week interval of flowering statge and Dashparni ark at pod filling stage
Date of sowing:	November, 2024
Date of harvesting:	March, 2025
Source of technology:	"Kam lagat Prakratic Kheti" Book, Acharya Devvrat, 2019
Characteristics of technology:	Beejamrit is an ancient, sustainable agriculture technique. It is used for seeds, seedlings or any planting material. It is effective in protecting young roots from fungus. Beejamrit is a fermented microbial solution, with loads of plant-beneficial microbes, and is applied as seed treatment. Jeevamrit is a natural liquid fertilizer. It is made by mixing water, dung (in the form of manure) and urine from cows with some mud from the same area as the manure will be applied in later. Food is then added to speed the growth of microbes: jaggery or flour can be used. Brahmastra. This is a natural insecticide prepared from leaves which have specific alkaloids to repel pests. It controls all sucking pests and hidden caterpillars that are present in pods and fruits Dashparni ark and Neem Astra are used to control pests and diseases. Weeds are considered essential and used as living or dead mulch layer. multi-cropping is encouraged over single crop method.
Name of Crop/Enterprises:	Chickpea

Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

4. Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of Natural Farming technique in Green gram (IInd year)
Year/Season:	2024/ Zaid
Farming situation:	Irrigated
Problem diagnosis:	Poor soil health, high cost of cultivation and poor quality produce
Thematic area:	Natural Farming
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.	Conventional farming
T2 –Recommended Practice.	Seed treatment with Beejamrit @ 250 ml/kg seed Ghanjeevamrit application at sowing time @ 250 kg/ha, Jeevamrut @ 500 l/ha, 21, 45 DAS. Neemastra and Dashparni Ark @ 25 l/ha at 20 and 40 DAS
Date of sowing:	November, 2024
Date of harvesting:	March, 2025
Source of technology:	"Kam lagat Prakratic Kheti" Book, Acharya Devvrat, 2019
Characteristics of technology:	Beejamrit is an ancient, sustainable agriculture technique. It is used for seeds, seedlings or any planting material. It is effective in protecting young roots from fungus. Beejamrit is a fermented microbial solution, with loads of plant-beneficial microbes, and is applied as seed treatment. Ghanjeevamrit is used for increasing soil fertility. Ghanjeevamrit is prepare by mixing 100 kg of indigenous cow dung (air dried for 4-5 days), add 1 kg of jaggery, 1 kg pulse flour, 3 litres of indigenous cow urine and add 250 g of soil from undisturbed bunds/ forest. Jeevamrit is a natural liquid fertilizer. It is made by mixing water, dung (in the form of manure) and urine from cows with some mud from the same area as the manure will be applied in later. Food is then added to speed the growth of microbes: jaggery or flour can be used. Dashparni ark and Neem Astra are used to control pests and diseases. Weeds are considered essential and used as living or dead mulch layer. multi-cropping is encouraged over single crop method.
Name of Crop/Enterprises:	Greengram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

5.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of IDM module against purple blotch of kharif onion (IInd Year)
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of kharif onion due to heavy incidence of purple blotch disease
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Indofil M-45 @ 1000g/h at the time of infestation
T2 –Recommended Practice.	Seed treatment + COC 50% EC @ 2gm/lt of water Ist at 30 DAT & IInd at 40 DAT
T3. Recommended Practice.	Seed treatment + hexaconazol 5% + Captan 70% WP @ 750gm/ha. Ist at 30 DAT & IInd at 40 DAT
Date of sowing:	June 2024
Date of harvesting:	October 2024
Source of technology:	DOGR, Pune, Maharashtra 2015
Characteristics of technology:	COC 50% EC is a copper based broad spectrum fungicide which controls the fungal as well as bacterial diseases by its contact action. It also effectively controls the fungus resistant to other fungicides.
	Hexaconazol 5% + Captan 70% WP is a broad-spectrum fungicide that is effective on fruits and vegetables as well as other crops against powdery mildew, anthracnose, late blight, early blight, downy mildew, and grey mildew
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

6.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of foliar spray of alpha naphthenic acetic acid for control of flower drop in chilli (IInd Year)
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield (25%) due to flower drop in chilli. Affected area 350 ha.
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 plant growth regulator
T2 –Recommended Practice.	Foliar spray of NAA (50 ppm) at 45 DAT
T3. Recommended Practice.	Foliar spray of NAA (50 ppm) at 45 and 60 DAT
Date of sowing:	June 2024
Date of harvesting:	October 2024
Source of technology:	BCKV, Mohanpur, 2017
Characteristics of technology:	Naphthenic acetic acid - Helps in fruit setting and enlargement. It is used to prevent flower and fruit drop
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

7.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of management practices to control of sucking pest in watermelon (Ist Year)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of watermelon due to attack of sucking pest. Total acreage approx 1000ha. & pod borer is serious problem in pigeon pea cultivation (more than 75% affected area).

Thematic area:	Insect 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.	Use of pesticide at the time of infestation
T2 –Recommended Practice.	Use of yellow sticky trap @ 5/ acre followed by one spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
T3. Recommended Practice.	Use of yellow and blue sticky trap @ 3:3/acre followed by two spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
Date of sowing:	November, 2024
Date of harvesting:	March, 2025
Source of technology:	Dr. Satyagopal Korlapati, IAS, Director General, Department of Agriculture & Coorporation ,Govt of India
Characteristics of technology:	Spiromesifen 22.9% SC is active against all the developmental stages of mites and whitefly pests resulting in long-lasting persistent control of resistant mites and whiteflies. ADVANTAGES : The lack of cross-resistance to commercial products makes Spiromesifen a valuable tool for mite and whitefly resistance management.
	Blue sticky traps are sometimes used for thrips because this color is more attractive to thrips. Howeverinsects are more difficult to discern and count in blue traps. Yellow sticky traps attract a wider variety of pest insects and are recommended for most situations
Name of Crop/Enterprises:	Watermelon
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

8.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of Natural Farming technique in Onion (IInd year)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	High cost of production due to chemical spray against sucking pest
Thematic area:	Natural Farming
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.	Chemical Farming
T2 –Recommended Practice.	Seed treatment with beejamrit while transplanting , Application of Jeevamrut @ 21 days interval or spraying directly to the crops. Soil mulching with Acchadhan. I spray of Neemastra @ 5lit/pump II Spray of Agniastra @ 5lit/pump III Spray of Dashparni ark @ 5lit/pump
Date of sowing:	December, 2024
Date of harvesting:	March, 2025
Source of technology:	Kam lagat Prakratic Kheti" Book, Acharya Devvrat, 2019
Characteristics of technology:	Neemastra is very easy to prepare and is an effective pest repellant and bio insecticide for Natural Farming. Agni Astra is complete organic pesticide prepared with the Indian traditional methodology. Agni Astra acts as a manure for the soil and plants and it can remove all kind of pests,insects and also increase the richness of the soil. Dashparni extract is very effective in controlling all kinds of insect pests and diseases. It is prepared using all-natural ingredients. It strengthens the plant's overall

	immunity; it is antiviral and antifungal.
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

9. Name of Discipline	Plant Protection
Title of on farm trial:	Assessment of Girdle Beetle Managerment in Soybean Crop. (Ist Year)
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean about 30-40 % losses due to heavy infestation of Girdle beetle
Thematic area:	Insect & 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.	Profenophos 50% EC @ 1.5 lit /ha at 30 days after sowing
T2 –Recommended Practice.	Chlorantraniliprole 18.5 % SC @ 150 ml/ha at 35 DAS
T3. Recommended Practice.	Thiacloprid 21.7 % SC @ 750 ml/ha at 35 DAS
Date of sowing:	June, 2024
Date of harvesting:	September, 2024
Source of technology:	CIB, 2016
Characteristics of technology:	Chlorantraniliprole 18.5 % SC controls caterpillars and larvae of moths and butterflies, as well as some beetles and "true" bugs such as aphids and spittlebugs. It gives protection for a longer duration. It can be used on a variety of crops such as sugarcane, tomatoes, cotton, pigeon peas, rice, etc.
	Thiacloprid 21.7 % SC is used as a foliar spray for the control of sucking insects like Aphid, Thrips, Jassid, white Fly on cotton and stemborer on Paddy, Thrips on Chilli, Shoot and Fruit borer on Brinjal, Mosquito bug on tea, Girdle beetle on soybean and Thrips on Apple.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

10.Name of Discipline	Plant Protection
Title of on.farm trial:	Assessment of pod borer management in soybean by natural farming technique.(Ist Year)
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Soybean due to pod borer infestation and increase in cultivation cost.
Thematic area:	Insect 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 Prophenophos + Cypermethrein 1000ml/ha
T2 –Recommended Practice.	Ist spray of Brahmastra@15-20 lit/ha at the time of flowering stage and 2nd spray of agniastra @15-20 lit/ha in time of pod formation and milking stage , interval of 15 days

Date of sowing:	June, 2024
Date of harvesting:	September, 2024
Source of technology:	DSR, Indore M.P. & RVSKVV Publication No. 141/2022
Characteristics of technology:	Brahmastra is a natural insecticide prepared from leaves which have specific alkaloids to repel pests. It controls all sucking pests and hidden caterpillars that are present in pods and fruits. Agni Astra is complete organic pesticide prepared with the Indian traditional methodology. Agni Astra acts as a manure for the soil and plants and it can remove all kind of pests,insects and also increase the richness of the soil.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

11.Name of Discipline	Plant Protection
Title of on.farm trial:	Assessment of IPM technology for thrips management in Garlic (Ist Year)
Year/Season:	2024/ Rabi
Farming situation:	Rained
Problem diagnosis:	Low yield due to heavy infestation of thrips
Thematic area:	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.	Use of dimethoate 30EC (Rogar)
T2 –Recommended Practice.	Use of blue sticky card + reduction in nitrogen fertilizer + fipronil @ 600 ml/ha.
T3. Recommended Practice.	Use of blue sticky card + reduction in nitrogen fertilizer + spinosad @ 100 ml/ha.
Date of sowing:	November, 2023
Date of harvesting:	March, 2024
Source of technology:	DOGR, Pune
Characteristics of technology:	Fipronil is a broad use insecticide that belongs to the phenylpyrazole chemical family. Fipronil is used to control ants, beetles, cockroaches, fleas, ticks, termites, mole crickets, thrips, rootworms, weevils, and other insects. Fipronil is a white powder with a moldy odor.
	Spinosad is a natural substance made by a soil bacterium that can be toxic to insects. It is a mixture of two chemicals called spinosyn A and spinosyn D. It is used to control a wide variety of pests. These include thrips, leafminers, spider mites, mosquitoes, ants, fruit flies and others.
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

12.Name of Discipline	Plant Protection
Title of on.farm trial:	Assessment of management practice for Powdery Mildew in Coriander (IInd year)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of coriander seed due to heavy infection of Powdery Mildew
Thematic area:	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.	Sulphur 80 % WP @ 2 kg/ha at 45 DAS
T2 –Recommended Practice.	Tebuconazole 25.9 EC@ 750 ml /ha at 30 & 45 DAS
T3. Recommended Practice.	Propiconazole 25 % E.C. @ 750 ml /ha at 30 & 45 DAS
Date of sowing:	November, 2024
Date of harvesting:	February2025
Source of technology:	Journal of Spice and Aromatic Crops Vol. 26(1) : 59-62 (2017)
Characteristics of technology:	Tebuconazole is effective against various fungal diseases in crops like Rice, Chillies, Groundnut, Fruits, Vegetables and other field crops. It is a protective, curative and eradicative fungicide. It inhibit the reproduction and further growth of the fungi
	Propiconazole is Highly effective in controlling deadly diseases like bunts, blights and leaf spots Karnal Bunt , Brown Rust , Black Rust , Yellow Rust , Leave Rust Sheath Blight , Black Dirty Grain Tikka Disease , Rust Blister Sigatoka Leaf Spots infecting in Crops like Wheat Paddy Groundnut Tea Soybean ...
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

13.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assessment of Pearl millet varieties AHB-1200 and Dhanshakti (IInd year)
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low production of pearl millet due to use of traditional variety.
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.	Local Variety
T2 –Recommended Practice.	AHB 1200
T3. Recommended Practice.	Dhanshakti
Date of sowing:	July 2024
Date of harvesting:	October 2024
Source of technology:	VNMKVV,Parbhani (2018 & 2014)
Characteristics of technology:	AHB 1200 (ICMH 1202) - Fe 89 & zinc 45 ppm
	Dhanshakti (ICTP. 8203) - Fe 76-91 ppm & zinc 39-48 ppm
Name of Crop/Enterprises:	Pearl Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

14.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assessment of Rabi Sorghum Variety (Ist year)
Year/Season:	2024/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	No practice of sorghum in rabi

Thematic area:	Crop Diversification
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.	Advanta -537
T2 –Recommended Practice.	Phule Yashomati (RSV 1910)
T3. Recommended Practice.	Phule Purva (RSV 2371)
Date of sowing:	October 2024
Date of harvesting:	January 2025
Source of technology:	MPKV, Rahuri Maharastra (2021 & 2022)
Characteristics of technology:	Phule Yashomati (RSV 1910) : Productivity Grain Yield : 9.2 q/ha. Fodder Yield: 42.6 q/ha
	Phule Purva (RSV 2371) : Productivity. Grain Yield : 20-25 q/ha. Fodder Yield: 55-60 q/ha.
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

15.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assessment of Chickpea improved Variety (Ist Year)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chickpea due to use of old variety JG-130
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.	JG-130
T2 –Recommended Practice.	RVG-204
T3. Recommended Practice.	JG-36
Date of sowing:	October, 2023
Date of harvesting:	March 2024
Source of technology:	RVSKVV Gwalior 2016
Characteristics of technology:	RVG – 204. Yield : 20-25q/ha, Maturity : 111 days , Wilt tolerant
	JG – 36. Yield : 18-20q/ha, Maturity : 110-120 days
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

16.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assessment of High Yielding Variety of Coriander (IInd Year)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of coriander due to use of local variety
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.	Indori Dhaniya
T2 –Recommended Practice.	ACR-1
T3. Recommended Practice.	ACR-2
Date of sowing:	November, 2024
Date of harvesting:	February2025
Source of technology:	NRCSS Ajmer 2015 & 2017
Characteristics of technology:	ACR-1 – Stem gall resistant variety. Plant height of 113.9 cm The variety is also suitable for seed & green leaf production. Av. Yield 14 q/ hac
	ACR-2 –Suitable for seed production, seed shape is ovule suitable for export Avg yield 16 q/ ha resistant to powdery mildew
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

17.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of use of ITK technique (mixture of ajwain, fenugreek, sugar & pigeon pea) to increase milk production in cattle (Ist Year)
Year/Season:	2024/ Kharif
Farming situation:	All season
Problem diagnosis:	Low milk production
Thematic area:	Indigenous Technical Knowledge & Livestock Production 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.	Wheat Choker 8 kg/day animal + dry fodder 10 kg /day/animal
T2 –Recommended Practice.	Use of 50g ajwain, 150g fenugreek, 50g sugar & 500g pigeon pea in 1 lt. water give animal twice a day for 90 days
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ITK in Agriculture Document-2, Page no. 331
Characteristics of technology:	ITK is specifically concerned with actual application of the thinking of the local people in various operations of agriculture and allied areas. The basic characteristics of the ITKs provide for conservation and efficient utilization of resources by being eco-friendly, less capital intensive, cost effective, and efficient byproduct and waste recycling and use.
Name of Crop/Enterprises:	Cattle
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

18.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of tylosine sulphate for control of Chronic respiratory Disease (CRD) in broiler poultry (Ist year)
Year/Season:	2024/ Kharif
Farming situation:	Deep Litter System

Problem diagnosis:	High mortality (30%) of broiler due to CRD in broiler poultry ,Affected birds 60%
Thematic area:	Disease management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	No control measures for CRD in broiler birds
T2 –Recommended Practice.	Use of Tylosine Sulphate @2 gm /lit of water for three days thereafter 1 gm/liter of water for three days thereafter 1 gm/liter of water for four days
T3- Recommended Practice.	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CARI,Izzatnagar(Bareli) 2017
Characteristics of technology:	Tylosin or tetracyclines have been commonly used to reduce egg transmission or as prophylactic treatment to prevent respiratory disease in broilers and turkeys. Antibiotics may alleviate the clinical signs and lesions but do not eliminate infection.
Name of Crop/Enterprises:	Poultry
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

19.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of bypass protein on milk production in dairy Buffalo (IInd Year)
Year/Season:	2024/ Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low milk yield and income due to conventional ration feeding
Thematic area:	Rural smallholder dairy production system Feeding 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.	T1- Farmers Practice use of choker & cakes (conventional feed)
T2 –Recommended Practice.	T2- Use of Bye- Pass protein @ 50 gm+ With concentrate feed per animal per day after calving for three month
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IVRI, Izatnagar – 2009 & NDDB, India 2021
Characteristics of technology:	Bye- Pass protein : Increase in efficiency of utilization of proteins. Increase in availability of essential amino acids. Increase the supply of limiting amino acids like lysine and methionine to the small intestine. Improvement in milk production
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

20.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of chelated trace minerals supplement on fertility and milk production in Indigenous cattle (IInd Year)
Year/Season:	2024/ Rabi

Farming situation:	Rainfed
Problem diagnosis:	Low fertility (60%) and milk production (20%) from Indigenous cattle due to lack of trace minerals. Animal affected 70%
Thematic area:	Rural smallholder dairy production system & Feeding 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.	Traditional Practice of feeding
T2 –Recommended Practice.	Supplement of trace minerals @ 40 gm / animal / day after calving up to three months
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal 2012
Characteristics of technology:	Chelated trace minerals supplement : Supplementations of trace minerals improve conception rate & productivity in dairy cows in different situations. Zinc (Zn): Numerous studies have indicated that zinc may be the most widely deficient trace mineral. A component of more than 300 enzymes and hormones, zinc plays an important role in metabolism
Name of Crop/Enterprises:	Indigenous Dairy cattle
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

21. Name of Discipline	Agronomy (Dr.S.K. Singh)
Crop/Enterprise	Wheat
Title of on-farm trial:	Assessment of Nano Urea on growth and yield attributes of wheat (IInd Year)
Year/Season:	2024/ Rabi
Farming situation:	Clay loam –Irrigated
Problem diagnosis:	Low yield of wheat due to low nitrogen use efficiency
Thematic area:	Irrigated –Integrated 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-	T1- 10% Basal +90% Broadcasting (250 kg Urea)
T2 –Recommended Practice-	T2- 100% through Urea (100 kg N), 25% Basal, 25% Tillering, Jointing & Flowering
T3- Recommended Practice-	T3- 50% through Urea as basal dose + Two foliar spray of Nano urea @ 2.0 ml/liter water growth and panicle formation
Date of sowing:	November, 2023
Date of harvesting:	April, 2024
Source of technology:	IFFCO
Characteristics of technology:	T2- 100% through Urea (100 kg N) T3- T3- 50% through Urea as basal dose + foliar spray of Nano Urea @ 2.0 ml/liter wa growth and panicle formation
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

22.Name of Discipline	Agri. Extension
Title of on-farm trial:	Study on effective extension methods for TOT of soybean variety JS-2069
Year/Season:	Kharif/ 2024
Farming situation:	Irrigated
Problem diagnosis:	Lack of awareness
Thematic area:	TOT
No of trials:	-
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
T2 –Recommended Practice.	Training & Extension Activities
T3 –Recommended Practice.	OFT
Date of sowing:	July 2024
Date of harvesting:	October 2024
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	ToT means translating the research findings or technologies into actual practice in the farms by recipients or farmers themselves. It implies the trial, evaluation and consequent adoption of technologies generated
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

23.Name of Discipline	Agri. Extension
Title of on-farm trial:	Study on effective extension methods for TOT of soybean variety JS-2098
Year/Season:	Kharif/ 2024
Farming situation:	Irrigated
Problem diagnosis:	Lack of awareness
Thematic area:	TOT
No of trials:	-
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
T2 –Recommended Practice.	Training & Extension Activities
T3 –Recommended Practice.	Demonstration
Date of sowing:	July 2024
Date of harvesting:	October 2024
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	ToT means translating the research findings or technologies into actual practice in the farms by recipients or farmers themselves. It implies the trial, evaluation and consequent adoption of technologies generated
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

24.Name of Discipline	Agri. Extension
Title of on-farm trial:	Study on effective extension methods for TOT of wheat variety DBW-187
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Lack of awareness
Thematic area:	TOT
No of trials:	-
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
T2 –Recommended Practice.	Training & Extension Activities
T3 –Recommended Practice.	Demonstration
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	ToT means translating the research findings or technologies into actual practice in the farms by recipients or farmers themselves. It implies the trial, evaluation and consequent adoption of technologies generated
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

25.Name of Discipline	Agri. Extension
Title of on-farm trial:	Study on effective extension methods for TOT of onion variety Bhima Shakti/ Red
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Lack of awareness
Thematic area:	TOT
No of trials:	-
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
T2 –Recommended Practice.	Training & Extension Activities
T3 –Recommended Practice.	Demonstration
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	ToT means translating the research findings or technologies into actual practice in the farms by recipients or farmers themselves. It implies the trial, evaluation and consequent adoption of technologies generated
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

22. Information about Extension OFT: Kharif

Title	Study on effective extension methods for TOT of soybean variety JS-2069	
Season & Year	Kharif/ 2024	
Problem identified	Lack of awareness	
Thematic Area	EXT & TOT	
Farming situation	Irrigated	
Name of Technology Intervention under study	**T_2**	Training & Extension Activities
	T_3	Demonstration
Farmers Practice (T_1)	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc	
No. of replication (Farmers)	25	

Results / findings

Performance indicators/ parameters	**Frequency**	**Unit/ details (Response)**								
		High	**%**	**Rank**	**Medium**	**%**	**Rank**	**Low**	**%**	**Rank**
Gain in Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Retention of Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Change in Attitude (%)	25	-	-	-	-	-	-	-	-	-
Adoption of Technology (%)	25	-	-	-	-	-	-	-	-	-

23. Information about Extension OFT: Kharif

Title	Study on effective extension methods for TOT of soybean variety JS-2098	
Season & Year	Kharif/ 2024	
Problem identified	Lack of awareness	
Thematic Area	EXT & TOT	
Farming situation	Irrigated	
Name of Technology Intervention under study	**T_2**	Training & Extension Activities
	T_3	Demonstration
Farmers Practice (T_1)	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc	
No. of replication (Farmers)	25	

Results / findings

Performance indicators/ parameters	**Frequency**	**Unit/ details (Response)**								
		High	**%**	**Rank**	**Medium**	**%**	**Rank**	**Low**	**%**	**Rank**
Gain in Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Retention of Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Change in Attitude (%)	25	-	-	-	-	-	-	-	-	-
Adoption of Technology (%)	25	-	-	-	-	-	-	-	-	-

24. Information about Extension OFT: Rabi

Title	Study on effective extension methods for TOT of wheat variety DBW-187	
Season & Year	Rabi/ 2024	
Problem identified	Lack of awareness	
Thematic Area	EXT & TOT	
Farming situation	Irrigated	
Name of Technology Intervention under study	**T_2**	Training & Extension Activities
	T_3	Demonstration
Farmers Practice (T_1)	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc	
No. of replication (Farmers)	25	

Results / findings

Performance indicators/ parameters	**Frequency**	**Unit/ details (Response)**								
		High	**%**	**Rank**	**Medium**	**%**	**Rank**	**Low**	**%**	**Rank**
Gain in Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Retention of Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Change in Attitude (%)	25	-	-	-	-	-	-	-	-	-
Adoption of Technology (%)	25	-	-	-	-	-	-	-	-	-

25. Information about Extension OFT: Rabi

Title	Study on effective extension methods for TOT of onion variety Bhima shakti/ Red	
Season & Year	Rabi/ 2024	
Problem identified	Lack of awareness	
Thematic Area	EXT & TOT	
Farming situation	Irrigated	
Name of Technology Intervention under study	**T_2**	Training & Extension Activities
	T_3	Demonstration
Farmers Practice (T_1)	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc	
No. of replication (Farmers)	25	

Results / findings

Performance indicators/ parameters	**Frequency**	**Unit/ details (Response)**								
		High	**%**	**Rank**	**Medium**	**%**	**Rank**	**Low**	**%**	**Rank**
Gain in Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Retention of Knowledge (%)	25	-	-	-	-	-	-	-	-	-
Change in Attitude (%)	25	-	-	-	-	-	-	-	-	-
Adoption of Technology (%)	25	-	-	-	-	-	-	-	-	-

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 (Rs.35000)	Varietal Evaluation	Demonstration of soybean variety JS-2098	Seed	Kharif 2024	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
2	Pigeonpea (Rs. 5000)	Varietal Evaluation	Demonstration of pigeonpea variety Godavari (BDN 2013-41)	Seed	Kharif 2024	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
3	Wheat (10000)	Fertilizer Management	Demonstration of bio fertilizer NPK in wheat	Bio Fertilizer	Rabi 2024	08	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
4	Wheat (Rs.10000)	Fertilizer Management	Demonstration of Nano DAP in wheat	Nano DAP	Rabi 2024	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
5	Soybean (Rs. 8000/-)	Cost & Drudgery Reduction	Demonstration of Khurpi	Khurpi	Kharif 2024	-	25	Manual weeding per hours area,& Weeding cost/ha..
6	Vegetables & Fruits (Rs.7000/-)	Nutritional security & Income Generation	Demonstration of nutritional kitchen garden	Kitchen Garden Kit & Nutritional plants	Kharif 2024	0.5	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
7	Papaya (Rs.20000)	Varietal Evaluation	Demonstration on Papaya Red Lady hybrid variety – Taiwan	Papaya seedling	Kharif 2024	0.3	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

8	Carrot (Rs.10000)	Varietal Evaluation	Demonstration on carrot variety Pusa Rudhira	Seed	Rabi 2024	0.5	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
9	Broccoli (Rs.12000)	Varietal Evaluation	Demonstration on Pusa Broccoli variety KTS-1	Broccoli Seed	Rabi 2024	0.5	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
10	Pigeon Pea (Rs.10000)	IDM	Demonstration for management of Fusarium wilt disease in Pigeon Pea	Trichoderma + Seed	Kharif 2024	02	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
11	Maize (Rs.10000)	IPM	Demonstration for management of fall army worm in maize	Insecticide	Kharif 2024	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
12	Chickpea (Rs.18000)	IDM	Demonstration for management of Fusarium wilt disease in chickpea	Trichoderma + Seed	Rabi 2024	02	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
13	Watermelon (Rs. 10000)	IPM	Demonstration on management practices to control of sucking pest in watermelon	Insecticide	Rabi 2024	02	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
14	Sorghum (Rs. 30000)	Varietal Evaluation	Demonstration of biofortified variety of sorghum Parbhani Shakti I (ICSR 14001)	Seed	Kharif 2024	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
15	Maize (Rs. 12000)	Fertilizer Management	Demonstration of nutrient management in rabi maize	Fertilizer (Nitrogen)	Rabi 2024	02	05	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
16	Wheat (Rs. 20000)	Varietal Evaluation	Demonstration bio fortified variety DBW-187 (karan vandana)	Seed	Rabi 2024	04	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
17	Green Gram (Rs. 18000)	Varietal Evaluation	Demonstration of high yielding variety of Green Gram (Shikha)	Seed	Zaid 2025	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
18	Buffalo (Rs. 10000)	Disease management	Demonstration of control of Mastitis in Buffalo	Vitamin E and Selenium	Kharif 2024	10 Animal	10	% reduction in Mastitis and Milk Yield(Lit/day/Buffalo)
19	Cow (Rs. 10000)	Feed Management	Demonstration of Bypass Fat in Dairy Cattle	Bypass fat	Kharif 2024	10 Animal	10	Milk yield /day /animal, Net return, B:C ratio
20	Quail (Rs. 20000)	Production Management	Demonstration of Japanese Quail	Japanese Quail	Rabi 2024	30 birds/farmer	10	BW/bird, B:C Ratio
21	Buffalo (Rs. 7000)	Fodder Manage	Demonstration of Azolla in	300 micron	Rabi 2024	-	10	Milk yield /day /animal, Net return , B:C ratio

		ment	Buffalo	black polythene sheet 12*10 and 1 kg azolla culture/farmer				
22	Pearl Millet (Rs.6000)	Varietal Evaluation	Demonstration on Bio fortified Pearl millet variety AHB-1269	Pearl millet s Seed	Kharif 2024	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
23	Vegetables & Fruits (Rs.7000/-)	Nutritional security & Income Generation	Demonstration of nutritional kitchen garden	Kitchen Garden Kit & Nutritional plants	Rabi 2024-25	0.5	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
24	Wheat (Rs.20000)	Varietal evaluation	Demonstration of Wheat variety HI – 1634	Seed	Rabi 2024	04	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
25	Banana (Rs 5000)	Waste Decomposer	Demonstration of waste decomposer in banana	Waste Decomposer	Rabi 2023-24	10	25	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

Detail of FLDs

1. Discipline	Agronomy
Crop	Soybean
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration of soybean variety JS-2098
Critical inputs	Seed
Season and year	Kharif, 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : JS-2098. Maturity in 96-98 days. Yield 25-28 qtl./ha. Resistant to YMV & Charcoal rot
	Local Check/ Farmer Practice: JS 335
Source of Technology	JNKVV, Jabalpur (2018)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	3500
Total cost (include cost for transportation, procurement, field board/banner cost)	35000

2. Discipline	Agronomy
Crop	Pigeonpea
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration of pigeonpea variety Godavari (BDN 2013-41)
Critical inputs	Seed
Season and year	Kharif, 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Godavari resistant to wilt, sterility mosaic diseases and high protein content Maturity : 160-165 days

	Yield : 24q/ha
	Local Check/ Farmer Practice: Rajeev Lochan
Source of Technology	Vasantarao Naik Marathada Krishi Vidyapeeth (ARS Badnapur, Maharastra) - 2023
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	500
Total cost (include cost for transportation, procurement, field board/banner cost)	5000

3. Discipline	Agronomy
Crop	Wheat
Thematic area	Nutrient Management
Technology for demonstration	Demonstration of bio fertilizer NPK in wheat
Critical inputs	Bio-fertilizer NPK
Season and year	Rabi, 2024
Area (ha)	08
No. of farmers/ demonstration	20
Data on parameter in relation to technology demonstrated	Demonstration : RDF Bio-fertilizer NPK (BIO-NPK LIQUID (Biofertilizer) is a blend of microbes capable of fixing nitrogen, solubilizing phosphate, and mobilizing potash to provide well-balanced nutrition to crops. It significantly reduces the need for chemical nutrient additives, resulting in healthy plants, abundant crops, and lower input costs)
	Local Check/ Farmer Practice: NPK
Source of Technology	JNKVV, Jabalpur (2018)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	500
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

4. Discipline	Agronomy
Crop	Wheat
Thematic area	Nutrient Management
Technology for demonstration	Demonstration of Nano DAP in wheat
Critical inputs	Nano DAP
Season and year	Rabi, 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Apply Nano DAP (Liquid) @ 250 ml - 500 ml per acre per spray. Required water quantity for spray varies with the type of sprayers. General requirement of Nano DAP liquid, sprayer wise is given as below: **Knapsack Sprayers:** 2-3 caps (50-75 ml) of Nano DAP liquid per 15-16 liter tank; 8-10 tanks normally cover 1 acre crop area **Boom / Power Sprayers:** 3-4 caps (75-100 ml) of nano DAP per 20-25 liter tank; 4-6 tanks normally cover 1 acre crop area **Drones:** 250 -500 ml quantity of nano DAP liquid per tank of 10-20 liter volume to cover 1 acre area
	Local Check/ Farmer Practice: DAP
Source of Technology	IFFCO, 2023
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

5. Discipline	Agronomy - Dr.S.K.Singh
Crop	Soybean
Thematic area	Cost & Drudgery Reduction

Technology for demonstration	Demonstration of Khurpi
Critical inputs	Khurpi
Season and year	Kharif, 2024
Area (ha)	-
No. of farmers/ demonstration	25
Data on parameter in relation to technology demonstrated	Demonstration : Manual Weeding cost/ha..
	Local Check/ Farmer Practice: Darati
Source of Technology	Division of Ag. Engineering, IARI, New Delhi
Parameters identified	Manual weeding per hours area,& Weeding cost/ha..
Cost of input	8000
Total cost (include cost for transportation, procurement, field board/banner cost)	2000

6. Discipline	Horticulture
Crop	Vegetable & Fruits
Thematic area	Nutritional security & Income Generation
Technology for demonstration	Demonstration of nutritional kitchen garden
Critical inputs	Kitchen Garden Kit & Nutritional plants
Season and year	Kharif 2024
Area (ha)	0.5
No. of farmers/ demonstration	20
Data on parameter in relation to technology demonstrated	Demonstration : Nutritional Kitchen Garden is a low cost sustainable approach for reducing malnutrition, increasing awareness of vegetable production, increasing working hours and achieving food, nutrition and economic security.
	Local Check/ Farmer Practice: No vegetable production
Source of Technology	IIVR, Varanasi (U.P.)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	350
Total cost (include cost for transportation, procurement, field board/banner cost)	7000

7. Discipline	Horticulture
Crop	Papaya
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration on Papaya Red Lady hybrid variety – Taiwan
Critical inputs	Papaya seedling
Season and year	Kharif 2024
Area (ha)	0.3
No. of farmers/ demonstration	20
Data on parameter in relation to technology demonstrated	Demonstration : Papaya Red Lady hybrid variety – Taiwan plants start their flowering from 4 months and the first production in 7 months, overall it is an 18-month crop. The plant sapling height is about 5-6 inches. On average 60kg is the per plant production
	Local Check/ Farmer Practice : Known You Seed EXP - 15
Source of Technology	2013
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	20000

8. Discipline	Horticulture
Crop	Carrot
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration on carrot variety Pusa Rudhira

Critical inputs	Seed
Season and year	Rabi 2024
Area (ha)	0.5
No. of farmers/ demonstration	20
Data on parameter in relation to technology demonstrated	Demonstration : Pusa Rudhira is also nutritionally rich as compared to other carrot varieties. The variety was tested to have higher levels of carotenoid (7.41mg) and phenols (45.15 mg) per 100 g. Yield 250-300q/ha. Matures in 70-80 days after planting.
	Local Check/ Farmer Practice: Brillyance F1 Hybrid
Source of Technology	IARI Pusa, Delhi
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	500
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

9. Discipline	Horticulture
Crop	Broccoli
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration on Broccoli variety Pusa Broccoli KTS-1
Critical inputs	Seed
Season and year	Rabi 2024
Area (ha)	0.5
No. of farmers/ demonstration	20
Data on parameter in relation to technology demonstrated	Demonstration : Pusa Broccoli KTS-1 the highest plant height (66.7 and 66.2 cm), stem diameter (3.5 and 3.5 cm),plant spreading (E-W and N-S) (61.3, 62.5 and 54.2, 55.3 cm), leaves per plant (23.7 and 23.9), length of leaves (51.1 and 51.1cm) and width of leaves (30.3 and 30.6 cm). It takes about 85-95 days from transplanting to harvest.
	Local Check/ Farmer Practice: Saki Seeds – Green Sakata Broccoli
Source of Technology	IARI Pusa, Delhi (2018)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	600
Total cost (include cost for transportation, procurement, field board/banner cost)	12000

10. Discipline	Plant Protection
Crop	Pigeon Pea
Thematic area	IDM
Technology for demonstration	Demonstration for management of Fusarium wilt disease in Pigeon Pea
Critical inputs	Trichoderma + Seed
Season and year	Kharif 2024
Area (ha)	02
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Use of Trichoderma for seed and soil treatment to control fusarium wilt disease
	Local Check/ Farmer Practice: No use of trichoderma
Source of Technology	IIPR Kanpur & Research Paper Journal of Food Legumes Year 2020 Vol. 33 Issue: 2 Pg 123-126
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

11. Discipline	Plant Protection
Crop	Maize
Thematic area	IPM

Technology for demonstration	Demonstration for management of fall army worm in maize
Critical inputs	Insecticide
Season and year	Kharif, 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : I - spray of azadirachtin 1500 ppm @ 5ml/l at the time of germination (first stage crop) & II – spray of thaomethaxzame 12.6% + lambda cyhalothrin 9.5% @ 0.5 ml/l at the time of second stage crop (growth to harvest)
	Local Check/ Farmer Practice: Use of pesticide at the time of infestation
Source of Technology	ICAR – IIMR, Ludhiana , 2018-19
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

12. Discipline	Plant Protection
Crop	Chickpea
Thematic area	IDM
Technology for demonstration	Demonstration for management of Fusarium wilt disease in chickpea
Critical inputs	Trichoderma + Seed
Season and year	Rabi 2024
Area (ha)	02
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Use of Trichoderma for seed and soil treatment to control fusarium wilt disease
	Local Check/ Farmer Practice: No use of trichoderma
Source of Technology	ICAR IIPR Kanpur & Research Paper Journal of Food Legumes Year 2020 Vol. 33 Issue: 2 Pg 123-126
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1800
Total cost (include cost for transportation, procurement, field board/banner cost)	18000

13. Discipline	Plant Protection
Crop	Watermelon
Thematic area	IPM
Technology for demonstration	Demonstration on management practices to control of sucking pest in watermelon
Critical inputs	Insecticide + Trap
Season and year	Rabi 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Use of yellow and blue sticky trap @ 40 : 10/ acre followed by two spray during the infestation period. (Ist acetamaprid 20% SP @ 0.5gm/lt & 2nd Spiromesifen 22.9% SC @ 1.5 ml/lt at 15 days interval)
	Local Check/ Farmer Practice: Use of pesticide at the time of infestation
Source of Technology	IIVR, Varanasi
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

14. Discipline	Genetic & Plant Breeding
Crop	Sorghum
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration of biofortified variety of sorghum Parbhani Shakti I (ICSR 14001)
Critical inputs	Seed
Season and year	Kharif 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Parbhani Shakti 1 (ICSR 14001) : high Fe and Zn, has higher protein content and lower phytates content.
	Local Check/ Farmer Practice: Advanta - 537
Source of Technology	VNMKV ,Parbhani (2018)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

15. Discipline	Genetic & Plant Breeding
Crop	Maize
Thematic area	Nutrient Management
Technology for demonstration	Demonstration of nutrient management in rabi maize
Critical inputs	Fertilizer (Nitrogen)
Season and year	Rabi, 2024
Area (ha)	02
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration : Nitrogen application - 5 times ➢ 10% as basal dose, ➢ 20 % at 4 leaf stage, ➢ 30 % at 8 leaf stage ➢ 30 % flowering stage ➢ 10 % grain filling stage.
	Local Check/ Farmer Practice: Apply urea 2 times only which reduce the efficiency of fertilizer
Source of Technology	DMRI, New Delhi
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1800
Total cost (include cost for transportation, procurement, field board/banner cost)	18000

16. Discipline	Genetic & Plant Breeding
Crop	Wheat
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration bio fortified variety DBW-187 (karan vandana)
Critical inputs	Seed
Season and year	Rabi 2024
Area (ha)	04
No. of farmers/ demonstration	20
Data on parameter in relation to technology demonstrated	Demonstration : DBW 187 Rich in iron (43.1 ppm) in comparison to 28.0-32.0 ppm in popular varieties • Grain yield: 48.8 q/ha North Eastern Plains Zone (NEPZ), 61.3q/ ha North Western Plains Zone (NWPZ), 75.5q/ha (High fertility) • Maturity: 120 days (NEPZ), 146 days (NWPZ) & 158 days (High fertility)
	Local Check/ Farmer Practice: Lok - 1
Source of Technology	ICAR-Indian Institute of Wheat & Barley Research, Karnal. (2019)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

Cost of input	2000
Total cost (include cost for transportation, procurement, field board/banner cost)	20000

17. Discipline	Genetic & Plant Breeding
Crop	Green Gram
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration of high yielding variety of Green Gram (Shikha)
Critical inputs	Seed
Season and year	Zaid, 2025
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Shikha (IPM 410-3) Highly resistant to yellow mosaic disease and powdery mildew. Large attractive green and shining. Yields 11 - 12 q / ha. Maturity 65-70 days
	Local Check/ Farmer Practice: Sanjivani – Vishal Gold
Source of Technology	IIPR, Kanpur (2016)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	1800
Total cost (include cost for transportation, procurement, field board/banner cost)	18000

18. Discipline	Animal Husbandry
Crop	Buffalo
Thematic area	Disease management
Technology for demonstration	Demonstration of control of Mastitis in Buffalo
Critical inputs	Vitamin E and Seleniom
Season and year	Kharif 2024
Area (ha)	10
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Vitamin E and Se are essential nutrients that share common biological activities. Deficiencies in either of these micronutrients have been related in increased incidence and severity of mastitis. A known physiological consequence of alpha-tocopherol or Se deficiency is reduced neutrophil activity.
	Local Check/ Farmer Practice: No use of Vitamin E and Seleniom
Source of Technology	IVRI,2017
Parameters identified	% reduction in Mastitis and Milk Yield(Lit/day/Buffalo)
Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

19. Discipline	Animal Husbandry
Crop	Cow
Thematic area	Feed management
Technology for demonstration	Demonstration of Bypass Fat in Dairy Cattle
Critical inputs	Bypass Fat
Season and year	Kharif 2024
Area (ha)	10
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Bypass fat is rich source of energy. Besides, bypass fat is a good source of calcium. Thus, supplementation of bypass fat improves milk production, reproductive performances and body condition of animals
	Local Check/ Farmer Practice: No use of Bypass Fat
Source of Technology	NDRI,Karnal 2016
Parameters identified	Milk yield /day /animal, Net return, B:C ratio

Cost of input	1000
Total cost (include cost for transportation, procurement, field board/banner cost)	10000

20. Discipline	Animal Husbandry
Crop	Quail
Thematic area	Production Management
Technology for demonstration	Demonstration of Japanese Quail
Critical inputs	Japanese Quail
Season and year	Rabi 2024
Area (ha)	30 Bird/farmer
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : The Japanese quail provides developing countries with a stable source of animal proteins and developed countries with a suitable alternative to chicken.
	Local Check/ Farmer Practice: No production of Japanese Quail
Source of Technology	CDOP, Mumbai 2018
Parameters identified	BW/bird, B:C Ratio
Cost of input	2000
Total cost (include cost for transportation, procurement, field board/banner cost)	20000

21. Discipline	Animal Husbandry
Crop	Buffalo
Thematic area	Fodder Management
Technology for demonstration	Demonstration of Azolla in Buffalo
Critical inputs	Azolla
Season and year	Rabi 2024
Area (ha)	-
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : Azolla can be fed to animals like cow, buffalo, sheep, goat and rabbit because it is easily digestible (because to its high protein and low lignin content), increases feed efficiency, average daily gain of animals, and milk production by 15–20%.
	Local Check/ Farmer Practice: No use of azolla
Source of Technology	International journal of current Microbiology and applied sciences vol 6 Number 11 (2017)
Parameters identified	Milk yield /day /animal, Net return , B:C ratio
Cost of input	700
Total cost (include cost for transportation, procurement, field board/banner cost)	7000

22. Discipline	Agriculture Extension
Crop	Pearl Millet
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration on Bio fortified Pearl millet variety AHB-1269 Fe (MH 2185)
Critical inputs	Seed
Season and year	Kharif 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : AHB 1269 is Rich in iron (91.0 ppm) and zinc (43.0 ppm)in comparison to 45.0-50.0 ppm iron and 30.0-35.0 ppm zinc in popular varieties/hybrids • Grain yield: 31.7 q/ha • Dry fodder yield: 74.0 q/ha • Maturity: 82 days
	Local Check/ Farmer Practice: Pioneer - 86M35
Source of Technology	AICRP, Jodhpur Rajasthan (2021)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	600

Total cost (include cost for transportation, procurement, field board/banner cost)	6000

23. Discipline	Agriculture Extension
Crop	Vegetable & Fruit
Thematic area	Nutritional Security and income generation
Technology for demonstration	Demonstration of nutritional kitchen garden
Critical inputs	Kitchen Garden Kit & Nutritional plants
Season and year	Rabi 2024
Area (ha)	0.5
No. of farmers/ demonstration	20
Data on parameter in relation to technology demonstrated	Demonstration : Nutritional Kitchen Garden is a low cost sustainable approach for reducing malnutrition, increasing awareness of vegetable production, increasing working hours and achieving food, nutrition and economic security.
	Local Check/ Farmer Practice: No vegetable production
Source of Technology	IIVR, Varanasi (U.P.)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	350
Total cost (include cost for transportation, procurement, field board/banner cost)	7000

24. Discipline	Agriculture Extension
Crop	Wheat
Thematic area	Varietal Evaluation
Technology for demonstration	Demonstration of High Yielding Wheat Variety HI 1634 (Pusa Ahiliya)
Critical inputs	Seed
Season and year	Rabi 2024
Area (ha)	04
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration : HI 1634 coupled with stress tolerance to terminal heat and plasticity for sowing time with resistance to major insect pests, stem and leaf rusts. Yield 68-70 q/ha. Maturity 100-105 days
	Local Check/ Farmer Practice: LOK - 1
Source of Technology	IARI Pusa, Delhi (2021)
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Cost of input	2000
Total cost (include cost for transportation, procurement, field board/banner cost)	20000

25. Discipline	Agriculture Extension
Crop	Banana
Thematic area	Waste Decomposer
Technology for demonstration	Demonstration of waste decomposer in banana
Critical inputs	Waste Decomposer
Season and year	Rabi 2024
Area (ha)	10
No. of farmers/ demonstration	25
Data on parameter in relation to technology demonstrated	Demonstration : Waste Decomposer is developed from beneficial micro-organisms of Desi Cow Dung. It acts as a quick composter for all types of crop residue and organic waste. Also used extensively in Kitchen Gardening, Rooftop Gardening
	Local Check/ Farmer Practice: No use of Waste Decomposer
Source of Technology	IARI Pusa, Delhi
Parameters identified	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

Cost of input	200
Total cost (include cost for transportation, procurement, field board/banner cost)	5000

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	Crop Harvesting Period	200
2	Farmers Training	25	Input Distribution Perion	345
3	Media coverage	12	-	-
4	Training for extension functionaries	As per need		-

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
Buffalo (Disease Management)	Indigenous	10	10	Vitamin E and Seleniom	% reduction in Mastitis and Milk Yield(Lit/day/Buffalo)	-	-
Cow	Indigenous	10	10	Bypass fat	Milk yield /day /animal, Net return, B:C ratio	-	-
Quail	Japanese Quail	10	30	Japanese Quail	BW/bird, B:C Ratio	-	-
Azolla/Buffalo	Azolla pinnata	10	10	300 micron black polythene sheet 12*10 and 1 kg azolla culture/farmer	Milk yield /day /animal, Net return , 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	Soybean	Oilseed	High Yielding Variety (JS 2069)	Seed (As per Fund availability)	Kharif, 2024	20	50	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
2	Chickpea	Pulses	High Yielding Variety (RVG 202)	Seed (As per Fund availability)	Rabi, 2024	20	50	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
3	Groundnut	Oilseed	High Yielding Variety (KDG-128)	Seed (As per Fund	Zaid, 2025	30	75	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return

				availability)				(Rs./ha.) & Benefit Cost Ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	September, March & June	120
2	Farmers Training	03	July, April & October	175
3	Media coverage	06	-	-
4	Training for extension functionaries	-	-	-

Training (Including the sponsored and FLD training programmes):

A) ON CAMPUS

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) FARMERS & FARM WOMEN									
I Crop Production									
Cotton Production Management	01	01	13	02	15	08	02	10	25
Sugarcane Production Management	01	01	13	02	15	08	02	10	25
Balanced used of fertilizer	01	01	13	02	15	08	02	10	25
Weed management	01	01	13	02	15	08	02	10	25
Intercropping of chickpea in banana	01	01	13	02	15	08	02	10	25
Mustard Cultivation	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
II Horticulture									
Nutritional kitchen garden	01	01	13	02	15	08	02	10	25
New Plantation in orchards	01	01	13	02	15	08	02	10	25
Terrace Gardening	01	01	13	02	15	08	02	10	25
CMV disease management in banana	01	01	13	02	15	08	02	10	25
Production technology of spices	01	01	13	02	15	08	02	10	25
Strawberry Production Technique	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
III Agriculture Extension									
Soil Testing	01	01	13	02	15	08	02	10	25
Extension approaches for TOT	01	01	13	02	15	08	02	10	25
Post harvest management technology	01	01	13	02	15	08	02	10	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Soil Testing	01	01	13	02	15	08	02	10	25
Extension approaches for TOT	01	01	13	02	15	08	02	10	25
Post harvest management technology	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
IV Livestock Production and Management									
Poultry Production Management	01	01	13	02	15	08	02	10	25
Azolla production management	01	01	13	02	15	08	02	10	25
Natural farming	01	01	13	02	15	08	02	10	25
TCBT techniques	01	01	13	02	15	08	02	10	25
Vaccination & their importance in small ruminants	01	01	13	02	15	08	02	10	25
Dairy Production Management	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
V Genetics & Plant Breeding									
Minor Millets Production technology	01	01	13	02	15	08	02	10	25
Minor Millets Production technology	01	01	13	02	15	08	02	10	25
Seed production of spices	01	01	13	02	15	08	02	10	25
Seed production of wheat	01	01	13	02	15	08	02	10	25
FIR in rabi crops	01	01	13	02	15	08	02	10	25
Post harvest management of rabi crops	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
VI Plant Protection									
Sucking pest management in water melon	01	01	13	02	15	08	02	10	25
Sucking pest management in cotton	01	01	13	02	15	08	02	10	25
Mushroom Cultivation	01	01	13	02	15	08	02	10	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Wilt disease management in chickpea	01	01	13	02	15	08	02	10	25
IPM in rabi crops	01	01	13	02	15	08	02	10	25
IPM in rabi crops	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**75**	**12**	**90**	**48**	**12**	**60**	**150**
Grand Total	**36**	**36**	**468**	**72**	**540**	**288**	**72**	**360**	**900**
(B) RURAL YOUTH									
Crop production management of kharif crops	01	03	10	02	13	02	00	02	15
Nursery management of horticulture crops	01	03	10	02	13	02	00	02	15
Natural farming	01	03	10	02	13	02	00	02	15
Quality seed production of Kharif crops	01	03	10	02	13	02	00	02	15
Vermicompost Production Management	01	03	10	02	13	02	00	02	15
Natural Farming	01	03	10	02	13	02	00	02	15
TOTAL	**06**	**18**	**60**	**12**	**78**	**12**	**00**	**12**	**90**
(C) EXTENSION PERSONNEL									
Crop Production Management of kharif crops	01	01	05	05	10	05	05	10	20
Onion production technology	01	01	05	05	10	05	05	10	20
Poultry Production Management	01	01	05	05	10	05	05	10	20
Seed production technology of kharif crops	01	01	05	05	10	05	05	10	20
Pest & Disease Management of Kharif crops	01	01	05	05	10	05	05	10	20
Value Addition & Food Processing	01	01	05	05	10	05	05	10	20
TOTAL	**06**	**06**	**30**	**30**	**60**	**30**	**30**	**60**	**120**

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									
Agriculture Practice for wasteland	01	01	13	02	15	08	02	10	25
Integrated Farming	01	01	13	02	15	08	02	10	25
Resource conservation technology	01	01	13	02	15	08	02	10	25
Use of Nano Urea & DAP	01	01	13	02	15	08	02	10	25
Water Harvesting	01	01	13	02	15	08	02	10	25
Green Gram production technology	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
II Horticulture									
Value addition of banana waste	01	01	13	02	15	08	02	10	25
Fertigation technology in banana	01	01	13	02	15	08	02	10	25
CMV disease management in banana	01	01	13	02	15	08	02	10	25
Post harvest management technology in banana	01	01	13	02	15	08	02	10	25
Production technology of spices	01	01	13	02	15	08	02	10	25
Protected cultivation of vegetable crops	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
III Agriculture Extension									
Natural Farming	01	01	13	02	15	08	02	10	25
Nutritional Kitchen Garden	01	01	13	02	15	08	02	10	25
ITK	01	01	13	02	15	08	02	10	25
Natural Farming	01	01	13	02	15	08	02	10	25
Nutritional Kitchen Garden	01	01	13	02	15	08	02	10	25
ITK	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
IV Livestock Production and Management									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Feed & nutrition management	01	01	13	02	15	08	02	10	25
Green fodder production management	01	01	13	02	15	08	02	10	25
Goatery production management	01	01	13	02	15	08	02	10	25
Disease management in goatery	01	01	13	02	15	08	02	10	25
Disease management in poultry	01	01	13	02	15	08	02	10	25
Silage making	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
V Genetics & Plant Breeding									
Production Management of minor millets	01	01	13	02	15	08	02	10	25
Production Management of minor millets	01	01	13	02	15	08	02	10	25
FIR in kharif crops	01	01	13	02	15	08	02	10	25
Post harvest management of kharif crops	01	01	13	02	15	08	02	10	25
Seed production of chickpea	01	01	13	02	15	08	02	10	25
Seed production of sugarcane	01	01	13	02	15	08	02	10	25
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
VI Plant Protection									
Disease Management in Kharif Crop	01	01	13	02	15	08	02	10	25
Disease Management in Kharif Crop	01	01	13	02	15	08	02	10	25
Drone Technology	01	01	13	02	15	08	02	10	25
Insect Pest Management in Kharif Crop	01	01	13	02	15	08	02	10	25
Soil & Seed borne disease management	01	01	13	02	15	08	02	10	25
Insect Pest Management in Rabi Crop	01	01	13	02	15	08	02	10	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	**06**	**06**	**78**	**12**	**90**	**48**	**12**	**60**	**150**
Grand Total	**36**	**36**	**468**	**72**	**540**	**288**	**72**	**360**	**900**
(B) RURAL YOUTH									
Crop Production Management of Rabi crops	01	03	10	02	13	02	00	02	15
Terrace Gardening	01	03	10	02	13	02	00	02	15
Dairy Production Management	01	03	10	02	13	02	00	02	15
Quality seed production of rabi crops	01	03	10	02	13	02	00	02	15
Vermicompost Production Management	01	03	10	02	13	02	00	02	15
Natural Farming	01	03	10	02	13	02	00	02	15
TOTAL	**06**	**18**	**60**	**12**	**78**	**12**	**00**	**12**	**90**
(C) EXTENSION PERSONNEL									
Crop Production Management of rabi crops	01	01	05	05	10	05	05	10	20
Raising additional income through banana intercropping	01	01	05	05	10	05	05	10	20
Goatery Production Management	01	01	05	05	10	05	05	10	20
Seed production technology of rabi crops	01	01	05	05	10	05	05	10	20
Pest & Disease Management of rabi crops	01	01	05	05	10	05	05	10	20
Nutritional Kitchen Garden	01	01	05	05	10	05	05	10	20
TOTAL	**06**	**06**	**30**	**30**	**60**	**30**	**30**	**60**	**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	
1. Crop Production										
April	FFW	Cotton Production Management	01	13	02	15	08	02	10	25

June	FFW	Sugarcane Production Management	01	13	02	15	08	02	10	25
August	FFW	Balanced used of fertilizer	01	13	02	15	08	02	10	25
October	FFW	Weed management	01	13	02	15	08	02	10	25
December	FFW	Intercropping of chickpea in banana	01	13	02	15	08	02	10	25
February	FFW	Mustard Cultivation	01	13	02	15	08	02	10	25
2. Plant Protection										
April	FFW	Sucking pest management in water melon	01	13	02	15	08	02	10	25
June	FFW	Sucking pest management in cotton	01	13	02	15	08	02	10	25
August	FFW	Mushroom Cultivation	01	13	02	15	08	02	10	25
October	FFW	Wilt disease management in chickpea	01	13	02	15	08	02	10	25
December	FFW	IPM in rabi crops	01	13	02	15	08	02	10	25
February	FFW	IPM in rabi crops	01	13	02	15	08	02	10	25
3. Horticulture										
April	FFW	Nutritional kitchen garden	01	13	02	15	08	02	10	25
June	FFW	New Plantation in orchards	01	13	02	15	08	02	10	25
August	FFW	Terrace Gardening	01	13	02	15	08	02	10	25
October	FFW	CMV disease management in banana	01	13	02	15	08	02	10	25
December	FFW	Production technology of spices	01	13	02	15	08	02	10	25
February	FFW	Strawberry Production Technique	01	13	02	15	08	02	10	25
4. Agriculture Extension (Capacity Building and Group Dynamics)										
April	FFW	Soil Testing	01	13	02	15	08	02	10	25
June	FFW	Extension approaches for TOT	01	13	02	15	08	02	10	25
August	FFW	Post harvest management technology	01	13	02	15	08	02	10	25
October	FFW	Soil Testing	01	13	02	15	08	02	10	25
December	FFW	Extension approaches for TOT	01	13	02	15	08	02	10	25
February	FFW	Post harvest	01	13	02	15	08	02	10	25

		management technology								
5. Genetics & Plant Breeding										
April	FFW	Minor Millets Production technology	01	13	02	15	08	02	10	25
June	FFW	Minor Millets Production technology	01	13	02	15	08	02	10	25
August	FFW	Seed production of spices	01	13	02	15	08	02	10	25
October	FFW	Seed production of wheat	01	13	02	15	08	02	10	25
December	FFW	FIR in rabi crops	01	13	02	15	08	02	10	25
February	FFW	Post harvest management of rabi crops	01	13	02	15	08	02	10	25
6. Livestock production										
April	FFW	Poultry Production Management	01	13	02	15	08	02	10	25
June	FFW	Azolla production management	01	13	02	15	08	02	10	25
August	FFW	Natural farming	01	13	02	15	08	02	10	25
October	FFW	TCBT techniques	01	13	02	15	08	02	10	25
December	FFW	Vaccination & their importance in small ruminants	01	13	02	15	08	02	10	25
February	FFW	Dairy Production Management	01	13	02	15	08	02	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**	
1. Crop Production										
May	FFW	Agriculture Practice for wasteland	01	13	02	15	08	02	10	25
July	FFW	Integrated Farming	01	13	02	15	08	02	10	25
September	FFW	Resource conservation technology	01	13	02	15	08	02	10	25
November	FFW	Use of Nano Urea & DAP	01	13	02	15	08	02	10	25
January	FFW	Water Harvesting	01	13	02	15	08	02	10	25
March	FFW	Green Gram production	01	13	02	15	08	02	10	25

		technology								
2. Plant Protection										
May	FFW	Disease Management in Kharif Crop	01	13	02	15	08	02	10	25
July	FFW	Disease Management in Kharif Crop	01	13	02	15	08	02	10	25
September	FFW	Drone Technology	01	13	02	15	08	02	10	25
November	FFW	Insect Pest Management in Kharif Crop	01	25	00	25	00	00	00	25
January	FFW	Soil & Seed borne disease management	01	13	02	15	08	02	10	25
March	FFW	Insect Pest Management in Rabi Crop	01	13	02	15	08	02	10	25
3. Horticulture										
May	FFW	Value addition of banana waste	01	13	02	15	08	02	10	25
July	FFW	Fertigation technology in banana	01	13	02	15	08	02	10	25
September	FFW	CMV disease management in banana	01	13	02	15	08	02	10	25
November	FFW	Post harvest management technology in banana	01	13	02	15	08	02	10	25
January	FFW	Production technology of spices	01	13	02	15	08	02	10	25
March	FFW	Protected cultivation of vegetable crops	01	13	02	15	08	02	10	25
4. Agriculture Extension (Capacity Building and Group Dynamics)										
May	FFW	Natural Farming	01	13	02	15	08	02	10	25
July	FFW	Nutritional Kitchen Garden	01	13	02	15	08	02	10	25
September	FFW	ITK	01	13	02	15	08	02	10	25
November	FFW	Natural Farming	01	13	02	15	08	02	10	25
January	FFW	Nutritional Kitchen Garden	01	13	02	15	08	02	10	25
March	FFW	ITK	01	13	02	15	08	02	10	25
5. Genetics & Plant Breeding										
May	FFW	Production Management of minor millets	01	13	02	15	08	02	10	25
July	FFW	Production	01	13	02	15	08	02	10	25

		Management of minor millets								
September	FFW	FIR in kharif crops	01	13	02	15	08	02	10	25
November	FFW	Post harvest management of kharif crops	01	13	02	15	08	02	10	25
January	FFW	Seed production of chickpea	01	13	02	15	08	02	10	25
March	FFW	Seed production of sugarcane	01	13	02	15	08	02	10	25
6. Livestock production										
May	FFW	Feed & nutrition management	01	13	02	15	08	02	10	25
July	FFW	Green fodder production management	01	13	02	15	08	02	10	25
September	FFW	Goatery production management	01	13	02	15	08	02	10	25
November	FFW	Disease management in goatery	01	13	02	15	08	02	10	25
January	FFW	Disease management in poultry	01	13	02	15	08	02	10	25
March	FFW	Silage making	01	13	02	15	08	02	10	25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	**Clientele**	**Title of the training programme**	**Duration in days**	**Number of participants**						**Grand Total**
				Others			**Number of SC/ST**			
				Male	**Female**	**Total**	**Male**	**Female**	**Total**	
Crop Production										
April	RY	Crop production management of kharif crops	03	10	02	13	02	00	02	15
October	RY	Crop production management of Rabi crops	03	10	02	13	02	00	02	15
Horticulture										
June	RY	Nursery management of horticulture crops	03	10	02	13	02	00	02	15
September	RY	Terrace Gardening	03	10	02	13	02	00	02	15
Livestock production										
July	RY	Natural farming	03	10	02	13	02	00	02	15
December	RY	Dairy Production Management	03	10	02	13	02	00	02	15
Genetics & Plant Breeding										

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	RY	Quality seed production of Kharif crops	03	10	02	13	02	00	02	15
November	RY	Quality seed production of rabi crops	03	10	02	13	02	00	02	15
Plant Protection										
March	RY	Vermicompost Production Management	03	10	02	13	02	00	02	15
February	RY	Vermicompost Production Management	03	10	02	13	02	00	02	15
Agriculture Extension (Capacity Building and Group Dynamics)										
August	RY	Natural Farming	03	10	02	13	02	00	02	15
January	RY	Natural Farming	03	10	02	13	02	00	02	15

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										
May	EF	Crop Production Management of kharif crops	01	05	05	10	05	05	10	20
November	EF	Crop Production Management of rabi crops	01	05	05	10	05	05	10	20
Horticulture										
July	EF	Onion production technology	01	05	05	10	05	05	10	20
October	EF	Raising additional income through banana intercropping	01	05	05	10	05	05	10	20
Livestock production										
August	EF	Poultry Production Management	01	05	05	10	05	05	10	20
January	EF	Goatery Production Management	01	05	05	10	05	05	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	
Genetics & Plant Breeding										
June	EF	Seed production technology of kharif crops	01	05	05	10	05	05	10	20
December	EF	Seed production technology of rabi crops	01	05	05	10	05	05	10	20
Plant Protection										
April	EF	Pest & Disease Management of Kharif crops	01	05	05	10	05	05	10	20
March	EF	Pest & Disease Management of rabi crops	01	05	05	10	05	05	10	20
Agriculture Extension (Capacity Building and Group Dynamics)										
September	EF	Value Addition & Food Processing	01	05	05	10	05	05	10	20
February	EF	Nutritional Kitchen Garden	01	05	05	10	05	05	10	20

Sponsored Training Programmes

S. No.	Title	Thematic area	*Duration*	Client PF/ RY/ EF	No. of courses	No. of participants							Spo nsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	29	-	-	600	-	-	12	-	-	612
Kisan Mela	01	-	-	200	-	-	20	-	-	220
Kisan Ghosthi	01	-	-	50	-	-	-	-	-	50
Exhibition	02	-	-	300	-	-	20	-	-	320
Film Show	24	-	-	500	-	-	10	-	-	510
Group meetings	04	-	-	100	-	-	-	-	-	100
Lectures delivered as resource persons	25	-	-	625	-	-	75	-	-	700
Newspaper coverage	50	-	-	-	-	-	-	-	-	50
Radio talks	30	-	-	-	-	-	-	-	-	30
TV talks	04	-	-	-	-	-	-	-	-	04
Popular articles	10	-	-	-	-	-	-	-	-	10
Extension Literature	04	-	-	-	-	-	-	-	-	04
Advisory Services	20	-	-	-	-	-	-	-	-	20
Scientific visit to farmers field	70	-	-	-	-	-	-	-	-	70
Farmers visit to KVK	12	-	-	125	-	-	25	-	-	150

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Diagnostic visits	04	-	-	20	-	-	10	-	-	30
Exposure visits	10	-	-	180	-	-	12	-	-	192
Animal Health Camp	04	-	-	400	-	-	-	-	-	400
Self Help Group Conveners meetings	02	-	-	50	-	-	04	-	-	54
Celebration of important days (specify)	06	-	-	250	-	-	20	-	-	270
Others (Awarness Programme)	15	-	-	1200	-	-	20	-	-	1220
Total	**327**	**-**	**-**	**4600**	**-**	**-**	**228**	**-**	**-**	**5016**

Target for Production and supply of Technological products

Seed Materials

Category	Crop	Variety	Quantity (qtl.)
Cereals	Wheat	HI-1544/ DBW-187/ Tejas	125
Oilseeds	Soybean	JS-2098/ JS-2069	25
Pulses	Chickpea	RVG 202/ RVG 204	25

Planting Materials

Category	Crop	Variety	Quantity (Nos.)
Fruits	Lemon	Kagzi lime	500
Fruits	Jamun	Seeded	500
Fruits	Jack Fruit	Kokan Gold	1000
Fruits	Custard Apple	Seeded	1000
Fruits	Mango	Amrapali, Dasheri, Langda, Mallika	1000
Vegetables	Chilli	Hybrid	4000
Vegetables	Tomato	Hybrid	1000
Vegetables	Brinjal	Hybrid	1000
Flowers	Marigold	Hybrid	500

Bio.products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)/ (lts)
Bioagents				
-	-	-	-	-
Biofertilizers				
1	Vermicompost	-	-	50000
2	Verms	Eisenia fetida	-	100
3	Ghanjivamrut	-	-	1000
4	Meetha Jaiv Rasayan	-	-	1000
5	Kadwa Jaiv Rasayan	-	-	1000
6	Khatta Jaiv Rasayan	-	-	1000
Bio Pesticides				
1	Dasparni ark	-	-	2000
2	Brahmastra	-	-	1000
3	Agniastra			1000
4	Neemastra			1000
5	Mahi Rasayan			1000

Livestock

S. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Desi	-	-
Sheep and Goat	Goat	Buck	05	-
Poultry	Poultry Bird	Kadaknath	200	-
	Poultry Bird	Desi	500	-
Fisheries	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
April	Quarterly	-
July	Quarterly	-
October	Quarterly	-
January	Quarterly	-

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case: CFLD (no.- 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	Survey, line dept, ex trainees, interface
2	Rural Youth	Survey, line dept, ex trainees, interface
3	In.service personnel	Survey, line dept, ex trainees, interface
4	methodology for identifying OFTs/FLDs	Survey, line dept, ex trainees, 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	Titgaon	Khaknar	05
2	Mahalgulara	Khaknar	02
3	Sirpur	Khaknar	11
4	Hanumat Kheda	Khakhnar	05
5	Sarola	Khakhnar	02
6	Bhavasa	Burhanpur	31
7	Khamani	Burhanpur	32
8	Adgaon	Burhanpur	30

1. **No. of farm families selected per village** : 25
2. **No. of survey/PRA to be conducted**: 04

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2015

List of equipments purchased:

S. No.	Name of the Equipment	Qty.	Condition
1	Soil Testing Mini Kit	02	Not working

Details of samples analyzed so far: (2015-2017)

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized

Soil Samples	2748	5775	39	604000/-
Total	**2748**	**5775**	**39**	**604000/-**

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
ATARI, Jabalpur	Meetings, Reporting, Documentation, Awareness, Workshops, Seminars, Trainings & Mandatory Activities
DES, RVSKVV, Gwalior	Meetings, Reporting, Documentation, Awareness, Workshops, Seminars, Trainings & Mandatory Activities
COA, Khandwa	RAWE
DSR,Indore	TOT
NABARD	Training programme
IARI, Indore	TOT
ATMA	Capacity Building Training Programme, Package Development
District Horticulture Department	Training Programmes, Workshop
District Agriculture Department	FLD, Training Programmes, Farm School, Farmer Scientist Interface, Goshti
District Veterinary Department	FLD, Capacity Building Training Programme, Workshop
District Fishery Department	Meetings
BOI – RSETI	Exposure Visits, Trainings and Awareness Programmes
AIR Khandwa	Awareness
KVK Khandwa/ Khargone/ Indore	Exposure visits, Meetings, Telephonic Discussions

Details of linkage with ATMA / NFSM

a) **Is ATMA implemented in your district** Yes

Name of Programme	Nature of linkage
Capacity Building Training Programme	**Conduct training programmes**

b) 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

S.No	Activity details	Quantity (Nos.)	Targeted Beneficiaries/Area/Coverage
1	Kisan Gosthi	05	300
2	Group Meeting	05	125
3	Field Day	01	50
4	Exposure visit	10	250
5	Training/ Awareness Programme	10	400
6	Demonstration	12	12
7	Literature Published	2000	2000
8	Agriculture Method Demonstration (at KVK)	20	1000
9	Soil Sample Testing (Microbiological & Micronutrient Analysis)	14	14

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4250 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	Js-2029, JS-2069, JS-2098, JS-2034 RVS 2001-4, RVS 24, RVS 18	Varietal	1500
Pigeon Pea	Kharif	Rajeshwari, Pusa 16	Varietal	500
Wheat	Rabi	HI-1544, DBW-187, Tejas, Ajeet 102, Supreme 1122	Varietal	1000
Chickpea	Rabi	RVG-201, RVG-202, RVG-203,RVG-204, RVG-205	Varietal	1000
Vegetable	Kharif & Rabi	Hybrid	Varietal	250

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production			
Nursery	Fruit Plants- Custard Apple (Balanagar), Mango, Jamun (Konkan Bahadoli,), Karonda (Pant Manohar), Neem (Desi) , Jack Fruit (Kokan Gold), Lemon (Kagzi lime) Forest Plants- Karanj, Gulmohar, Tamarind, Subabool, Vilaiti Imli Vegetable Nursery- Chilli, Tomato, Brinjal	-	1769 Fruit plant sale **Rs. 43,675 income generated**			
Goatry	Goat & Kids of sirohi, osmanabadi & sujat	Size of Shed: 25x60 & 30x60 ft. Open fencing	02 nos. Goat sale **Rs. 24000 income generated**			
Seed Production	Wheat DBW-187 & Chickpea RVG-202	-	268960 + 74880 = 343840 **Rs. 343840 income generated**			
Organic Unit	Decomposer, Earthworms, Azolla, Vermicompost, Cow dung & Cow Urine	-	**Items**	**Unit**	**Qty**	**Income (Rs.)**
			Earthworms	Kg.	11	2750
			Azolla	Kg.	50	2000
			Vermicompost	Kg.	865	5190
			Cow Dung	Trolley	02	8000
			Cow Urine	lit.	500	500
			Income generated			**18440.00**

ANNUAL ACTION PLAN 2024

KVK Govindnagar, Narmadapuram

Year of sanction: 2024

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
Dr. Sanjeev Kumar Garg	**Office**	**Mobile**	**Email**
		9074929751	agrisanjeev75@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator									
2	Subject Matter Specialist	Dr. Sanjeev Kumar Garg	In charge Senior scientist & Head	Agriculture extension	63100	05.03.2018	2018	9074929751	agrisanjeev75@gmail.com	
3	Subject Matter Specialist	Shri Brajesh Kumar Namdev	SMS	Plant Protection	63100	01.03.2018	2018	9770374647	brajesh.jnkvv@gmail.com	
4	Subject Matter Specialist	Dr Devidas Patel	SMS	Plant Breeding and Genetics	63100	05.03.2018	2018	9424854251	devidaspatelp24@gmail.com	
5	Subject Matter Specialist	ShriLavesh Kumar Chourasia	SMS	Horticulture	63100	09.03.2018	2018	9425990334	laveshchourasia@gmail.com	
6	Subject Matter Specialist	Dr. AkanchhhaPandey	SMS	Home Science	63100	02/04/2018	2018	9406623293	akanchha.pandey3190@gmail.com	
7	Subject Matter Specialist	Dr. Rajendra Patel	SMS	Agronomy	56100	12/31/2022	2018	7000034381	rajendrajhagari@gmail.com	
8	Programme Assistant	Dr. Praveen Solanki	PA	Environmental Science	39900	13.03.2018	2018	9893308407	praveen.solanki746@gmail.com	
9	Computer Programmer / Programme Assistant	Shri Rahul Majhi	PA	B tech - IT	39900	05.03.2018	2018	7049488553	rahulmajhi1989@gmail.com	

10	Farm Manager	ShriPankaj Sharma	PA	Agriculture Extension	39900	09.03.2018	2018	9713309916	prs2590@gmail.com	
11	Assistant	Shri Vikas Mohrarir	ASS.	Post Graduation	39900	01.03.2018	2018	9893780803	vm.viraj2011@gmail.com	
12	Jr. Stenographer / Comp. Operator	Abhay Warathe	STENO	Graduation	25500	31.01.2022	2022	7999788438	waratheabhay701@gmail.com	
13	Driver	Shri Omkarsingh Rajput	Driver	Graduation	24500	03.08.2018	2018	8223026737	Orajput52@gmail.com	
14	Driver	Nabab singh Kourav	Driver	Graduation	21700	31.01.2022	2022	6261040206	Kourav37@gmail.com	
15	Supporting staff	ShriJitendra Kumar Jain	SSS	Graduation	20300	15.03.2018	2018	9713949900	Jitendrakumarajain68@gmail.com	
16	Supporting staff	ShriPiyushJha	SSS	Graduation	20300	05.08.2018	2018	8839539126	jhapiyush01@gmail.com	

1.3 Total land with KVK (in ha): 50 acre

S. No.	Item	Area (ha)
1	Under Buildings	2.5
2	Under Demonstration Units	2
3	Under Crops	6
4	Orchard/Agro-forestry	-
5	Others (specify)	
Total		

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	Gov. of M.P under RKVY	January		1.08	April		**Complete**
2	Farmers Hostel	Non	-	-	-	-	-	
3	Staff Quarters (6)	ICAR	May	400	90.90	-	-	**Complete**
4	Demonstration Units (2)	Non	-	-	-	-	-	-
5	Fencing	Non						
6	Rain Water harvesting system	Non						
7	Threshing floor	Non						
8	Farm godown	Non						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	2018	747042	96645	Working
Tactor	2018	635500	35099	Working

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2019	34067	Working
Xerox Machine	2017	79038	Working
Camera	2019	25900/-	Working
Computer	2019	85600/-	Working
Computer 2	2022	104000/-	Working
Laser Printer	2019	10600/-	Working
Laser jet Printer	2019	16500/-	Working
Laser ink jet Printer	2019	10600/-	Working
Hp smart tank printer	2022	25000/-	Working
TV 2	2016,2007	57500,22000	Working

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

Sl. No.	Tentative Date
1	January
2	November

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	

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	668.69
Forest	175.33
Waste Land	2.62
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	25.28
Bushes	
Current Fallow	5.39
Other Fallow	7.61
Agricultural Land	325.50
Area Sown	325.50
Kharif	293.86
Rabi	325.00
Zaid	301.5
Cropping Intensity	300

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	147.1
2	Well	53.5
3	Tube well	71.3
4	Ponds	1.1

5	Others	52.0

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Deep soil	Heavy clays have a very high water-holding capacity, but most of the water is tightly bound and not available to plants. The humus content is often higher than in other mineral soils. They do not form a crust when they dry.	433.2
2	Medium deep soils		26.8
3	Shallow soils	Soil is light, warm, dry and tends to be acidic and low in nutrients. Light soils are often known as sandy soils due to their high proportion of sand and little clay (clay weighs more than sand). These soils have quick water drainage and are easy to work with	209.8

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)	Production (Qt.)	Productivity (Q /ha)
1	Wheat	256.98	1311.0	51.00
2	Summer Greangram	250.00		16.00
3	Paddy	196.30		51.00
4	Soybean	26.08		18.00
5	Chickpea	64.40	167.00	26.00

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

Month /Year	Rainfall (m.m.)	Temperature (^{0} C)	
		Maximum	Minimum
Jan, 22	8.20	26.90	2.90
Feb, 22	0.00	16.40	5.40
Mar, 22	0.00	41.10	10.00
Apr, 22	0.00	44.50	15.60
May, 22	0.20	42.60	21.50
Jun, 22	171.70	43.70	20.40
July, 2022	859.80	34.20	22.60
Aug., 2022	676.00	35.20	21.60
Sept., 2022	217.20	35.20	21.10
Oct. 2022	71.60	33.90	12.90
Nov. 2022	0.00	34.30	8.20
Dec. 2022	0.00	30.10	6.60

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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Narmadapuram	Narmadapuram				
2	Itarsi	Kesla				
3	Dolariya	Kesla				
4	Seoni Malwa	Seoni Malwa				
5	Babai	Babai				
6	Sohagpur	Sohagpur				
7	Pipariya	Pipariya				
8	Bankhedi	Bankhedi	Tindwada, Maharajganj, Jhiriya, Nejarkheda, Koda Padrai, Dhadaw padaw	Okra, Brinjal, Paddy, Wheat, Greengram, Chickpea, Pigeonpea and Goatery & Poultry	unavailability of improved breed of poultry & Goatery, unavailability of green fodder, awareness of vaccination	Promotion of Integrated farming system, Livestock up gradation and Management, Seed replacement- use of high yielding varieties tolerant to biotic and abiotic factors, Promotion of Horticultural crops., Crop Diversification, Soil Health Improvement, Pest management in crops, Water Conservation and Management, Employment generation for rural youths through agri. Enterprises, Strengthening of marketing network

Priority / Thrust areas

S. No.	Particulars
1.	Organic Farming
2.	Employment generation
3	Resource base Livelihood
4	Miltch animal based production system
5	Nutritional security for farm women & children

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
Number of OFTs	**Number of Farmers**	**Number of FLDs**	**Number of Farmers**
27	180	3	30

Training		Extension Activities	
Number of Courses	**Number of Participants**	**Number of activities**	**Number of participants**
52	1140	264	4167

Seed Production (Qtl.)	Planting material (Nos.)
240	5300

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 Training if any	Title of training for extension personnel if any	Extensi on activities	Supply of seeds, planting materials etc.
1									
2									
3									
4									

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Crop Diversification						Strawberry				
Varietal Evaluation	Sweet Corn				Brinjal					
					Broccoli					
SFM	Paddy Wheat		Green gram							
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								

Crop Production

OFT-1

Crop	Green gram	
Title of on farm trial	Assessment of Natural Farming package of practices in Greengram **(3rd Year)**	
Problem diagnosed	**High cost of crop cultivation under chemical farming, reduce organic carbon in soil**	
Farmers' Practices	chemical farming	
Details of technologies selectedfor assessment	T_1	Chemical Farming, NPK (20:60:0) & use of chemical insecticide Thioximothan 220gm/ha, Emamectin Benzoat 250gm/ha
	T_2	Natural Farming (Jeevamrit @600 liter/ha (200 liter per irrigation), ghan jeevamrit-5 qt/ha at the time of sowing, Neemastra-200L at 20 days interval)
Source of technology	**G.B. Pant University of Agriculture and Technology Pantnagar**	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	9000/-	
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)	
Performance indicators: (i) Technical- **yield (q/ ha)** (ii) Economic (iii) Social – **Employment generation**	No. of branches/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail	

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in Greengram **(3rd Year)**
Year/Season:	Zayad 2023
Farming situation:	Irrigated
Problem diagnosis:	**High cost of crop cultivation under chemical farming, reduce organic carbon in soil**
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Chemical Farming, NPK (20:60:0) & use of chemical insecticide Thioximothan 220gm/ha, Emamectin Benzoat 250gm/ha
T_2 –Recommended Practice-	Natural Farming (Jeevamrit @600 liter/ha (200 liter per irrigation), ghan jeevamrit-5 qt/ha at the time of sowing, Neemastra-200L at 20 days interval)
T_3- Recommended Practice-	
Date of sowing:	March 2023
Date of harvesting:	May 2023
Source of technology:	**G.B. Pant University of Agriculture and Technology Pantnagar**
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Green gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Crop	Paddy	
Title of on farm trial	Assessment of Natural Farming package of practices in Paddy **(3rd year)**	
Problem diagnosed	**High cost of crop cultivation under chemical farming, reduce carbonic organ in soil**	
Farmers' Practices	Chemical farming	
Details of technologies selectedfor assessment	T_1	Chemical Farming, NPK (120:60:40) & use of chemical insecticide Thioximothan 220gm/ha, Emamectin Benzoat 250gm/ha
	T_2	Natural Farming (Jeevamrit @1000 liter/ha (200 liter per irrigation), ghan jeevamrit-5 qt/ha at the time of sowing, Neemastra-200L at 20 days interval)
Source of technology	**G.B. Pant University of Agriculture and Technology Pantnagar**	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	9000	
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)	
Performance indicators: (iv) Technical- **yield (q/ ha)** (v) Economic (vi) Social – **Employment generation**	No. of tillers/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail	

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in Paddy **(3rd Year)**
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	**High cost of crop cultivation under chemical farming, reduce organic carbon in soil**

Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Chemical Farming, NPK (120:60:40) & use of chemical insecticide Thioximothan 220gm/ha, Emamectin Benzoat 250gm/ha
T_2 –Recommended Practice-	Natural Farming (Jeevamrit @1000 liter/ha (200 liter per irrigation), ghan jeevamrit-5 qt/ha at the time of sowing, Neemastra-200L at 20 days interval)
T_3- Recommended Practice-	
Date of sowing:	July 2023
Date of harvesting:	November 2023
Source of technology:	**G.B. Pant University of Agriculture and Technology Pantnagar**
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Crop/Enterprise	Crop (Paddy)
Title of on-farm trial	Assessment of improved variety JR-10 of Paddy (1st Year)
Problem diagnosed	Old varieties Susceptible against disease and pest
Farming situation	Irrigated
Production system and thematic area	Variety Evaluation
Farmers' practices	Use of old variety (Kranti)
Details of technologies selected for assessment/refinement Treatments	T1 Old variety (Kranti) medium duration, disease resistance
	T2 JR-10 short duration, multi disease resistance
Source of technology	JNKVV, Jabalpur
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	2
Critical input	Seed
Performance indicators Observation to be recorded	days to maturity, No. of tillers/plant, no. of seeds/plant, yield/ha.
Cost of input	1200
Total cost	10000

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of improved variety JR-10 of Paddy (1st Year)
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	**Old varieties Susceptible against disease and pest**

Thematic area:	**Variety Evaluation**
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Old variety (Kranti) medium duration, disease resistance
T_2 –Recommended Practice-	JR-10 short duration, multi disease resistance
T_3- Recommended Practice-	
Date of sowing:	July 2023
Date of harvesting:	November 2023
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Crop	Wheat	
Title of on farm trial	Assessment of Natural Farming package of practices in wheat **(3rd Year)**	
Problem diagnosed	**High cost of crop cultivation under chemical farming, reduce carbonic organ in soil**	
Farmers' Practices	Chemical farming	
Details of technologies selectedfor assessment	T_1	Chemical Farming use of fertilizer, insecticide, weedicides
	T_2	Natural Farming (Jeevamrit-1000L and ghan jeevamrit-4 qt, Neemastra-400L)
Source of technology	Acharya devvrat	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	15000/-	
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)	
Performance indicators: **(vii) Technical- yield (q/ ha)** **(viii) Economic** **(ix) Social – Employment generation**	No. of tillers/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail	

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in paddy **(3rd Year)**
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	**High cost of crop cultivation under chemical farming, reduce organic carbon in soil**
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Chemical Farming use of fertilizer, insecticide, weedicides
T_2 –Recommended Practice-	Natural Farming (Jeevamrit-1000L and ghan jeevamrit-4 qt, Neemastra-400L)
T_3- Recommended Practice-	
Date of sowing:	November 2023
Date of harvesting:	March 2023

Source of technology:	Acharya devvrat
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Crop	Chickpea	
Title of on farm trial	Assessment of Natural Farming package of practices in chickpea **(3rd Year)**	
Problem diagnosed	**High cost of crop cultivation under chemical farming, reduce carbonic organ in soil**	
Farmers' Practices	Chemical farming	
Details of technologies selectedfor assessment	T_1	Chemical Farming, NPK (20:60:0) & use of chemical insecticide Emamectin Benzoat 250gm/ha
	T_2	Natural Farming (Jeevamrit @600 liter/ha (200 liter per irrigation), ghan jeevamrit-5 qt/ha at the time of sowing, Neemastra-200L, Dashparni Ark 200L at 20 days interval)
Source of technology	Acharya devvrat	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	17000/-	
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)	
Performance indicators: **(x) Technical- yield (q/ ha)** **(xi) Economic** **(xii) Social – Employment generation**	No. of tillers/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail	

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in chickpea **(3rd Year)**
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	High cost of crop cultivation under chemical farming, reduce organic carbon in soil
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Chemical Farming, NPK (20:60:0) & use of chemical insecticide Emamectin Benzoat 250gm/ha
T_2 –Recommended Practice-	Natural Farming (Jeevamrit @600 liter/ha (200 liter per irrigation), ghan jeevamrit-5 qt/ha at the time of sowing, Neemastra-200L, Dashparni Ark 200L at 20 days interval)
T_3- Recommended Practice-	
Date of sowing:	November 2023
Date of harvesting:	March 2023
Source of technology:	Acharya devvrat
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Agronomy
Details of On Farm Trial (OFT)

OFT-1

Crop	Green gram	
Title of on farm trial	Assessment of Pre and Post Emergence herbicide in Green gram **(2nd year)**	
Problem diagnosed	**Low Yield due to heavy infestation of weeds and no use post emergence of weed**	
Farmers' Practices	Application of herbicide	
Details of technologies selectedfor assessment	T_1	Pre emergence herbicide (Pendimethalin 30% + Imazethapyr 2% EC)
	T_2	Application of Pre (Pendimethalin 30% + Imazethapyr 2% EC) and Post Emergence (Imezathapyr + Imazamox) herbicide (need based)
Source of technology	ICAR-DWR- Jabalpur	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	18000/-	
Critical input	Herbicide	
Performance indicators: **(xiii) Technical- yield (q/ ha)** **(xiv) Economic** **(xv) Social – Employment generation**	Weed density, no. of branches/plant, no. of pods/plant, yield (in q/ha.), Net income Benefit Cost ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Pre and Post Emergence herbicide in Green gram **(2nd year)**
Year/Season:	Zayad 2024
Farming situation:	Irrigated
Problem diagnosis:	**Low Yield due to heavy infestation of weeds and no use post emergence of weed**
Thematic area:	Integrated weed Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Application of herbicide
T_2 –Recommended Practice-	Pre emergence herbicide (Pendimethalin 30% + Imazethapyr 2% EC)
T_3- Recommended Practice-	Application of Pre (Pendimethalin 30% + Imazethapyr 2% EC) and Post Emergence (Imezathapyr + Imazamox) herbicide (need based)
Date of sowing:	March 2024
Date of harvesting:	May 2024
Source of technology:	ICAR-DWR- Jabalpur
Characteristics of technology:	Very effective
Name of Crop:	Green gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Crop	Soybean	
Title of on farm trial	Assessment of Pre and Post Emergence herbicide in Soybean **(2nd year)**	
Problem diagnosed	**Low Yield due to heavy infestation of weeds and no use of pre-emergence herbicide**	
Farmers' Practices	Application of herbicide	
Details of technologies selectedfor assessment	T_1	Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
	T_2	Pre- Emergence (Diclosulam 84 WP/pendimethalin 30EC) + Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
Source of technology	ICAR-DWR- Jabalpur	
Plot size	0.2 ha. each trial	

No. of farmers	5
Total cost	18000/-
Critical input	Herbicide
Performance indicators: **(xvi) Technical- yield (q/ ha)** **(xvii) Economic** **(xviii) Social – Employment generation**	Weed density, no. of branches/plant, no. of pods/plant, weed index, yield (in q/ha.), Net income, Benefit Cost ratio and farmers feedback

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Pre and Post Emergence herbicide in Soybean **(2nd year)**
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	**Low Yield due to heavy infestation of weeds and no use of pre-emergence herbicide**
Thematic area:	Integrated weed Management
No of trials:	5
No. of farmers involved	5
Type of OFT:	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
T_2 –Recommended Practice-	Pre- Emergence (Diclosulam 84 WP/pendimethalin 30EC) + Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
T_3- Recommended Practice-	Power weeder
Date of sowing:	July 2024
Date of harvesting:	September 2024
Source of technology:	ICAR-DWR- Jabalpur
Characteristics of technology:	Very effective
Name of Crop:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Crop	Wheat	
Title of on farm trial	Assessment of pre and Post Emergence herbicide in Wheat **(2nd year)**	
Problem diagnosed	Low Yield due to heavy infestation of weeds and no residue management	
Farmers' Practices	Application of herbicide (Post emergence herbicide)	
Details of technologies selectedfor assessment	T_1	Post emergence herbicide (Metsulfuron 75% WP)
	T_2	Pre emergence (Pendimethalin 30%-2.5 l/ha) + Post emergence (Metsulfuron 5% WG + Sulfosulfuron 75%- 40g/ha)
	T3	Direct sowing + need based application of herbicide
Source of technology	ICAR-DWR- Jabalpur	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	19500/-	
Critical input	sowing by Happy seeder, Herbicide	
Performance indicators: **(xix) Technical- yield (q/ ha)** **(xx) Economic** **(xxi) Social – Employment generation**	Weed density, weed index, no. of tillers/plant, yield (in q/ha.), Net income, Benefit Cost ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of pre and Post Emergence herbicide in Wheat **(2nd year)**
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to heavy infestation of weeds and no residue management
Thematic area:	Integrated weed Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Post emergence herbicide (metsulfuron 75% WP)
T_2 –Recommended Practice-	Pre emergence (Pendimethalin 30%) + Post emergence (metsulfuron 75% WP)
T_3- Recommended Practice-	Zero tillage (90% crop residue) + need-based application of herbicide
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	ICAR-DWR- Jabalpur
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Crop	Chickpea	
Title of on farm trial	Assessment of balanced nutrient management in chickpea **(2nd year)**	
Problem diagnosed	low yield due to imbalance used of fertilizer	
Farmers' Practices	Application of fertilizer	
Details of technologies selectedfor assessment	T_1	low fertilizer application
	T_2	100% RDF (NPK) 20:60:20
Source of technology	JNKVV- Jabalpur	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	12000/-	
Critical input	Fertilizer	
Performance indicators: **(xxii) Technical- yield (q/ ha)** **(xxiii) Economic** **(xxiv) Social – Employment generation**	No. of pods/plant, yield (in q/ha.), Net income, Benefit Cost ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of integrated nutrient management in chickpea **(2nd year)**
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	low yield due to imbalance used of fertilizer
Thematic area:	Integrated nutrient Management
No of trials:	5

No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	low fertilizer application
T_2 –Recommended Practice-	100% RDF (NPK) 20:60:20
T_3- Recommended Practice-	
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Soil Science

OFT-1

Crop / Enterprise	**Greengram**	
Title of on farm trial	Assessment of Phosphorus Rich Organic Manure (PROM) in **Greengram** for Nutrient management **(3rd Year)**	
Problem diagnosed	Farmers are gating problem for nutrient management in organic farming	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected fr assessment	T_1	Imbalance use of Nutrients Urea-25kg, DAP-62 kg/ha
	T_2	Application of PROM @ 400 kg/ha with Urea-25kg/ha
Source of technology	NIT Durgapur, 2012	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.8,000/-	
Critical input	PROM	
Performance indicators: **(xxv) Technical- yield (q/ ha)** **(xxvi) Economic** **(xxvii) Social – Employment generation**	No. of branches/plant, no. of seeds/pod, yield/ha., days to maturity, organic matter in soil and available phosphorus B;C ratio Farmer recognition to other farmers	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Phosphorus Rich Organic Manure (PROM) in **Greengram** for Nutrient management **(3rd Year)**
Year/Season:	2024 /Summer
Farming situation:	Irrigated
Problem diagnosis:	Farmers are gating problem for nutrient management in organic farming
Thematic area:	Soil Fertility and nutrient management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	**Refinement**
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of Nutrients Urea-25kg, DAP-62 kg/ha
T2 –Recommended Practice-	Application of PROM @ 400 kg/ha with Urea-25kg/ha
T3- Recommended Practice-	

Date of sowing:	March 2024
Date of harvesting:	June 2024
Source of technology:	NIT Durgapur, 2012
Characteristics of technology:	Organic sources of phosphorus as well as other nutrients in trace amount
Name of Crop/Enterprises:	**Greengram**
Recommendations for Farmers	3rd Year recommendation after 3rd year
Recommendations for Deptt. Personnel	3rd Year recommendation after 3rd year
Feedback	3rd Year recommendation after 3rd year

Details of On Farm Trial (OFT)
OFT-2

Crop / Enterprise	**Greengram**	
Title of on farm trial	Assessment IFFCO Nano DAP and Urea along with RDF on **Greengram** for Nutrient Management (1st Year)	
Problem diagnosed	Farmers are not aware about IFFCO Nano fertilizers	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected fr assessment	T_1	Imbalance use of Nutrients Urea-25kg, DAP-62 kg/ha
	T_2	Application of Nano Urea @ 1.25 litre/ha at 15 and 25 DAS and Nano DAP @ 1.25 litre/ha at 15 and 25 DAS with 50 % of T1 (Urea-12kg, DAP-30 kg/ha)
Source of technology	IFFCO	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.7000/-	
Critical input	IFFCO Urea and DAP	
Performance indicators: **(xxviii)Technical- yield (q/ ha)** **(xxix) Economic** **(xxx) Social – Employment generation**	No. of branches/plant, no. of seeds/pod, yield/ha., days to maturity, organic matter in soil and available phosphorus B;C ratio Farmer recognition to other farmers	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment IFFCO Nano DAP and Urea along with RDF on **Green Gram** for Nutrient Management (1st Year)
Year/Season:	2024 /Summer
Farming situation:	Irrigated
Problem diagnosis:	Farmers are not aware about IFFCO Nano fertilizers
Thematic area:	Soil Fertility and 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-	Imbalance use of Nutrients Urea-25kg, DAP-62 kg/ha
T2 –Recommended Practice-	Application of Nano Urea @ 1.25 litre/ha at 15 and 25 DAS and Nano DAP @ 1.25 litre/ha at 15 and 25 DAS with 50 % of T1 (Urea-12kg, DAP-30 kg/ha)
T3- Recommended Practice-	
Date of sowing:	March 2024
Date of harvesting:	June 2024
Source of technology:	IFFCO

Characteristics of technology:	IFFCO Urea and DAP in liquid form
Name of Crop/Enterprises:	**Greengram**
Recommendations for Farmers	1st Year recommendation after 3rd year
Recommendations for Deptt. Personnel	1st Year recommendation after 3rd year
Feedback	1st Year recommendation after 3rd year

Details of On Farm Trial (OFT)
OFT-3

Crop / Enterprise	**Paddy**	
Title of on farm trial	Assessment of Phosphorus Rich Organic Manure (PROM) in **Paddy** for Nutrient management **(3rd Year)**	
Problem diagnosed	Farmers are gating problem for nutrient management in organic farming	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected for assessment	T_1	Imbalance use of Nutrients Urea-225kg, DAP-125kg, SSP-250kg, MoP-50 kg/ha
	T_2	Application of PROM @ 600 kg/ha with Urea-225kg, MoP-50 kg/ha
Source of technology	NIT Durgapur, 2012	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.10,000/-	
Critical input	PROM	
Performance indicators: **(xxxi) Technical- yield (q/ ha)** **(xxxii) Economic** **(xxxiii)Social – Employment generation**	No. of tillers/plant, no. of grains/panicle, yield/ha., days to maturity, organic matter in soil and available phosphorus B;C ratio Farmer recognition to other farmers	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Phosphorus Rich Organic Manure (PROM) in **Paddy** for Nutrient management **(3rd Year)**
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Farmers are gating problem for nutrient management in organic farming
Thematic area:	Soil Fertility and nutrient management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	**Refinement**
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of Nutrients Urea-225kg, DAP-125kg, SSP-250kg, MoP-50 kg/ha
T2 –Recommended Practice-	Application of PROM @ 600 kg/ha with Urea-225kg, MoP-50 kg/ha
T3- Recommended Practice-	
Date of sowing:	July 2024
Date of harvesting:	November 2024
Source of technology:	NIT Durgapur, 2012
Characteristics of technology:	Organic sources of phosphorus as well as other nutrients in trace amount
Name of Crop/Enterprises:	**Paddy**

Recommendations for Farmers	3rd Year recommendation after 3rd year
Recommendations for Deptt. Personnel	3rd Year recommendation after 3rd year
Feedback	3rd Year recommendation after 3rd year

Details of On Farm Trial (OFT)
OFT-4

Crop / Enterprise	**Paddy**	
Title of on farm trial	Assessment IFFCO Nano DAP and Urea along with RDF on **Paddy** for Nutrient Management (2nd Year)	
Problem diagnosed	Farmers are not aware about IFFCO Nano fertilizers	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected for assessment	T_1	Imbalance use of Nutrients Urea-225kg, DAP-125kg, SSP-250kg, MoP-50 kg/ha
	T_2	Application of Nano Urea @ 1.25 litre/ha at 10 and 30 DAT and Nano DAP @ 1.25 litre/ha at 10 and 30 DAT with 50 % of T1 (Urea-110kg, DAP-60kg, SSP-125kg, MoP-50 kg/ha)
Source of technology	IFFCO	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.7000/-	
Critical input	IFFCO Urea and DAP	
Performance indicators: **(xxxiv)Technical- yield (q/ ha)** **(xxxv) Economic** **(xxxvi)Social – Employment generation**	No. of branches/plant, no. of seeds/penicle, yield/ha., days to maturity, organic matter in soil and available phosphorus B;C ratio Farmer recognition to other farmers	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment IFFCO Nano DAP and Urea along with RDF on **Paddy** for Nutrient Management (1st Year)
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Farmers are not aware about IFFCO Nano fertilizers
Thematic area:	Soil Fertility and 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-	Imbalance use of Nutrients Urea-225kg, DAP-125kg, SSP-250kg, MoP-50 kg/ha
T2 –Recommended Practice-	Application of Nano Urea @ 1.25 litre/ha at 10 and 30 DAT and Nano DAP @ 1.25 litre/ha at 10 and 30 DAT with 50 % of T1 (Urea-110kg, DAP-60kg, SSP-125kg, MoP-50 kg/ha)
T3- Recommended Practice-	
Date of sowing:	July 2024
Date of harvesting:	November 2024
Source of technology:	IFFCO
Characteristics of technology:	IFFCO Urea and DAP in liquid form
Name of Crop/Enterprises:	**Paddy**
Recommendations for Farmers	2nd Year recommendation after 3rd year
Recommendations for Deptt. Personnel	2nd Year recommendation after 3rd year

Feedback	2nd Year recommendation after 3rd year

Details of On Farm Trial (OFT)
OFT-5

Crop / Enterprise	**Wheat**	
Title of on farm trial	Assessment of Phosphorus Rich Organic Manure (PROM) in **Wheat** for Nutrient management **(3rd Year)**	
Problem diagnosed	Farmers are gating problem for nutrient management in organic farming	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected for assessment	T_1	Imbalance use of Nutrients Urea-225kg, DAP-125kg, MoP-50 kg/ha
	T_2	Application of PROM @ 600 kg/ha with Urea-225kg, MoP-50 kg/ha)
Source of technology	NIT Durgapur, 2012	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.7,000/-	
Critical input	PROM	
Performance indicators: **(xxxvii) Technical- yield (q/ ha)** **(xxxviii) Economic** **(xxxix)Social – Employment generation**	No. of tillers/plant, no. of seeds/spike, yield/ha., days to maturity, organic matter in soil and available phosphorus B;C ratio Farmer recognition to other farmers	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Phosphorus Rich Organic Manure (PROM) in **Wheat** for Nutrient management **(3rd Year)**
Year/Season:	2024/winter
Farming situation:	Irrigated
Problem diagnosis:	Farmers are gating problem for nutrient management in organic farming
Thematic area:	Soil Fertility and nutrient management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	**Refinement**
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of Nutrients Urea-225kg, DAP-125kg, MoP-50 kg/ha
T2 –Recommended Practice-	Application of PROM @ 600 kg/ha with Urea-225kg, MoP-50 kg/ha)
T3- Recommended Practice-	
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	NIT Durgapur, 2012
Characteristics of technology:	Organic sources of phosphorus as well as other nutrients in trace amount
Name of Crop/Enterprises:	**Wheat**
Recommendations for Farmers	3rd Year recommendation after 3rd year
Recommendations for Deptt. Personnel	3rd Year recommendation after 3rd year
Feedback	3rd Year recommendation after 3rd year

Details of On Farm Trial (OFT)
OFT-6

Crop / Enterprise	**Wheat**	
Title of on farm trial	Assessment IFFCO Nano DAP and Urea along with RDF on **Wheat** for Nutrient Management (1st Year)	
Problem diagnosed	Farmers are not aware about IFFCO Nano fertilizers	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected for assessment	T_1	Imbalance use of Nutrients Urea-225kg, DAP-125kg, MoP-50 kg/ha
	T_2	Application of Nano Urea @ 1.25 litre/ha at 10 and 30 DAS and Nano DAP @ 1.25 litre/ha at 10 and 30 DAS with 50 % of T1 (Urea-110kg, DAP-60kg, MoP-50 kg/ha)
Source of technology	IFFCO	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.7000/-	
Critical input	IFFCO Urea and DAP	
Performance indicators: **(xl) Technical- yield (q/ ha)** **(xli) Economic** **(xlii) Social – Employment generation**	No. of branches/plant, no. of seeds/spike, yield/ha., days to maturity, organic matter in soil and available phosphorus B;C ratio Farmer recognition to other farmers	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment IFFCO Nano DAP and Urea along with RDF on **Wheat** for Nutrient Management (1st Year)
Year/Season:	2024 /Summer
Farming situation:	Irrigated
Problem diagnosis:	Farmers are not aware about IFFCO Nano fertilizers
Thematic area:	Soil Fertility and 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-	Imbalance use of Nutrients Urea-225kg, DAP-125kg, MoP-50 kg/ha
T2 –Recommended Practice-	Application of Nano Urea @ 1.25 litre/ha at 10 and 30 DAS and Nano DAP @ 1.25 litre/ha at 10 and 30 DAS with 50 % of T1 (Urea-110kg, DAP-60kg, MoP-50 kg/ha)
T3- Recommended Practice-	
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	IFFCO
Characteristics of technology:	IFFCO Urea and DAP in liquid form
Name of Crop/Enterprises:	**Greengram**
Recommendations for Farmers	1st Year recommendation after 3rd year
Recommendations for Deptt. Personnel	1st Year recommendation after 3rd year
Feedback	1st Year recommendation after 3rd year

Plant Protection

Details of On Farm Trial (OFT)

OFT-1

Crop	Rice

Title of on farm trial	Assessment of bio agent *Trichogramma chilonis* for management of Rice leaf folder	
Problem diagnosed	Heavy incidence of rice leaf folder, indiscriminate of insecticide and increasing of input cost (2^{nd} year)	
Farmers' Practices	Application of insecticide	
Details of technologies selectedfor assessment	T_1	Indiscriminate application of insecticide (Farmers practice)
	T_2	Installation of Pheromone trap @ 25 per ha. and relsease of egg parasitoid Trichogramma chilonis @ 1 lakh/ha at 37, 41 and 51 days after transplanting.
	T3	Filed release of egg parasitoid Trichogramma chilonis @ 1 lakh/ha at 37, 41 and 51 days after transplanting.
Source of technology	NIPHM Hyderabad	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	10000	
Critical input	Pheromone trap and Tricho-card	
Performance indicators: **(xliii) Technical- yield (q/ ha)** **(xliv) Economic** **(xlv) Social – Employment generation**	2 FDL with larva/hill, production (Yield in qt/ha.), Net income, B : C ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of bio agent *Trichogramma chilonis* for management of Rice leaf folder
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of rice leaf folder, indiscriminate of insecticide and increasing of input cost
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Indiscriminate application of insecticide (Farmers practice)
T_2 –Recommended Practice-	Installation of Pheromone trap @ 25 per ha. and relsease of egg parasitoid Trichogramma chilonis @ 1 lakh/ha at 37, 41 and 51 days after transplanting.
T_3- Recommended Practice-	Filed release of egg parasitoid Trichogramma chilonis @ 1 lakh/ha at 37, 41 and 51 days after transplanting.
Date of sowing:	July 2024
Date of harvesting:	November 2024
Source of technology:	NIPHM Hyderabad
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Crop	Chickpea	
Title of on farm trial	Assessment of bio agents for management of wilt disease in Chickpea (2^{nd} year)	
Problem diagnosed	Low plant population due severe incidence of wilt reduces the yield of chickpea	
Farmers' Practices	No use of *Trichoderma viride, Pseudomonas fluorescens* and no crop rotation	
Details of technologies selectedfor assessment	T_1	No use of Trichoderma viride, Pseudomonas fluorescens and no crop rotation (Farmers practice)
	T_2	Soil application of FYM enriched T. viride @5 kg/ha before last ploughing followed by sowing of chickpea seed treated with T. viride @10g/kg

	T3	Soil application of FYM enriched T. viride @ 5 kg/ha followed by sowing of chickpea pea seed treated With T. viride @10g/kg and Pseudomonas fluorescens @ 10 ml per kg.
Source of technology	JNKVV Jabalpur	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	7000/-	
Critical input	*Trichoderma viride, Pseudomonas fluorescens*	
Performance indicators: **(xlvi) Technical- yield (q/ ha)** **(xlvii) Economic** **(xlviii) Social – Employment generation**	Plant population per meter square, (Yield in q/ha.), Net income, B : C ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of bio agents for management of wilt disease in Chickpea (2^{nd} year)
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low plant population due severe incidence of wilt reduces the yield of chickpea
Thematic area:	Integrated Disease Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	No use of Trichoderma viride, Pseudomonas fluorescens and no crop rotation (Farmers practice)
T_2 –Recommended Practice-	Soil application of FYM enriched T. viride @5 kg/ha before last ploughing followed by sowing of chickpea seed treated with T. viride @10g/kg
T_3- Recommended Practice-	Soil application of FYM enriched T. viride @ 5 kg/ha followed by sowing of chickpea pea seed treated With T. viride @10g/kg and Pseudomonas fluorescens @ 10 ml per kg.
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Crop	Okra	
Title of on farm trial	Assessment of integrated pest management for management of fruit and shoot borer in Okra (1^{st} year)	
Problem diagnosed	Okra cultivated in 560 ha. area in district, indiscriminate use of insecticide for managing fruit and shot borer in Okra farmers applied average 12 – 16 spray during crop session, Pesticide residue too high.	
Farmers' Practices	Indiscriminate use of insecticide (12-16 sprays during crop session)	
Details of technologies selectedfor	T_1	Indiscriminate use of insecticide (12-16 sprays during crop session)

assessment	T_2	Installation of Pheromone trap @ 25 per ha. Release egg parasitoid, Trichogramma chilonis @ 1 lakh per ha.
	T3	Installation of pheromone trap @ 25 per ha. application of bio pesticide Beauvaria bassiana @ 1 liter per ha. and need based spray of Insecticide Spinosad 45 SC.
Source of technology	NIPHM Hyderabad	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	30000	
Critical input	Pheromone traps, *Trichogramma chiloni*, Chrysoperla carnea, EPNs, *Beauvaria bassiana and* Spinosad 45 SC	
Performance indicators: **(xlix) Technical- yield (q/ ha)** **(l) Economic** **(li) Social – Employment generation**	Pest infestation % (marketable fruits - q/ha. and infested fruit – q/ha., Yield in qt/ha., Net income, B : C ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated pest management for management of fruit and shoot borer in Okra (1st year)
Year/Season:	Summer 2024
Farming situation:	Irrigated
Problem diagnosis:	Okra cultivated in 560 ha. area in district, indiscriminate use of insecticide for managing fruit and shot borer in Okra farmers applied average 12 – 16 spray during crop session, Pesticide residue too high.
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	**Assessment**
Details of technology selected for assessment:	
T_1 – Farmers Practice-	Indiscriminate use of insecticide (12-16 sprays during crop session)
T_2 –Recommended Practice-	Installation of Pheromone trap @ 25 per ha. Release egg parasitoid, Trichogramma chilonis @ 1 lakh per ha.
T_3- Recommended Practice-	Installation of pheromone trap @ 25 per ha. application of bio pesticide Beauvaria bassiana @ 1 liter per ha. and need based spray of Insecticide Spinosad 45 SC.
Date of sowing:	Feb. 2024
Date of harvesting:	March to June 2024
Source of technology:	NIPHM Hyderabad
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Horticulture

OFT-1

Crop / Enterprise	Crop Brinjal	
Title of on farm trial	Assessment of Brinjal Variety VNR Keerthana (VNR 53-8)	
Problem diagnosed	In Kharif season farmers grow local Brinjal Variety so get low yield	
Farmers' Practices	Brinjal Variety Mahy Hari	
Details of technologies selectedfor assessment	T_1	Brinjal Variety Mahy Hari
	T_2	Brinjal improved Variety VNR Keerthana (VNR 53-8)
Source of technology	VNR Raipur 2020	
Plot size	0.2 ha	

No. of farmers	5
Total cost	Rs.5,000
Critical input	Seed
Performance indicators: **(lii) Technical- yield (q/ ha)** **(liii) Economic** **(liv) Social – Employment generation**	No. of Fruits/plant, Yield per Ha B;C ratio Farmer recognition to other farmers

Detailed Information about

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 Brinjal Variety VNR Keerthana (VNR 53-8)
Year/Season:	2024 Kharif
Farming situation:	Irrigated
Problem diagnosis:	In Kharif season farmers grow local Brinjal Variety so get low yield
Thematic area:	Varietal evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Brinjal Variety Mahy Hari
T2 –Recommended Practice-	Brinjal improved Variety VNR Keerthana (VNR 53-8)
T3- Recommended Practice-	Nil
Date of sowing:	01-06-2024
Date of harvesting:	31.11.2024
Source of technology:	VNR Raipur
Characteristics of technology:	No. of Fruits more per plant
Name of Crop/Enterprises:	Crop Brinjal
Recommendations for Farmers	First Year
Recommendations for Deptt. Personnel	
Feedback	

Horticulture

OFT-2

Crop / Enterprise	Strawberry
Title of on farm trial	Assessment of Strawberry Production in drip and plastic mulching (2nd Year)
Problem diagnosed	In Rabi season farmers grow conventional vegetable crops like cabbage and due to market glut so get low return
Farmers' Practices	**Conventional vegetable crops Cabbage**
Details of technologies selectedfor assessment	T_1 Cabbage green chalanger-1 T_2 Strawberry Winter dawn Tissue culture Plants
Source of technology	Maharashtra mahawaleswar & IIHR Banglore
Plot size	200sqm
No. of farmers	5
Total cost	Rs.30,000
Critical input	Strawberry Plants@ 20 Rs. Per Plant 200 plants for 200 square meter =4500/-
Performance indicators: **(lv) Technical- yield (q/ ha)** **(lvi) Economic** **(lvii) Social – Employment generation**	No. of Fruits/plant, Yield per Ha B;C ratio Farmer recognition to other farmers

Detailed Information about

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 Strawberry Production in drip and plastic mulching (2nd Year)
Year/Season:	2024 Kharif
Farming situation:	In Kharif season farmers grow local Brinjal Variety so get low yield
Problem diagnosis:	Irrigated
Thematic area:	Crop Diversification and Horticulture
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-	Cabbage green chalanger-1
T2 –Recommended Practice-	Strawberry Winter dawn Tissue culture Plants
T3- Recommended Practice-	Nil
Date of sowing:	Feb
Date of harvesting:	April
Source of technology:	Maharashtra mahawaleswar & IIHR Banglore
Characteristics of technology:	No. of Fruits more per plant
Name of Crop/Enterprises:	Crop Brinjal
Recommendations for Farmers	First Year
Recommendations for Deptt. Personnel	
Feedback	

Horticulture

OFT-3

Crop / Enterprise	Pointed Gourd (Parwal)	
Title of on farm trial	Assessment Of high value Pointed gourd Production (1st Year)	
Problem diagnosed	In Kharif season Farmer grow local cucurbits crops so get low return	
Farmers' Practices	**Conventional vegetable crops Cucurbits Bottle Gourd**	
Details of technologies selectedfor assessment	T_1	Cucurbits like Bottle Gourd
	T_2	Pointed Gourd
Source of technology	ICAR - IVR Varanasai 2020	
Plot size	**400 sqm**	
No. of farmers	5	
Total cost	Rs.35,000	
Critical input	**Pointed Gourd Plant**	
Performance indicators: **(lviii) Technical- yield (q/ ha)** **(lix) Economic** **(lx) Social – Employment generation**	No. of Fruits/plant, Yield per Ha B;C ratio Farmer recognition to other farmers	

Detailed Information about

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

Fisheries etc)	
Title of on-farm trial:	Assessment Of high value Pointed gourd Production (1st Year)
Year/Season:	2024 Rabi
Farming situation:	Irrigated
Problem diagnosis:	In Kharif season Farmer grow local cucurbits crops so get low return
Thematic area:	Crop Diversification and Horticulture
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-	Cucurbits like Bottle Gourd
T2 –Recommended Practice-	Pointed Gourd
T3- Recommended Practice-	Nil
Date of sowing:	Oct
Date of harvesting:	Jan
Source of technology:	ICAR - IVR Varanasai 2020
Characteristics of technology:	
Name of Crop/Enterprises:	**Pointed Gourd**
Recommendations for Farmers	First Year
Recommendations for Deptt. Personnel	
Feedback	

Horticulture

OFT-4

Crop / Enterprise	Banana	
Title of on farm trial	Assessment of high value Banana Tissue culture plants (1st Year)	
Problem diagnosed	Farmers generally grown conventional crop like Paddy in Kharif Season	
Farmers' Practices	Conventional crops like Paddy	
Details of technologies selectedfor assessment	T_1	Conventional crops like Paddy
	T_2	Banana Tissue culture plants
Source of technology	ICAR- NRCB, Tiruchirappalli, Tamil Nadu	
Plot size	400 sqm	
No. of farmers	5	
Total cost	Rs.25,000	
Critical input	Banana tissue culture plant	
Performance indicators: **(lxi) Technical- yield (q/ ha)** **(lxii) Economic** **(lxiii) Social – Employment generation**	No. of Fruits/plant, Yield per Ha B;C ratio Farmer recognition to other farmers	

Detailed Information about

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of high value Banana Tissue culture plants (1st Year)
Year/Season:	2024 Kharif
Farming situation:	Irrigated
Problem diagnosis:	Farmers generally grown conventional crop like Paddy in Kharif Season
Thematic area:	Crop Diversification and Horticulture

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-	Conventional crops like Paddy
T2 –Recommended Practice-	Banana Tissue culture plants
T3- Recommended Practice-	Nil
Date of sowing:	July
Date of harvesting:	Jan
Source of technology:	ICAR- NRCB, Tiruchirappalli, Tamil Nadu
Characteristics of technology:	No. of Fruits more per plant
Name of Crop/Enterprises:	Crop Brinjal
Recommendations for Farmers	First Year
Recommendations for Deptt. Personnel	
Feedback	

Home Science
Information about Home Science
OFT: 1

Crop/Enterprise	Kutki millets
Title of on-farm trial	Assessment of Kutki millets intake for improvement of haemoglobin level in adolescent girls **(3rd Year)**
Problem diagnosed	Anaemia in adolescent girls Lack of knowledge in processing of Kutki millets
Farming situation	Not applicable
Production system and thematic area	Nutritional security
Farmers' practices	**Farmer practices Wheat flour/rice**
Details of technologies selected for assessment/refinement Treatments	**T1-Wheat** **T2- Wheat + Drum stick leaves** **T3- 100gm Kutki /day + 25gm drum stick leaf/day**
Source of technology	**IIMR HYDERABAD**
No. of Trial	3
No. of farmers	5
Critical input	Kutki
Cost of input	1080 per trail
Total cost	8500/-
Performance indicators Observation to be recorded	Hemoglobin label ,weight ,Height BMI (before and after 3 month of assessment)

OFT: 2

Crop/Enterprise	**Durum wheat (HI8663) + ARF powder prepared from mung**
Title of on-farm trial	Assessment of Amylase Rich Food (ARF's) in porridge among weaning infants (6 months-5 Years)
Problem diagnosed	Lack of awareness regarding healthy food
Production system and thematic area	Nutritional Security
Farmers' practices	T1 - consumption of porridge prepared from local wheat var.
Details of technologies selected for assessment / refinement Treatments	T2 - Consumption of porridge prepared from durum wheat var. T3 - Consumption of porridge prepared from durum wheat variety + inclusion of ARF powder prepared from mung
Source of technology	TNAU (2016)
No. of farmers	07
No of trial	03
Critical input	durum wheat + ARF powder prepared from mung
Performance indicators Observation to be recorded	Per Capita Consumption (gm/day), availability of nutrients
Cost of input	Rs. 3000 / -
Total cost	Rs. 15000 / -

OFT: 3

Crop/Enterprise	Pearl Millet
Title of on-farm trial	Assessment on Consumption of Biofortified Pearl Millet Crop Variety RHB - 234 (1st year)
Problem diagnosed	Lack of awareness regarding healthy food
Farming situation	Rainfed
Production system & thematic area	Value addition
Farmers' practices	T1 - Non- Consumption of Pearl Millet
Details of technologies selected for assessment/refinement Treatments	T2 - Consumption of Pearl Millet Crop T3 - Consumption of Biofortified Pearl Millet Crop Variety RHB - 234
Source of technology	ICAR (2017)
No. of farmers	07
Area of each trial	3500 sq m
No of trial	03
Critical input	Biofortified Pearl Millet
Performance indicators Observation to be recorded	Per capita consumption (gm/day), availability of zinc and iron content
Cost of input	R. 2000/-
Total cost	R. 8000/-

OFT: 4

Crop/Enterprise	Sorghum
Title of on-farm trial	Assessment of Sorghum Khichidi for anaemic children (1st Year)
Problem diagnosed	Anaemia children in rural areas
Farming situation	Not applicable
Production system and thematic area	Nutritional security
Farmers' practices	Wheat flour/rice
Details of technologies selected for assessment/refinement Treatments	T1- intake low protein, Vitamins and mineral diet in first half day T2- Sorghum + Moong dal = Sorghum Khichdi
Source of technology	IIMR HYDERABAD
No. of farmers	14
Area of each trial	Not applicable
No of trial	02
Charcterstics of technology	-it is rich source of protein ,vitamin and minerals and rich in potassium phosphorus and calcium and sufficient amount of iron ,zinc and sodium to reduce malnutrition
Critical input	Sorghum
Performance indicators Observation to be recorded	Hemoglobin label ,weight ,Hight
Cost of input	900/-
Total cost	8500/-

OFT: 5

Title : (Nutrition Sensitive Agriculture)	Assessment of green leafy multigrain Flour Chapati for improvement of haemoglobin levels in farmwomen (1st year)
Year/Season:	Rabi 2024-25
Problem diagnosed	Lack of Awareness about nutritious food & poor sanitation & hygiene
Thematic area:	Nutrition Sensitive Agriculture
No of trials:	03
No. of farm women involved:	07
Name of Var./Technology/Enterprises	Green leafy vegetables, Soy flour, Pulse and cereals
T1 – Farmers Practice-	Wheat Chapati
T2 –Recommended Practice-	Wheat+ Soy flour + Makki atta (1:1:1) + Seasonal GLV
T3 –Recommended Practice-	Wheat + Makki atta+ Besan (1:1:1) + Seasonal GLV
Source of technology:	KVK Jalandhar (2016)
Characteristics of technology:	Chopped or pureed Green leafy vegetables - amaranth leaves (chaulai ka saag), fenugreek (methi), spinach (palak), coriander (hara dhaniya), mint leaves (pudhina), spring onion (hare pyaaz) can be added to the whole wheat flour while kneading & rolled out as green rotis. This will enhance nutrients like iron, vitamin C, beta carotene (form of vitamin A in vegetarian sources), potassium and other minerals.
Farming situation:	Not applicable
Performance indicator/parameter	Per Capita Consumption (gm/day), availability of vitamin A,C and iron content
Cost input	350/-
Total cost	8500/-

Information about Extension OFT:

Title	Study of smart mobile agri-applications dissemination of agri- information (2nd year)
Season & Year	2024
Problem identified	Low knowledge of Smart phone agri-applications of agriculture App
Thematic Area	EXTEnsion
Farming situation	
Name of Technology Intervention under study	IARI Pusa New Delhi
Farmers Practice	Farmers practice (No use of smart mobile)
No. of replication (Farmers)	50

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Tomato	Integrated Pest Management	Demonstration of technology for Management of Invasive pest Tuta absoluta in Tomato	Pheromone trap, Bio agents (Trichogramma spp.), Bio pesticide Metarhizium anisopliae@400ml/acre and Insecticide	Rabi – 2024-25	0.4 ha.	10	Pest infestation %, Yield, Net return
2	Cucurbits	Integrated Pest Management	Demonstration of technology for Management of fruit Fly in Cucurbits	Installation of Fruit fly traps @ 25/ha. Drenching with Bio pesticide Metarhizium anisopliae@1000ml/ha	Summer 2024	0.4 ha.	10	Pest infestation %, Yield, Net return
3	Paddy	Nutrient management	Demonstration of nitrogen fixing biofertilizer Azolla and BGA in Paddy	Azolla, BGA	Kharif 2024	0.4 ha.	10	Yield, Net return
4	Chickpea	Integrated Weed Management	Demonstration of technology for Management of weed management	Pre - Emergence Herbicide (Pendimethalin 30% + Imazethapyr 2% EC-2.5l/ha))	Rabi 2024-25	0.4 ha.	10	Yield, Net return
5	Wheat	Varietal Eveluation	Demonstration of High yielding variety of Wheat (DBW-303)	Seed	Rabi 2024-25	0.4 ha.	10	Yield, Net return
6	Wheat	Varietal Eveluation	High yielding variety of Wheat (GW-513)	Seed	Rabi 2024-25	0.4 ha.	10	Yield, Net return
7	Chickpea	Nutrient Management	Demonstration of ghanjeevamrat and Jeevamrit in Chickpea	Ghanjeevamrat and Jeevamrit	Rabi 2024-25	0.4 ha.	10	No. of branches/plant, no. of seeds/pod, yield/ha., days to maturity, organic matter in soil
8	Greengram	soil fertility and Nutrient Management	Demonstration of liquid bio fertilizer on yield parameters of Greengram	liquid biofertilizer in mixed form (KVK Govindnagar)	Rabi – 2023-24	0.4 ha.	10	No. of branches/plant, no. of seeds/pod, yield/ha., days to maturity, organic matter in soil and available

								phosphorus
9	Greengram	soil fertility and Nutrient Management	Demonstration of liquid bio fertilizer on yield parameters of Wheat	liquid biofertilizer in mixed form (KVK Govindnagar)	Rabi – 2024-25	0.4 ha.	10	No. of Panicle/plant, no. of seeds/spike, yield/ha., days to maturity, Soil microbial counts
10	Sweet Corn	Varietal Evaluation	Sweet Corn Sugar -75	Seed	Jayad 2024	2 ha	10	B:C ratio
11	Brocolli	Varietal evaluation	Saki	Seed	Rabi 2024	400 sqm	10	Number of head per plant, B:C
12	Guava	Integrated Pest Management	Demonstration of technology for Management of fruit Fly in Guava	Installation of Fruit fly traps @ 25/ha. Drenching with Bio pesticide Metarhizium anisopliae@1000ml/ha	Kharif 2024	0.4ha.	10	Pest infestation %, Yield, Net return
13	Kutki jk--4	Nutritional security	Demonstration of variety JK—4 Kutki production for nutrition security	Seed	Kharif 2024-25	0.4ha.	10	Yield, Net return
14	Kodo millets	Nutritional security	Demonstration of variety kodo millets production for nutrition security	Seed	Kharif 2024-25	0.4ha.	10	Yield, Net return

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10		300
2	Farmers Training	14	Throughout the year	285
3	Media coverage	10		Mass
4	Training for extension functionaries	2		20

Details of FLD on Enterprises

Farm Implements

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

**Field efficiency, labour saving etc.*

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	*Season and year*	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soyabean	IPM	Integrated Pest Management	Seed, Pheromone traps, sticky traps bio pesticide and insecticide	*Kharif 2024*	10	25	Yield, Net income, B:C ratio Farmers feedback
2	Sesame	IPM			*Kharif 2024*	10	25	Yield, Net income, B:C ratio Farmers feedback
3	Mustard	IPM			*Rabi 2024-25*	10	25	Yield, Net income, B:C ratio Farmers feedback
4	Pigeon pea	Varietal evaluation	Improved variety, IWM, IPM, INM	Improved variety,	Kharif 2024-25	20	50	Yield q/ha
5	Black gram	Varietal evaluation	Improved variety, IPM, INM	Improved variety, INM	Kharif 2024	10	25	Yield q/ha
6	Lentil	Varietal evaluation	Improved variety, IWM, IPM, INM	Improved variety, INM	Rabi 2024-25	10	25	Yield q/ha

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	(October, February March) 2024-25	50
2	Farmers Training	12	July – August and October November	50
3	Media coverage	5	September – January	50
4	Training for extension functionaries	6	July/November	70

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Integrated Farming									
Water management									
Seed production									
Integrated Crop Management									
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Protective cultivation (Green Houses, Shade Net etc.)									
Any other (Pl. Specify) **Natural Farming**									
Total									
b) Fruits									
Management of young plants/orchards									
Total									
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology									
Total									
g) Medicinal and Aromatic Plants									
Production and management technology									
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Disease Management											
Feed management											
Production of quality animal products											
Total											
V Home Science/Women empowerment											
Household food security by kitchen gardening and nutrition gardening											
Design and development of low/minimum cost diet											
Designing and development for high nutrient efficiency diet											
Minimization of nutrient loss in processing											
Gender mainstreaming through SHGs											
Value addition											
Income generation activities for empowerment of rural Women											
Location specific drudgery reduction technologies											
Women and child care											
Total											
VI Agril. Engineering											
Total											
VII Plant Protection											
Integrated Pest Management	2	1									**40**
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											

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
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											
Planting material production											
Vermi-culture											
Value addition											
Sheep and goat rearing											
Para extension workers											
TOTAL											
(C) Extension Personnel											
Productivity enhancement in field crops											
Integrated Pest Management											
Integrated Nutrient management											
Protected cultivation technology											
Group Dynamics and farmers organization											

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

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									
Nursery management									
Integrated Crop Management									
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1							20
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
Off Season vegetable cultivation									
Any other (Pl. Specify **FPO Training**									
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									

d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	1	1							**20**
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Total									
VI Agril. Engineering									

VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	**Clientele**	**Title of the training programme**	**Duration in days**	**Number of participants**						**Grand Total**
				Others			**Number of SC/ST**			
				Male	**Female**	**Total**	**Male**	**Female**	**Total**	
Crop Production										
February	Farmers and farmwomen	Importance of Natural Farming	1							20
march	Farmers and farmwomen	Natural Farming (preparation of Jeevamrit)	1							20
March	Farmers and farmwomen	Natural Farming (preparation of ghan jeevamrit)	1							20
July	Farmers and farmwomen	Vermicompost	1							20
Horticulture										
May	Farmers and	Nursery raising	1							25

	farm women	in Kharif season								
July	Farmers and farm women	Off season Vegetable production	1							25
September	Farmers and farm women	Cultivation of Fruit crop	1							25
October	Farmers and farm women	Nursery raising in Rabi season	1							25
October	Farmers and farm women	Meadow Orchard in Guava	1							25
Livestock production										
Home Science										
September	Farmers and farmwomen	Training on preparation of miner millet products	1							20
November	Farmers and farmwomen	Training on importance of mushroom production and consumption	1							20
December	Farmers and farmwomen	Training on micro nutrient impertinence in diet	1							20
June	Farmers and farm women	Training on Diet planning for diabetic patient	1							20
Plant Protection										
January	Farmers and farm women	Organic & Natural Farming	1							20
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										
march	Farmers and farmwomen	Natural Farming (preparation of Dashparni Ark)	1							20
April	Farmers and farmwomen	Integrated crop Management of green gram	1							20
July	Farmers and farmwomen	Crop Diversification	1							20
August	Farmers and farm	Integrated crop	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	
	women	Management of Paddy								
November	Farmers and farm women	Integrated crop Management of chickpea	1							20
December	Farmers and farm women	Integrated crop Management of wheat	1							20
Agronomy										
February	Farmers and farm women	Role of conservation agriculture in present scenario for progressive farmers	1							20
March	Farmers and farm women	Integrated weed management in Greengram	1							20
April	Farmers and farm women	Importance of different weed in kharif crop	1							20
May	Farmers and farm women	Crop diversification system for progressive farmers	1							20
June	Farmers and farm women	Sowing method of soybean	1							20
July	Farmers and farm women	Integrated weed management in Kharif crops	1							20
August	Farmers and farm women	Importance of Azola and BGA in rice field	1							20
September	Farmers and farm women	Integrated farming system for progressive farmers	1							20
October	Farmers and farm women	Production technology of Chickpea	1							20
December	Farmers and farm women	Integrated weed Management in Rabi Crops	1							20
Horticulture										
February	Farmers and farm women	Micro irrigation for Horticulture Crops	1							25
March	Farmers and farm women	Training on Plastic Mulching	1							25
April	Farmers and farm women	Training on drip fertigation	1							25
April	Farmers and farm women	Production and Management technology of medicinal plants	1							25
November	Farmers and farm women	Protected Structure Training	1							25
December	Farmers and farm women	Cultivation of vegetable in Protected Cultivation	1							25
Livestock production										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Home Science										
June	Farmers and farmwomen	Training on Household food security by nutrition gardening techniques	1							20
July	Farmers and farmwomen	Designing and development for high nutrient efficiency diet	1							20
August	Farmers and farmwomen	Training on value addition of finger millet porridge product	1							20
July	Farmers and farmwomen	Training on Diet planning for thyroid patient	1							20
August	Farmers and farmwomen	Training on Designing and development for BP Patient	1							20
September	Farmers and farmwomen	Training on preparation Amylase Rich Food (ARF's) in porridge among weaning infants (6 months-5 Years)	1							20
Plant Protection										
February	Farmers and farmwomen	Integrated Pest Management in Vegetables	1							20
March	Farmers and farmwomen	Seed treatment in summer Greengram with beneficial microbes	1							20
March	Farmers and farmwomen	Integrated Pest management in Greengram	1							20
July	Farmers and farmwomen	Seed treatment in Kharif crops	1							20
August	Farmers and farmwomen	Integrated Pest Management in Rice	1							20
September	Farmers and farmwomen	Integrated Pest management in Pigeonpea	1							20
October	Farmers and farmwomen	Management of wilt disease in Chickpea	1							20
October	Farmers and farmwomen	Role of beneficial microbes in Seed treatment	1							20
November	Farmers and farmwomen	Role of beneficial microbes in Seed treatment for Rabi crops	1							20
December	Farmers and	Integrated Pest								

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	
	farmwomen	Management in Rabi Crops	1							20
Agriculture Extension (Capacity Building and Group Dynamics)										
May	Farmers and farmwomen	Mobilization of social capital	1							20
August	Farmers and farmwomen	Organic farming	1							20
Soil Science										
January	Farmers and farmwomen	Training programme on Soil test based nutrient manage.	1							20
March	Farmers and farmwomen	Training programme on Nutrient Use Efficiency	1							20
March	Farmers and farmwomen	Training programme on IFFCO Nano Urea and DAP	1							20
April	Farmers and farmwomen	Training programme on Integrated Nutrient Management	1							20
May	Farmers and farmwomen	Training programme on Soil test based nutrient manage.	1							20
May	Farmers and farmwomen	Training programme on IFFCO Nano Urea and DAP	1							20
July	Farmers and farmwomen	Training programme on Balance Use of Fertilizers	1							20
July	Farmers and farmwomen	Training programme on IFFCO Nano Urea and DAP	1							20
October	Farmers and farmwomen	Training programme on Liquid Biofertilizer	1							20
November	Farmers and farmwomen	Training programme on Organic Farming	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 Production										
May	Rural Youth	Training on Seed Production	**1**							**10**
Horticulture										
Livestock production										
Home Science										
October	Rural	Training on								

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	
	Youth	Butten Mushroom Production techniques								**10**
February	Rural Youth	Training on natural gulal making techniques								**10**
December	Rural Youth	Training on food preservation techniques								**10**
March	Rural Youth	Training on Tailoring and Stitching								**10**
March	Rural Youth	Beauty parler								**10**
April										
May										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
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										
March	RHEO, RAEO & ATMA	Natural farming	**1**							**20**
Agronomy										
Sep	RHEO, RAEO & ATMA	Identification and management of major weeds in Narmadapuram District	**1**							**20**
Horticulture										
December 2024	RHEO, RAEO & ATMA	Protected Cultivation of Vegetable crops	1							**20**
Livestock production										
Home Science										
July	Anganwadi worker	ining on importance of miner millets intake daily diet								**25**
Plant Protection										
July 2024	RAEO,RHEO,SADO	On farm production of bio agents, biopesticide for pest management in Natural and Organic farming	1							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
November 2024	RHEO, RAEO & ATMA	Inservice Training on nutrient management in Organic farming	1							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	*Duration*	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	15									
Kisan Mela	1									
Kisan Ghosthi	7									
Exhibition	5									
Film Show	12									
Method Demonstrations	2									
Farmers Seminar	2									
Workshop										
Group meetings	15									
Lectures delivered as resource persons	4									
Newspaper coverage	12									
Radio talks	10									
TV talks										
Popular articles	3									
Extension Literature	3									
Advisory Services	6									
Scientific visit to farmers field	62									
Farmers visit to KVK	52									
Diagnostic visits	12									
Exposure visits	12									
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	1									
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	5									
Others (pl. specify)										
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)	
CEREALS			**KVK Farm under organic certified**	**Farmer Field**
	wheat	GW-322, DBW-303	20.00	100.00
	Paddy	Kranti	00.00	50.00
		JR-206	60.00	50.00
		Pusa- 1692	60.00	
		JR-10	20.00	
OILSEEDS				
	Mustard	Giriraj (DRMRIJ31)	10.00	
PULSES				
	Chickpea	RVG-202	10.00	20.00
	Green gram	MH- 421	25.00	20.00
		MH-1142	10.00	10.00
VEGETABLES				
	Broccoli		300	
	Capsicum		300	
	Brinjal		300	
	Chilly		300	
	Tomato		400	
	Cucurbitaceous vegetables		300	
	Onion		2700	
FLOWER CROPS				
	Rose	Deshi	200	
	Marigold	Pusa Narangi	200	
	Total		2300 plant samplings	
OTHERS (Specify)	PROM	Govind Prom	300 Quintal	
Liquid Biofertilizers			3600 litre	
	wheat	GW-322, DBW-303	100.00	
	Paddy	Kranti	50.00	
		JR-206	100.00	
		Pusa- 1692	10	
		Pusa 1847	10	
	soybean	JS- 2098	250	
		RVS 2002-4	250	
	Greengram	MH- 421	10	
		PDM-139	10	

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Dasheri	50
	Guava	Lucknow 49	50
SPICES			
VEGETABLES	Broccoli	Saki	300
	Capsicum	Delisa	300
	Brinjal	VNR Harsh	300

	Chilly	Kashi Anmol	300
	Tomato	Kashi Shrestha	300
	Cucurbitaceous vegetables	Kashi Ganga, shreya	300
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
No. of Soil Sample			500 samples

Bio-products

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

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	**Sahiwal**	**107**	
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
March 2024	3 months	1000
June 2025	3 months	1000
Sep 2024	3 months	1000
Dec 2024	3 months	1000

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)
BOOK	2	200
BOOK CHAPTER	1	

Type	Number (Please don't give mass please fill number only)	Number of copies printed (Please don't give mass please fill number only)
LEAFLET	6	6000
POPULAR ARTICLE	10	
TRAINING MANUAL	20	
RADIO TALK	3	Mass
CRAFT TRAINING	1	
Pumplets/folder	12	

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Youtube channel	Short video for Farmer	
2	Youtube channel	Natural farming	
3	Social media	All success story & natural farming method	

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
2	Rural Youth	4
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	5
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	Jhiriya jhora	Bankhedi	10
2	Poudi, Kesala	Bankhedi	13 Km
3	Maharaj ganj	Bankhedi	15 Km
4	Jhiriya	Bankhedi	11 Km
5	Najarkheda	Bankhedi	9 Km

1. No. of farm families selected per village : 3
2. No. of survey/PRA to be conducted: 2

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	FULLY AUTOMATIC DOUBLE BEAM ATOMIC ABSORPTION SPECTROPHOTOMETER MODEL AAS-4141 WITH PC & PRINTER	1	working
2	Smart UV-VIS Spectrophotometer Double Beam & Graphic LCD) with PC Link Software	1	working
3	µC based Flame Photometer with Na, K Filters, Compressor, Auto ignition facility with 5 filter option	1	working

4	Electronic Balance 2 Digit 0.01GM Capacity (600gm-0.01gm)	1	working
5	Electronic Balance 3 Digit 1.000 MG Capacity (300gm-1mg)	1	working
6	Hot Plate Rectangular with cast Iron top	1	working
7	Water Distellation unit mono quartz	1	working
8	KEL Plus Nitrogen Analyzer	1	working
9	Rotary Shaker 25 Flask (02 No.)	1	working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	50	
Water Samples				
Total				

LINKAGES
Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Trainings , Extension Activities
IFFCO	Trainings , Extension Activities
RELIANCE FOUNDATION	Trainings , Extension Activities
NGO	Trainings , Extension Activities

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

Name of Programme	Nature of linkage
Trainings , Extension Activities like 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

Month	Activity details	Targeted Beneficiaries
Natural Farming		
Through the year	Natural Farming, Demonstration	12
	Training on Natural farming	100
	Awareness Programme on Natural farming	100
	Natural farming exposure visit	100
CBBO		
January- March	CBBO FPO exposure visit	10
April - June	CBBO FPO exposure visit	10
July- September	CBBO FPO exposure visit	10
January- March	CBBO FPO exposure visit	10
April - June	CBBO FPO exposure visit	10

July- September	CBBO FPO exposure visit	10
ARYA		
January	Exposure visit to Youth in different production unit, progressive farmers or entrepreneurs filed etc.	100 youths
February	Input support for unit establishment of production unit	50 youth (in different component)
March	Convergence with state and Central Govt. scheme	100 youth (in different component)
April	Field visit and documentation (successful entrepreneur)	100 youth (in different component)
May	Identification of new youth	200 youths
June	Resource mapping of selected youth	200 youths
July	Input support for unit establishment of production unit	50 youths
August	Convergence with state and Central Govt. scheme	100 youth
September	Capacity building programme for Rural youth	200 youths
October	Field visit and documentation (successful entrepreneur)	100 youths
November	Capacity building programme for Rural youth	200 youths
December	Exposure visit to Youth in different production unit, progressive farmers or entrepreneurs filed etc.	100 youths
October	Nursery management training	25
December	Nursery management training	25
Drone		
Throughout the year	Sugarcane	100
August-October	Rice	50
Dec. to Feb.	Wheat	50
March - May	Greengram	50

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 10 Sq m

Crop	**Season**	**No. of Variety**	**Particulars /details**	**Area (Sq m)**
Green Gram	SUMMER -2023	4	Demonstration to farmers	92.5
Paddy	Kharif 2023	4	Demonstration to farmers	133
Sesame	Kharif 2023	4	Demonstration to farmers	25
Major and Minor millets	Kharif 2023	12	Demonstration to farmers	160
Soybean	kharif 2023	4	Demonstration to farmers	92.5
Wheat	Rabi 2023-24	7	Demonstration to farmers	268
Chickpea	Rabi 2023-24	7	Demonstration to farmers	133
Mustard	Rabi 2023-24	4	Demonstration to farmers	26
Lentil	Rabi 2023-24	4	Demonstration to farmers	13.5

Details of Demonstration Unit at KVK

Demonstration Unit	**Particulars /details**	**Area (Sq m)**	**Output /Production**
Natural Farming unit	Ghan jeevamrit, Jeevamrit, Dashparni Ark, Neemastra	0.1	1000 q., 5000 L., 1000 L., 1000 L.
Natural Farming Demo. field	Chickpea, Paddy, Wheat,	0.4	20 q
Vegetable Demonstration Unit	vegetable Demonstration unit	10,000	Production of Organic vegetables
Shade net	Vegetable, Fruit, Flower nursery preparation	100	2300 plant saplings production
Nutritional garden	sessional vegetable	400	150 KG
Intensive crop production model	Promotion of Kusmi Lac on Flemengia semilata and intercropping with different vegetables (in different session) in backyard.	300	Kusmi Lac: in Kg. Vegetables, etc. in kg
Liquid Biofertilizers Production Unit	Azospirilum Consortium	-	250 l
	Rhizobium sp. Consortium	-	250 l
	Bacillus Sp. Consortium	-	250 l
	Iron Consortium	-	250 l
	Metarhigium Sp. Consortium	-	250 l
Soil Testing Laboratory	-	50	Soil testing
Liquid Biofertilizer Unit	-	50	Govind Liquid Biofertilizer
PROM Unit	-	192	Prom Production
Mushroom unit	Oster mushroom ,Button mushroom	100	50KG
Nutritional garden	Sessional Vegetable	400	150 KG

ANNUAL ACTION PLAN 2024

KVK Indore

Year of sanction:1976

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.S. Tailor (Incharge)	0731-2874151	9479828937	kvk_indore@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	Vacant								
2	Subject Matter Specialist	Dr. Radheshyam Tailor	Subject Matter Specialist	Agril. Extension	Level 10	27/04/2002	2002	9425963891	kvk_indore @rediffmail. com	
3	Subject Matter Specialist	Dr. Dilip Kumar Mishra	Subject Matter Specialist	Horticulture	Level 10	06/07/2002	2002	9826041819	-do-	
4	Subject Matter Specialist	Dr. Shri Ram Dadhich	Subject Matter Specialist	Vety. & A.H.	Level 10	26/12/2005	2005	9826378767	-do-	
5	Subject Matter Specialist	Dr. Arpna Bajpai	Subject Matter Specialist	Agri. Engg.	Level 10	07/04/2022	2022	9115731211	-do-	
6	Subject Matter Specialist	MS. Archana Kumari	Subject Matter Specialist5	Home Science	Level 10	06/08/2015	2015	7745993444	-do-	
7	Subject Matter Specialist	Mr. Arun Kumar Shukla	Subject Matter Specialist6	Agronomy	Level 10	11/08/2015	2015	9425763527	-do-	
8	Programme Assistant	Mr. Nitin Kumar Pachlaniya	Programme Assistant	Soil Sc.	Level 6	01/09/2014	2014	9893153955	-do-	
9	Computer Programmer/ Programme Assistant	Mr. Adarsh Tiwari	Programme Assistant (Computer)	Computer Science	Level 6	18/12/2002	2002	9425954130	-do-	
10	Farm Manager	Mr. Rakesh Jain	Farm Manager	Agril. Extension	Level 6	01/03/2013	2013	9827795720	-do-	
11	Assistant	Mr. Anurag Tiwari	Accountant / superintendent	Commerce	Level 6	11/04/2011	2011	9617760420	-do-	
12	Jr. Stenographer / Comp. Operator	Mr. K. Chanchal	Stenographer	-	Level 4	07/08/2015	2015	8982905158	-do-	
13	Driver	Mr. Vijendra Chouhan	Driver	-	Level 3	10/03/2004	2004	9165566085	-do-	
14	Driver	Mr. Prakash Ravat	Driver	-	Level 3	19/08/2014	2014	7047256550	-do-	
15	Supporting staff	Mr. Satish Baghela	Supporting staff	-	Level 1	09/03/2004	2004	9179631246	-do-	
16	Supporting staff	Mr. O.P. Mansare	Supporting staff	-	Level 1	16/08/2014	2014	9977079716	-do-	

1.3 Total land with KVK (in ha):20.077

S. No.	Item	Area (ha)
1	Under Buildings	0.25
2	Under Demonstration Units	0.027
3	Under Crops	19.8
4	Orchard/Agro-forestry	-
5	Others (specify)	-
Total		**20.077**

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. in Lakh)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	23.02.2019	573.39	144.38	-	-	-
2.	Farmers Hostel	ICAR	1979-80	589.93	-	-	-	-
3.	Staff Quarters (6)	ICAR	1979-80	445	-	-	-	-
4.	Fencing	Revolving Fund	2016		-	-	-	-
5	Threshing floor	ICAR	2006	627.1	12.13	-	-	-
6	Implement Shed	Revolving Fund	31.03.2022			-	-	-
7	Poly House	-	-	-	-	-	-	-
8	Net House	-	-	-	-	-	-	-
9	Azola Unit	Revolving Fund	31.03.2018	6.68	0.10	-	-	-
10	Demonstration Units (Vermicompost Unit)	Revolving Fund	31.03.2007	111.5	1.5	-	-	-
11	Demonstration Units	-	-			-	-	-
12	Godown	ICAR	2006	139.3	with threshing floor	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2016	723282	85919	Working
Motor Cycle	2007	44679	81543	Working
Tractor	2018	949550	1739.5	Working

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2015	39000	Working
Xerox Machine	2015	78962	Working
Video Camera	2016	42500	Working
Computer, Laser Printer	2016	40704	Working
Inverter 3 KVA	2017	13500	Working
Inverter Battery (4)	2020	52600	Working
All in one	2022	59000	working
Projector	2022	31800	Working
Computer	2022	43500	Working
Screen	2022	8500	Working
Online Inverter	2022	26500	Working

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

Sl. No.	Tentative Date
1	May 24
2	Oct 24

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/Chickpea Soybean-Garlic Soybean-Potato-Wheat/Chickpea

		Soybean-Potato-Onion
2	AES – 2	Soybean-Wheat/Chickpea Soybean-Garlic Soybean-Potato-Wheat/Chickpea Soybean-Potato-Onion

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Medium Black vertisol, Low Nitrogen, Medium Phosphorus, Rich in Potash 72% of total geographical area plain topography, Average Rainfall 952 mm
2	AES - 2	Medium Black vertisol, Low Nitrogen, Medium Phosphorus, Rich in Potash 28% of total geographical area undulated and plain topography, Average Rainfall 952 mm

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Indore)

00

Strength	Weakness	Opportunities	Threats
• Plain topography • Favorable climatic condition, • Well irrigation facility. Well transportation facility, • Proxcymity to the city.	• Uneven weather condition • Deteriorating soil health condition • Lack of organic matter • No use of recommender variety by the farmer	There is a good scope of cultivation of export quality of wheat, potato, and Garlic. Also there is a very good scope of cultivation of Marigold, Chrysanthemum, Aster and Medicinal crop in the surrounding villages of Indore district.	• Extreme weather condition • Heavy insect pest infestation due to use of old cultivars • Stagnant. yield due to continuous same cropping system • Insect pest resistant due to over dose use of insecticide and pesticide

AES-2 (Mhow)

Strength	Weakness	Opportunities	Threats
• Favorable climatic condition, • Well irrigation facility. • Well transportation facility, • Nutrient rich soil most of the area	• Uneven weather condition • Uneven topography • Light soil in some of the area • No use of recommended variety by the farmer	There is a good scope of cultivation of export quality of wheat, potato, and Garlic. Also there is a very good scope of cultivation of Marigold, Chrysanthemum, Aster and Medicinal crop in the surrounding villages of Indore district.	• Extreme weather condition • Heavy insect pest infestation due to use of old cultivars • Stagnant. yield due to continuous same cropping system • Insect pest resistant due to over dose use of insecticide and pesticide

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	383.2
Forest	52.2
Waste Land	27.2
Other than cultivated area	-
Cultivable land	264.2
Pastures	-
Bushes	-
Current Fallow	2.3
Other Fallow	25.2
Agricultural Land	254.9
Area Sown	264.2
Kharif	220.0
Rabi	264.2
Zaid	-

Cropping Intensity	165.1

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	17700
2	Well	18300
3	Tube well	118200
4	Ponds	5100
5	Others	-

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Deep soils	Good water holding capacity, swelling and shrinking	237.2
2	Shallow soils	Medium water holding capacity, swelling and shrinking	130.0

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	Soybean	219800	3861380	17.50
2	Maize	900	233040	25.60
3	Sorghum	200	1380	19.30
4	Wheat	127200	8399100	45.25
5	Chickpea	32200	269240	14.60
6	Potato	45500	11602500	250.50
7	Onion	14950	4784000	320
8	Garlic	14400	1872000	130

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

Month /Year	Rainfall (m.m.)	Temperature (^{0} C)	
		Maximum	Minimum
Jan, 22	0	28	8
Feb, 22	0	33	9
Mar, 22	0	39	15
Apr, 22	0	42	21
May, 22	0	43	23
Jun, 22	72	41	21
July, 2022	368	32	22
Aug., 2022	266	31	21
Sept., 2022	338	33	20
Oct. 2022	104	34	16
Nov. 2022	0	33	11
Dec. 2022	0	29	10

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	239877	354.9 MT	1.47 kg
Buffalo	173194	290.38 MT	1.67 kg
Sheep			
1.67Crossbred/ Indigenous	219	00 MT wool	00 kg
Goats	144673	10.12 MT	-
Pigs *Crossbred/ Indigenous*	749	-	-
Rabbits	-	-	-
Poultry			
Hens	679528	2362.98 Lakh eggs	…… eggs/ bird/yr
Turkey and others			
Category	**Area**	**Production**	**Productivity**
Fish	5404.963 (ha)	83900 Q/ month	1552 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.	Depalpur	Depalpur	Naugaon	Soybean, Chickpea, Wheat, Garlic, Onion	Imbalance use of fertilizer	To enhance crop productivity through IPNMS
2.	Mhow	Mhow	Olani, Mukata	Soybean, Wheat, Garlic, Onion	No use of biofertilizer	To promote use of biofertilizer
3.	Depalpur	Depalpur	Machal, Shahpura	Soybean, Chickpea, Wheat, Garlic, Onion, Potato	No use of improved sowing technique	Soil water conservation
4.	Mhow	Mhow	Shivnagar	Soybean, Chickpea, Wheat, Garlic, Onion, Potato	Nutrient deficiency	Nutritional gardening.
5.	Indore	Indore	Bhondwas	Soybean, Chickpea, Wheat, Garlic, Onion, Potato	No use of biofertilizer	To promote use of biofertilizer
6.	Sanwer	Sanwer	Pipliya Malhar	Soybean, Chickpea, Wheat, Garlic, Onion	No use of improved implement	Use of improved harvesting implement

Priority / Thrust areas

S. No.	Particulars
1.	To enhance productivity of oilseed crops through varietal diversification, Integrated Plant Nutrient Management System (IPNMS), Integrated Pest Management (IPM), Integrated Disease Management (IDM), Weed management and scientific management practices.
2.	To enhance productivity of Pulse crops through varietal diversification, Integrated Plant Nutrient Management System (IPNMS), Integrated Pest Management (IPM), Integrated Disease Management (IDM), Weed management and scientific management practices.
3.	To enhance productivity of cereals through varietal diversification, Integrated Plant Nutrient Management System (IPNMS), Integrated Pest Management (IPM), Integrated Disease Management (IDM), Weed management and scientific management practices.
4.	To increase seed replacement rate by seed production programme in Soybean, Wheat and Gram.
5.	To reduce cost of cultivation by scientific and improve low cost production technologies.
6.	To aware the farmers about organic farming practices, resource conservation technologies and natural resource management and to motivate the farmers for adopting these technologies.
7.	To increase risk bearing ability by crop diversification, introduction of more remunerative cropping systems, Agrohorti system, Agroforestry system and live stock based farming systems. Introduction of medicinal and aromatic crops.
8.	To motivate the farmers for preparation and use of well decomposed, nutrient rich organic manure (Vermicompost, NADEP compost, Phospho compost etc.) along with biofertilizers and balanced use of chemical fertilizers (on soil test basis)
9.	To improve the Water productivity and Water Use Efficiency by scientific water management practices
10.	To increase the availability of green fodder through the year for increasing milk production. Introduction of new fodder and forage crops in existing fodder based cropping system.
11.	To adopt Plant protection measure for important vegetable and flowers crops.
12.	Use of micronutrient and hormones to enhance productivity and quality of vegetable and flower crops.
13.	Diversification of farming system through other field crops.
14.	Diversification of farming system through flower and vegetable cultivation.
15.	To improve the productivity and quality of Garlic and Potato.
16.	Introduction of open cultivated flower crops.
17.	Popularization of Soya products in rural area.
18.	Nutritional gardening.
19.	Control and management of stored grain pest.
20.	To introduce income generating skills among the youth

21.	To increase milk production by adopting balance diet and mineral nutrition.
22.	To reduce mortality percentage of calves through proper management.
23.	Adaptation of proper immunization programme.
24.	Control of Endo and Ecto parasites.
25.	Proper utilization of fodder and crop residues chopping, urea treatment, complete feedings etc.
27.	Dissemination of seed treatment and biological control techniques.
28.	Identification of major insect pest of Soybean.
29.	Efficient use of available irrigation water
30.	Reduction in labour requirement by using improved implements
31.	To enhance soil and water conservation practices
32.	Improvement in tillage practices
33.	Improvement in crop harvesting technology
34.	Care and maintenance of plant protection equipments
35.	To aware farmers about advantages of soil testing
36	To promote natural farming

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	164	41 ha (21 FLD)	236

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
83	1680	196	41647

Seed Production (Qtl.)	Planting material (Nos.)
421	10000

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
Improved variety	3	3	2	-	-	-	-	-	-	**8**
INM	1	2	1	-	4		1	-	-	**9**
Natural Farming	-		2	-	1	-	-	-	-	**3**
Value Addition	-	1	-	-	-	-	-	-	-	**1**
Nutrition Security	1	1	-	-	1	-	-	-	-	**3**
Improved Implement	-	1	-	-	1	-	-	-	-	**2**
Precision agriculture	-	-	-	-	1	-	-	-	-	**1**
Storage Practices	1	-	-	-	1	-	-	-	-	**2**
Others	1	1	1	-	-	-	-	-	-	**3**
TOTAL	**7**	**9**	**6**	**-**	**9**	-	**1**	-	-	**32**

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 Nutrition	4	-	-	-	-	-	-	**4**
Animal Disease management	1	-	-	-	-	-	-	**1**
TOTAL	5	-	-	-	-	-	-	**5**

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Wheat Variety Pusa Ahilya (HI-1634) for late sowing condition	
Problem diagnosed	Low yield due to old variety	
Farmers' Practices	Use of Navin Chandosi (HI-1418)	
Details of technologies selected for assessment	T_1	Use of Navin Chandosi (HI-1418)
	T_2	Use of improved variety Pusa Ahilya
Source of technology	IARI, Indore (2020)	
Plot size	0.25 ha.	
No. of farmers	10	
Total cost	16500	
Critical input	Seed	
(i) Performance indicators:	No. of tillers/plant, Yield (q/ha), Economics	

OFT-2

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Chickpea Variety Pusa Parwati BG 3062	
Problem diagnosed	yield loss due to wilt and dry root rot problem	
Farmers' Practices	Use of old variety (Vishal)	
Details of technologies selected for assessment	T_1	Use of old variety (JAKI 9218)
	T_2	Improved variety BG 3062
Source of technology	IARI New Delhi (2020)	
Plot size	0.25 ha.	
No. of farmers	10	
Total cost	18000	
Critical input	Seed	
(ii) Performance indicators:	Yield (q/ha), No. of pods/plant, Economics	

OFT-3

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of improved variety NRC 130 of Soybean	
Problem diagnosed	yield loss due to Infestation of YMV, Anthracnose and Pod blight	
Farmers' Practices	Use of old variety (Vishal)	
Details of technologies selected for assessment	T1	Use of old variety JS 9560
	T2	Improved variety NRC 130 of soybean
Source of technology	IISR	
Plot size	0.25 ha.	
No. of farmers	10	
Total cost	27000	
Critical input	Seed	
Performance indicators:	Seed Index(g), crop yield (q/ha), Economics	

OFT-4

Crop / Enterprise	Larkspur (Flower)	
Title of on farm trial	Assessment of Larkspur cultivation as cut flower	
Problem diagnosed	Hesitation for introduction of new cut flower for commercial purpose	
Farmers' Practices	300-64- 32 (Urea 600 kg) ,NPK 12-32-16 (200 kg) & No use of Biofertilizer	
Details of technologies selected for assessment	T1	Application of RDF (150 – 50- 60) on STV basis
	T2	75 % N& P with Use of Biofertilizer (Azospirilum & PSB 5 Kg/ha)

Source of technology	DOFR
Plot size	0.20 ha.
No. of farmers	5
Total cost	5000
Critical input	Cut flower
Performance indicators:	**Suitability , Yield & economics**

OFT-5

Crop / Enterprise	Pumpkin	
Title of on farm trial	Assessment of yield & Economics of Jivaamrit application in Pumpkin	
Problem diagnosed	Dependency on inorganic fertilizers & pesticide for cultivation of pumpkin	
Farmers' Practices	100 % use of inorganic fertilizers and pesticide for crop management.	
Details of technologies selected for assessment	T1	100 % use of inorganic fertilizers and pesticide for crop management.
	T2	Use of Jivaamrit in crop nutritional management (200 lit./acre with irrigation)
Source of technology	Prakritik Kheti By Acharya Devvrat	
Plot size	0.25 ha.	
No. of farmers	05	
Total cost	Rs. 2500	
Critical input	Jeevaamrit ,brahmastra & Neemastra	
(iii) Performance indicators:	Yield, Cost of Cultivation & feasibility	

OFT-6

1	Crop / Enterprise	Chickpea (Soil Sc.)	
2	Title of on farm trial	Assessment of INM in Chickpea	
3	Problem diagnosed	No use of biofertilizer and Low yield due to imbalance use of fertilizer	
4	Farming situation	Irrigated	
5	Farmers' Practices	No use of biofertilizer.	
6	Details of technologies selectedfor assessment	T1	100% RDF + No use of bio fertilizer
7		T2	75% RDF + Seed treatment with NPK Consortia @10 ml. per kg seed
8	Source of technology	JNKVV (2009)	
9	Plot size	0.25 ha.	
10	No. of farmers	10	
11	Cost of input	200	
12	Total cost	2500	
13	Critical input	Liquid NPK consortia	
14	Performance indicators: (iv) Growth and Yield attributes (v) Technical- **yield (q/ ha)** (vi) Economic (vii) Social – **Employment generation**	No. of pods/plant, Yield (kg/ha), No. of nodule/plant, Economics (net return and B:C ratio)	

OFT-7

1	Crop / Enterprise	Soybean (Soil Sc.)	
2	Title of on farm trial	Assessment of Jivamrut and Ghanamrut for nutrient management in soybean	
3	Problem diagnosed	Excess use of chemical fertilizer and deficient use of organic manures	
4	Farming situation	Rainfed	
5	Farmers' Practices	Use of chemical fertilizer	
6	Details of technologies selectedfor assessment	T1	Use of RDF
7		T2	Use of Jivamrut (3 spray at 21 days interval @ 10 lit/150ml of water and Ghanamrut (500 kg/ha)
8	Source of technology	NCOF, Ghaziabad	
9	Plot size	0.25 ha.	
10	No. of farmers	10	
11	Cost of input	100	
12	Total cost	1000	
13	Critical input	Liquid NPK consortia	

14	Performance indicators: (viii) Growth and Yield attributes (ix) Technical- **yield (q/ ha)** (x) Economic (xi) Social – **Employment generation**	No. of pods/plant, Yield (kg/ha), No. of nodule/plant, Economics (net return and B:C ratio)

OFT-8

Crop/Enterprise	Tomato
Title of on-farm trial	Assessment of insect proof net for raising tomato seedling
Problem diagnosed	Seedling infestation by white fly and leaf minor in open field condition
Farming situation	Irrigated
Production system and thematic area	Precision Agriculture
Farmers' practices	Raising tomato seedling under open field condition
Details of technologies selected for assessment/refinement Treatments	T1 : Seedling raising under open field condition T2 : Use of insect proof net structure for raising tomato seedling
Source of technology	CIAE Bhopal (PFDC)
Plot size	5 sq. m.
No. of farmers	10
Critical input	Low tunnel structure material (Insect proof net, sticks/bamboo, Thread, clips)
Cost of input	Rs. 500/-
Total cost	Rs. 5500/-
Performance indicators:	Infected seedling (no/sq.m.), Mortality, growth of sapling, Economics (B:C ratio)

OFT-9

Crop/Enterprise	Garlic
Title of on-farm trial	Assessment of Laser pipe (Rain hose) Irrigation System for Garlic
Problem diagnosed	Uneven moisture distribution and use of excess irrigation water adversely affect the yield and germination of garlic.
Farming situation	Irrigated
Production system and thematic area	Improved Irrigation method
Farmers' practices	T1 : Use of flood Irrigation System
Details of technologies selected for assessment Treatments	T2 : Use of Laser pipe (Rain hose) Irrigation System
Source of technology	ICAR- Directorate of Onion and Garlic Research, Rajgurunagar, Maharastra
No. of farmers	10
Area of each trial	0.25 ha
No of trial	10
Critical input	Laser pipe (Rain hose)

Performance indicators Observation to be recorded	Soil moisture (%),Yield (kg/ha.),water saving (%), water productivity (kg/m3), Economics (B:C ratio)
Cost of input	Rs. 1500/- per trial
Total cost	Rs. 20000/-

OFT-10

Crop/Enterprise	Wheat / Ag. Engg.
Title of on-farm trial	Assessment of Mulcher for straw management
Problem diagnosed	• Harvesting by the combine harvester resulting in large wheat stalk on field, which gives difficulty at the time of sowing of Soybean • Burning of straw by the farmers
Farming situation	Irrigated
Production system and thematic area	Improved Implement
Farmers' practices	Burning of wheat straw
Details of technologies selected for assessment Treatments	Use of mulcher machine for straw management
Source of technology	Jawaharlal Nehru Agricultural University, Jabalpur
No. of farmers	10
Area of each trial	0.25
No of trial	10
Critical input	Mulcher Machine
Performance indicators Observation to be recorded	Field Capacity (ha/hr), Cost of Operation (Rs./Ha)
Cost of input	Rs. 1500 per trial
Total cost	Rs. 20000

OFT -11

1	Enterprise	Dairy
2	Title of on-farm trial	Assessment of multi enzymes in daily diets of cow to improve digestibility
3	Problem diagnosed	Poor digestibility due to deficiency of enzymes
4	Farming situation	-
5	Production system and thematic area	-
6	Farmers' practices	No supplementation of multi enzymes in diet of animals
7	Details of technologies selected for assessment/refinement Treatments	: T_1 : No supplementation of multi enzymes in diet of animals : T_2 : Use of multi enzymes powder 3-5 g/day in daily diets
8	Source of technology	IVRI
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Trace minerals Powder
12	Cost of input	Rs. 5000/-
13	Total cost	**Rs. 6200/-**
14	Performance indicators Observation to be recorded	estrus onset rate, conception rate

OFT -12

1	Crop/Enterprise	Dairy
2	Title of on-farm trial	Assessment of multi enzymes in daily diets of cow to improve digestibility
3	Problem diagnosed	Poor digestibility due to deficiency of enzymes
4	Farming situation	-
5	Production system and thematic area	Animal nutrition
6	Farmers' practices	T1: No supplementation of multi enzymes in diet of animals
7	Details of technologies selected for assessment/refinement Treatments	T2: Use of multi enzymes powder 3-5 g/day in daily diets
8	Source of technology	IVRI
9	No. of farmers	10
10	No of animals	10
11	Critical input	multi enzymes powder
12	Cost of input	Rs. 1700/-
13	Total cost	Rs. 3000/-
14	Performance indicators Observation to be recorded	milk production (lit/day), B:C Ratio

Information about Extension OFT:

Title	**Assessment of technological gap in Garlic production technology**
Season & Year	2024
Problem identified	High cost of cultivation and low yield
Thematic Area	Impact assessment
Farming situation	-
Name of Technology Intervention under study	**-**
Farmers Practice	-
No. of replication (Farmers)	40

Results / findings

Performance indicators/ parameters	Unit/ details
• size of land holding; • Contact with agricultural institutions, scientists and extension workers; • Participation in agricultural extension programs; • Level of knowledge of garlic production technology; • Level of adoption of garlic production technology; • Constraints adoption of garlic production technology; • Feedback.	-

Information about Home Science OFT - 1:

Title of on-farm trial:	Assessment of soya flour (variety NRC 142)
Year/Season:	2024
Problem diagnosis:	Problem in consumption of soya flour due to presence of trypsin inhibitor
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	7
No. of farmers/farm women involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No value addition in soybean
T2 –Recommended Practice-	**Value addition of soybean through making soya flour from NRC 142 variety (Trypsin inhibitor free variety, easy to make soya flour)**
Source of technology:	IISR 2017
Characteristics of technology:	Trypsin inhibitor free variety, easy to make soya flour
Name of Crop/Enterprises:	Home Sc.
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT - 2:

Title of on-farm trial:	Assessment of value addition of pearl millet (Bajra)
Year/Season:	2024
Problem diagnosis:	No use of Bajra in daily diet
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	7
No. of farmers/farm women involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of Bajra in daily diet
T2 –Recommended Practice-	Use of Bajra flour for nutritional benefits
Source of technology:	IIMR Hyderabad
Characteristics of technology:	Use of Bajra flour for nutritional benefits
Name of Crop/Enterprises:	Home Sc.
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-

Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT - 3:

Crop/Enterprise	Home Sc.
Title of on-farm trial	Assessment of nutrition in school going children by feeding multigrain Laddu
Problem diagnosed	Insufficient nutrition in daily diet
Production system and thematic area	Nutritional security
Farmers' practices	T1: No use of nutritive dish in daily diet
Details of technologies selected for assessment/refinement Treatments	T2: Feeding of multigrain Laddu (50 gm/day) (20% ragi, 20% jaggery, 20% gram, 30% wheat flour, 10% peanuts)
Source of technology	NIN (ICMR) 2015
No. of farmers	5
Area of each trial	-
No of trial	5
Critical input	Multigrain Laddu
Performance indicators Observation to be recorded	Anthropometric measurements (height, weight), hemoglobin
Cost of input	Rs. 400/trial
Total cost	Rs. 2500

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	JS 2069	Seed	Kharif 2024	5	13	Yield (q/ha)
2	Wheat	Improved variety	HI 8759	Seed	Rabi 2024-25	5	13	Yield (q/ha)
3	Chickpea	Natural Farming	Use of Neemastra (200 liter/acre) and Brahmastra (6-8 liter/acre)	Neemastra and Brahmastra	Rabi 2024-25	2.5	10	Pest infestation %
4	Pearl millet (Bajra)	Crop diversification	Pearl millet (Bajra) variety JBV-4	Seed	Kharif 2024	1	5	Yield (q/ha)
5	Garlic	INM	1 litre Liquid biofertilizer consortia (PSB+Azotobactor+ Potassium Mobilizing Bacteria)	Biofertilizer	Rabi 2024-25	2.5	10	Yield (q/ha), Bulb size (cm),

			+ 75 % NPK (RDF 125-60-60 NPK)					
6.	Onion	INM	75 % N & P with Use of Biofertilizer (Azospirilum & PSB 5 Kg/ha each) RDF : 125-60-80	Biofertilizer	Rabi 2024-25	2.5	10	Yield (q/ha), Bulb size (cm),
7.	**Potato**	INM	**Use of Nano Liquid Urea as foliar application in Potato**	**Nano Liquid Urea**	Rabi 2024-25	2.5	10	Yield (q/ha
8.	Onion	INM	Application of sulphur on Soil test basis for optimum production and storage of onion	Bentonite Sulphur	Rabi 2024-25	2.5	10	Yield (q/ha), Bulb size (cm),
9.	Wheat (Soil Sc.)	INM	INM in wheat	Vermicompost (2.5 t/ha) and Biofertilizer (Azotobacter & PSB @ 10 ml/kg seed)	Rabi 2024-25	2.5	10	Yield, Economics
10	Soybean (Soil Sc.)	INM	Use of Liquid Biofertilizer consortia (NPK) for nutritional management in Soybean	NPK consortia(10 ml/kg seed)	Kharif 2024	2.5	10	Yield, Economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	Sept.-24, Feb-24.	200
2	Farmers Training	24	June 24 to Feb. 24	480
3	Media coverage	-	-	-
4	Training for extension functionaries	2	Sept.-24, Feb-24.	40

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Reversible Plough	Soybean	Summer, 2024	10	2.5	Reversible Plough on hiring basis	Weed infestation (no/ sq.m.), Yield (kg/ha) and Economics	Field capacity (ha/hr)	Field capacity (ha/hr)
Raised bed Planter	Soybean	Kharif, 2024	10	2.5	BBF (Broad bed and Furrow system) sowing method for soybean	Soil moisture content (%), Plant Population (no./sq.m), Economics (B:C ratio)	Field capacity (ha/hr)	Field capacity (ha/hr)
Raised bed	Chickpe	Rabi	10	2.5	Raised	Soil moisture content	Field	Field

Planter	a	2024-25			bed Planter on hiring basis	(%), Plant Population (no./sq.m), Economics (B:C ratio)	capacity (ha/hr)	capacity (ha/hr)
Reaper cum binder	Wheat	Rabi 2024-25	10	2.5	Reaper cum binder on hiring basis	Labour Saving (%), cost saving (Rs/ha), Straw saving (%) and Field capacity (ha/hr)	Field capacity (ha/hr)	Field capacity (ha/hr)

**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	10	10	Ca, P and Vit. D supplement in liquid form	Incidence of milk fever, Economics	Milk Yield (lit/day)	Milk Yield (lit/day)
Dairy	Buffalo	10	10	bypass fat (rumen protected fat)	Increase in milk fat %, Economics	Milk Yield (lit/day)	Milk Yield (lit/day)
Dairy	Buffalo	10	10	Use of Rumen specific live yeast culture – (*Saccharomyces cerevesiae*) in Buffalo	Incidence of acidiosis (%)	Milk Yield (lit/day)	Milk Yield (lit/day)

**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**
Nutritional Garden	Vegetable & Fruit	10	0.25 ha	Seed	Nutrient intake	BMI, per capita consumption	BMI, per capita consumption
Storage practices	Maize	10	10	Pro super bag	Germination (%)	Pest infestation (%)	Pest infestation (%)
Nutritional security	Drum stick	10	10	Drum stick crackers	Nutrient intake, sensory evaluation, BMI, per capita consumption	hemoglobin level	hemoglobin level

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	Improved variety	JS 2098	Seed, Seed treatment	Kharif 2024	10	25	Yield (q/ha)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	1	Sept.-24,	50
2	Farmers Training	4	June 24 to Oct. 24	480
3	Media coverage	-	-	-
4	Training for extension functionaries	1	July, Sept.-24,	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	-	-	-	-	-	-	-	-	**-**
Resource Conservation Technologies	-	-	-	-	-	-	-	-	**-**
Integrated Farming	-	-	-	-	-	-	-	-	**-**
Water management	-	-	-	-	-	-	-	-	**-**
Seed production	-	-	-	-	-	-	-	-	**-**
Integrated Crop Management	2	2	40	0	40	0	0	0	**40**
Total	**2**	**2**	**40**	**0**	**40**	**0**	**0**	**0**	**40**
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	-	-	-	-	-	-	-	-	**-**
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	**-**
IPM	1	1	20	-	20	-	-	-	**20**
Total	1	1	20	-	20	-	-	-	**20**
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	1	1	20	-	20	-	-	-	**20**
Grand total (Horticulture)	2	2	40	-	40	-	-	-	**40**
III Soil Health and Fertility Management									
Soil fertility management	1	1	20	-	**20**	-	-	-	**20**
Soil and Water Conservation	-	-	-	-	-	-	-	-	**-**

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	1	1	20	-	**20**	-	-	-	**20**
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	**2**	**2**	**40**	**-**	**40**	**-**	**-**	**-**	**40**
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Women and child care	2	2		40	40	-	-	-	**40**
Total	**2**	**2**		**40**	**40**	**-**	**-**	**-**	**40**
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	-	-	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)									
Grand Total	**8**	**8**	**120**	**40**	**160**	**0**	**0**	**0**	**160**
(B) RURAL YOUTH									
Mushroom Production	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-
Natural Farming	**1**	**2**	**20**	**-**	**20**	**-**	**-**	**-**	**20**
Dairy Management	1	6	20	-	20	-	-	-	20
Soil Testing	1	6	20	-	20	-	-	-	20
Irrigation and water management	1	1	20	-	20	-	-	-	20
Designing and development for high nutrient efficiency diet	1	1	-	20	20	-	-	-	20
Ornamental Plants	1	1	20	20	20	-	-	-	20
Nursery Rising	2	49	40	-	40	-	-	-	40
TOTAL	**8**	**66**	**140**	**20**	**160**	**0**	**0**	**0**	**160**
(C) Extension Personnel									
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-
Integrated Nutrient	2	2	40	-	40	-	-	-	**40**

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
management									
Protected cultivation technology	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	2	2	40	-	40	-	-	-	40
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Other (Natural Farming)	1	2	20	-	20	-	-	-	20
Other (Crop Diverisification)	1	2	20	-	20	-	-	-	20
Nutritional Security	1	1	-	-	-	-	20	20	20
Designing and development for high nutrient efficiency diet	1	1	-	20	20	-	-	-	20
Precision farming	1	1	20	-	20	-	-	-	20
TOTAL	**9**	**11**	**140**	**20**	**160**	**0**	**20**	**20**	**180**
Grand Total	**25**	**85**	**400**	**80**	**480**	**0**	**20**	**20**	**500**

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	2	40	-	40	-	-	-	40
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	1	1	20	-	20	-	-	-	20
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Other (Natural Farming)	3	3	60	-	60	-	-	-	60
IPM	3	3	60	-	60	-	-	-	60
Total	**9**	**9**	**180**	**0**	**180**	**0**	**0**	**0**	**180**
II Horticulture									
a) Vegetable Crops									
Nursery raising	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net	-	-	-	-	-	-	-	-	-

etc.)									
IPM	2	2	40	-	40	-	-	-	40
INM	4	4	80	-	80	-	-	-	80
Off season vegetables	1	1	20	-	20	-	-	-	20
b) Fruits									
Cultivation of Fruit	-	-	-	-	-	-	-	-	**-**
Management of young plants/orchards	1	1	20	-	20	-	-	-	**20**
Export potential of ornamental plants	-	-	-	-	-	-	-	-	**-**
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	**-**
d) Plantation crops									
INM	2	2	40	-	40	-	-	-	**40**
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
Total	**10**	**10**	**200**	**-**	**200**	**-**	**-**	**-**	**200**
III Soil Health and Fertility Management									
Soil fertility management	4	4	80	-	80	-	-	-	**80**
Soil and Water Conservation	-	-	-	-	-	-	-	-	**-**
Integrated Nutrient Management	3	3	60	-	60	-	-	-	**60**
Production and use of organic inputs	**1**	**1**	**20**	**-**	**20**	**-**	**-**	**-**	**20**
Management of Problematic soils	-	-	-	-	-	-	-	-	**-**
Micro nutrient deficiency in crops	2	2	40	-	40	-	-	-	**40**
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	**-**
Soil and Water Testing	-	-	-	-	-	-	-	-	**-**
Total	**10**	**10**	**200**		**200**				**200**
IV Livestock Production and Management									
Dairy Management	3	3	60		60				60
Poultry Management	-	-	-	-	-	-	-	-	**-**
Disease Management	4	4	80		80				80
Feed management	4	4	80		80				80
Production of quality animal products	-	-	-	-	-	-	-	-	**-**
Total	**11**	**11**	**220**		**220**				**220**
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	1	-	20	20	-	-	-	**20**
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	3	3	-	60	60	-	-	-	**60**
Income generation activities for empowerment of rural Women	1	1	-	20	20	-	-	-	**20**
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	**-**
Rural Crafts	-	-	-	-	-	-	-	-	**-**
Women and child care	-	-	-	-	-	-	-	-	**-**
Nutrition security	3	3	-	60	60	-	-	-	**60**
Total	**8**	**8**	**0**	**160**	**160**	**0**	**0**	**0**	**160**
VI Agril. Engineering									
Farm mechanization	3	3	-	60	60	-	-	-	**60**
Improved Implement	3	3	-	60	60	-	-	-	**60**
Improved Sowing method	2	2	-	40	40	-	-	-	**40**
Irrigation and water management	1	1	-	20	20	-	-	-	20
Precision farming	1	1	-	20	20	-	-	-	20
Total	**10**	**10**	**0**	**200**	**200**	**0**	**0**	**0**	**200**
VII Plant Protection									
Integrated Pest Management	-	-	-	-	-	-	-	-	**-**
Integrated Disease Management	-	-	-	-	-	-	-	-	**-**
Bio-control of pests and diseases	-	-	-	-	-	-	-	-	**-**
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	**-**
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development	-	-	-	-	-	-	-	-	**-**
Group dynamics	-	-	-	-	-	-	-	-	**-**
Formation and Management of SHGs	-	-	-	-	-	-	-	-	**-**
Mobilization of social capital	-	-	-	-	-	-	-	-	**-**
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	**-**
WTO and IPR issues	-	-	-	-	-	-	-	-	**-**
XI Agro-forestry									
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	**-**
TOTAL	-	-	-	-	-	-	-	-	**-**
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	**-**
TOTAL	-	-	-	-	-	-	-	-	**-**
(C) Extension Personnel	-	-	-	-	-	-	-	-	**-**
TOTAL	-	-	-	-	-	-	-	-	**-**
Grand Total	**58**	**58**	**800**	**360**	**1160**	**0**	**0**	**0**	**1160**

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										
Oct	PF	Sowing technique and seed treatment in chickpea	1	20	-	20	-	-	-	20
Nov	PF	Sowing tech. & seed treatment of wheat	1	20	-	20	-	-	-	20
Horticulture										
Apr	PF	Fruit fly management in cucurbits	1	20	-	20	-	-	-	**20**
Livestock production										
Home Science										
Mar.	PF	Importance of mothers milk for infants	1	20	-	20	-	-	-	20
Dec.	PF	Awareness about cleaning and hygiene	1	20	-	20	-	-	-	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
May	PF	Soil Health Management and method of soil sampling	1	20	-	20	-	-	-	20
July	PF	Use of micronutrient in soybean	1	20	-	20	-	-	-	20
Total	**7**		**7**	**140**	**-**	**140**	**-**	**-**	**-**	**140**

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	PF	Mitigation of moisture stress in soybean	1	20	-	20	-	-	-	20
Mar	PF	Improved technology of summer moong	1	20	-	20	-	-	-	20
July	PF	Control of stem and white fly in soybean	1	20	-	20	-	-	-	20
Nov	PF	Management of fall army in wheat	1	20	-	20	-	-	-	20
Jan	PF	Management of pod borer in chickpea	1	20	-	20	-	-	-	20
June	PF	Use of Jeevamrut in soybean	1	20	-	20	-	-	-	20
July	PF	Use of Agnyastra in Soybean	1	20	-	20	-	-	-	20
Nov	PF	Use of Nimastra and Brahmastra in Chickpea	1	20	-	20	-	-	-	20
June	PF	Weed management in oilseed	1	20	-	20	-	-	-	20
Dec	PF	Weed Management in Wheat	1	20	-	20	-	-	-	20
Horticulture										
Apr	PF	Insect management in sponge guard	1	20	-	20	-	-	-	20
Aug	PF	INM in marigold	1	20	-	20	-	-	-	20
July	PF	Fruit Fly management in cucumber	1	20	-	20	-	-	-	20
July	PF	Fruit plantation technique	1	20	-	20	-	-	-	20
Oct	PF	INM in Garlic	1	20	-	20	-	-	-	20
Nov	PF	Micro nutrient application in Garlic	1	20	-	20	-	-	-	20
Mar	PF	Growing summer cucumber	1	20	-	20	-	-	-	20
Dec	PF	INM in onion	1	20	-	20	-	-	-	20
Feb	PF	Agro Practice for enhancing storage in onion	1	20	-	20	-	-	-	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	
Livestock production										
Feb	PF	Scientific feeding of goats	1	20	-	20	-	-	-	20
June	PF	Green fodder production round the year	1	20	-	20	-	-	-	20
June	PF	Prevention and control of contagious diseases	1	20	-	20	-	-	-	20
Feb	PF	Management of mastitis in dairy animals	1	20	-	20	-	-	-	20
Apr	PF	Management of dairy animals in summer.	1	20	-	20	-	-	-	20
Mar	PF	Improved animal husbandry practices.	1	20	-	20	-	-	-	20
May	PF	Importance of deworming in dairy animal.	1	20	-	20	-	-	-	20
May	PF	Azolla Cultivation for Dairy	1	20	-	20	-	-	-	20
Oct	PF	Care of Dairy Animal in Winter season	1	20	-	20	-	-	-	20
Aug	PF	Importance of vit. min mixture	1	20	-	20	-	-	-	20
Jan	PF	Prevention and control of Lumpy skin disease	1	20	-	20	-	-	-	20
Home Science										
Jan	PF	Role of moringa Oleifera for health benefit	1	20	-	20	-	-	-	20
Feb	PF	Value addition of soybean by making milk, soya nut	1	20	-	20	-	-	-	20
Mar	PF	Value addition of soybean (Soya flour)	1	20	-	20	-	-	-	20
Apr	PF	Women entrepreneurship development through SHG	1	20	-	20	-	-	-	20
May	PF	Storage of pulses through pro super	1	20	-	20	-	-	-	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	
		bag								
June	PF	Nutritional garden for nutritional security	1	20	-	20	-	-	-	20
July	PF	Value addition of Ragi and Bajra	1	20	-	20	-	-	-	20
Aug.	PF	creating awareness among farm women about Nutri Thali	1	20	-	20	-	-	-	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Feb	PF	INM in wheat	1	20	-	20	-	-	-	20
Jan	PF	Fertilizer management in late sown wheat	1	20	-	20	-	-	-	20
May	PF	Scientific method of soil sampling	1	20	-	20	-	-	-	20
June	PF	Use of biofertilizer in soybean	1	20	-	20	-	-	-	20
July	PF	Identification of nutrient deficiency symptoms in soybean	1	20	-	20	-	-	-	20
June	PF	Balance Use of fertilizer in Soybean	1	20	-	20	-	-	-	20
Oct	PF	Use of liquid bio-fertilizer in chickpea	1	20	-	20	-	-	-	20
Nov	PF	Use of STCR equation for balance use of fertilizeer	1	20	-	20	-	-	-	20
Oct	PF	Use of biofertilizer (NPK Consortia) in chickpea	1	20	-	20	-	-	-	20
Dec	PF	Identification of nutrient deficiency symptoms in Wheat	1	20	-	20	-	-	-	20
Ag. Engg.										
June	PF	Care and maintenance of farm machinery	1	20	-	20	-	-	-	**20**
July	PF	Care and maintenance of tractor	1	20	-	20	-	-	-	**20**
April	PF	Use of Reversible plough and power harrow for deep summer	1	20	-	20	-	-	-	**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	
		ploughing								
Feb	PF	Improved Harvesting machineries.	1	20	-	20	-	-	-	**20**
April	PF	Crop residue management through farm machinery	1	20	-	20	-	-	-	**20**
Aug.	PF	Advance agriculture equipment used for weeding operation	1	20	-	20	-	-	-	**20**
May	PF	Broad bed and furrow sowing method in soybean for moisture conservation	1	20	-	20	-	-	-	**20**
May	PF	Importance of raised bed sowing method in soybean	1	20	-	20	-	-	-	**20**
Oct	PF	Importance of raised bed sowing method in chickpea	1	20	-	20	-	-	-	**20**
Nov.	PF	Role of Micro irrigation system for maximizing water productivity and crop yield	1	20	-	20	-	-	-	**20**
June	PF	Advance technology used for nursery raising	1	20	-	20	-	-	-	**20**
Total	**59**		**59**	**1180**	**0**	**1180**	**0**	**0**	**0**	**1180**

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										
Mar	RY	Natural Farming	2	20	-	20	-	-	-	**20**
Horticulture										
Oct	RY	Nursery Rising	4	20	-	20	-	-	-	**20**
Feb	RY	Vegetable grower	45	20	-	20	-	-	-	**20**
Sept	RY	Flower cultivation	1	20	-	20	-	-	-	**20**
Livestock production										
July	RY	Advances in Dairy farming practices	6	20	-	20	-	-	-	**20**
Home Science										
April	RY	Nutritional benefits of oat fortified biscuits	1	-	20	20	-	-	-	**20**
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
April	RY	Soil Testing	6	20	-	20	-	-	-	**20**
Ag. Engg.										
Dec.	RY	installation and maintenance of micro irrigation system	1	20	-	20	-	-	-	**20**
Total	**8**		**66**	**140**	**20**	**160**				**160**

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										
Feb	IS	Crop Diversification	1	20		20				20
Apr	IS	Natural Farming	2	20		20				20
Horticulture										
Dec.	IS	Propagation techniques of Ornamental Plants	1	20		20				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	
Livestock production										
Sept	IS	Feeding of animals for maximizing of milk yield	1	20		20				20
Nov	IS	Urea molasses treatment of wheat straw	1	20		20				20
Home Science										
Oct.	IS	Nutritive garden: a way forwarded for challenging malnutrition for healthy children	1	-	20	20				20
May	IS	Health benefits of millets	1	-	20	20				20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
July	IS	INM in Soybean	1	20	-	20	-	-	-	**20**
Ag. Engg.										
Jan	IS	Role of protected cultivation knowledge for vegetable production	1	20	-	20	-	-	-	**20**
Total	**9**		10	140	40	180				**180**

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration n	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	8	120	40	160	8	0	8	128	40	168
Kisan Mela	2	200	100	300	20	15	35	220	115	335
Kisan Ghosthi	2	120	80	200	10	5	15	130	85	215
Exhibition	5	125	25	150	5	0	5	130	25	155
Film Show	18	180	180	360	18	0	18	198	180	378
Method Demonstrations	8	120	40	160	8	0	8	128	40	168
Farmers Seminar	0	0	0	0	0	0	0	0	0	0

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Workshop	0	0	0	0	0	0	0	0	0	0
Group meetings	4	100	20	120	2	0	2	102	20	122
Lectures delivered as resource persons	12	300	60	360	20	5	25	320	65	385
Newspaper coverage	6	0	0	0	0	0	0	0	0	0
Radio talks	6	0	0	0	0	0	0	0	0	0
TV talks	6	0	0	0	0	0	0	0	0	0
Popular articles	6	0	0	0	0	0	0	0	0	0
Extension Literature	6	0	0	0	0	0	0	0	0	0
Advisory Services	0	0	0	0	0	0	0	0	0	0
Scientific visit to farmers field	36	300	20	320	20	0	20	320	20	340
Farmers visit to KVK	36	720	180	900	36	4	40	756	184	940
Diagnostic visits	4	40	20	60	0	0	0	40	20	60
Exposure visits	0	0	0	0	0	0	0	0	0	0
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0
Soil health Camp	2	100	0	100	4	0	4	104	0	104
Animal Health Camp	4	60	20	80	4	0	4	64	20	84
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	12	0	300	300	0	0	0	0	300	300
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	4	60	40	100	4	0	4	64	40	104
Others (Webcast etc.)	4	100	20	120	4	2	6	104	22	126
Total	**191**	**2645**	**1145**	**3790**	**163**	**31**	**194**	**2808**	**1176**	**3984**

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
Cereals	Wheat	Poshan	40
Cereals	Wheat	Pusa Tejas	40
Cereals	Wheat	HI 8777	40
Cereals	Wheat	Purna	35
Cereals	Wheat	Pusa Ahilya	70
Cereals	Wheat	P. Vakula	35
Cereals	Wheat	P. Vani	35
Cereals	Wheat	P. Prabhat	35
Pulse	Chickpea	RVG-202	05
Pulse	Chickpea	Vikram Phule	05
Pulse	Chickpea	RVG-201	01

Pulse	Chickpea	RVG-204	05
Pulse	Chickpea	BG 3062	05
Oilseed	Soybean	NRC-138	50
Oilseed	Soybean	JS 2069	20
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			**5000 No.**
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			**5000 No.**
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	*Rhizobium*			
3				
BIOFERTILIZERS				
1	Vermicompost	*Eisenia fetida*	1 unit	12000
2	NADEP		2 unit	12000
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: 04 folders

KVK News Letter

Date of start	Periodicity	Number of copies to be published
2007	Quarterly	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: 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	Base line survey, PRA, Farmers meeting
2	Rural Youth	Group meeting
3	In-service personnel	Meeting
4	methodology for identifying OFTs/FLDs	Base line survey, PRA, Farmers meeting
5	Matrix ranking	Yes

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	Rampuriya	Mhow	38KM
2	Raikunda	Mhow	56KM
3	Awalipura	Mhow	44KM
4	Pipalda	Indore	21KM

1. No. of farm families selected per village: 20
2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:2005

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Flame photometer	1	working
2	Spectrophotometer	1	working
3	Mridaparikshak	2	1 working, 1 not working
4	pH meter	1	working
5	EC meter	1	working
6	Analytical balance	1	working
7	Oven	1	working
8	Shaker	2	working
9	Kjeldahl auto analyser	1	Not working
10	De-Ionizer Appartus	1	Not working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	300	300	15	540000
Water Samples	0	0	0	0
Total	300	300	15	540000

LINKAGES
Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Resource person sharing
Agriculture Department	Resource person sharing
Horticulture Department	Resource person sharing
Agriculture Engg. Department	Implement/ Resource person sharing
College of Agriculture	Resource person sharing
IARI Wheat Research Station	Resource person sharing
other KVK	Resource person sharing

Details of linkage with ATMA / NFSM
a**) Is ATMA implemented in your district** Yes/No

Name of Programme	Nature of linkage
Farm school	Resource person sharing
Farmers interface	Resource person sharing

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Guest lecture	Resource person sharing
Diagnostic Visit	Resource person sharing

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
N.A.	N.A.	N.A.

Planning for Crop Cafeteria
Total Area of Crop cafeteria: 645 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Wheat	Rabi	RVW 4106, HI 1418, HI 1605, Pusa 111, HI 1544, HI-1633, HI-1634, HI-1636, HI 1650, HI 1655, JW 3288, JW 3269, Sujata Pusa Anmol, Tejas, Poshan, HI-8777	aestivum – 13 durum – 04	255 sq.m
Chickpea	Rabi	JGK 3, RVGK 101, RVGK 102, MNK-1, RVG-151 JAKI 9218, JG 63, JG 130, JG 6, JG 16, Phule Vikram,	Kabuli – 05 Desi – 11	240 sq.m.

		RVG-201, RVG-202, RVG-203, RVG-204, BG-3062		
Soybean	Kharif	JS-2034, JS-2069, NRC-130, NRC-138, NRC-142, NRC-127, NRC-128, JS 9560, JS 2001-4, JS 1135	Oilseed	150 sq.m.

Details of Demonstration Unit at KVK

Demonstration Unit	**Particulars /details**	**Area (Sq m)**	**Output /Production**
Natural Farming Unit	Nimastra Brahmastra Agneyastra Beejamrut Jeevamrut	20 sq.m.	500 lit 500 lit 500 lit 200 lit 500 lit
Vermicompost	Vermicompost	75 sq.m.	120 q.
Azola Unit	Azola	5 sq.m.	100 kg.
Shed Net Unit for seedling/sapling	Insect net house Low tunnel polyhoue	100 sq.m. 100 sq.m.	5000 No.

ANNUAL ACTION PLAN 2024

KVK Raisen

Year of sanction: 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Swapnil Dubey	0755-4297891	9826499725	swapnildubey45@yahoo.com

1.2 Staff Position on (12th 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. Swapnil Dubey	Sr. Scientist & Head	Agronomy	37400-67000 G.P. 9000 (166100)	1st July, 2014	1st July, 2014	9826499725	swapnildubey45@yahoo.com	
2	Subject Matter Specialist	Mr. Ranjeet Singh Raghav	Scientist	Soil Science	15600-39100 G.P. 5400 (73200)	1st July, 2014	1st July, 2014	8103078603	raghavsinghranjeet@yahoo.co.in	
3	Subject Matter Specialist	Ms. Lakshmi Chakravarti	Scientist	Home Science	15600-39100 G.P. 5400 (73200)	1st July, 2014	1st July, 2014	9425372921	lakshmi.c124@gmail.com	
4	Subject Matter Specialist	Dr. Pradip Kumar Dwivedi	Scientist	Plant Protection	15600-39100 G.P. 5400 (71100)	1st April, 2015	1st April, 2015	7748084999	dwivedi_pradip@rediffmail.com	
5	Subject Matter Specialist	Dr. Mukul Kumar	Scientist	Horticulture	15600-39100 G.P. 5400 (69000)	3rd Feb, 2016	3rd Feb, 2016	9826169890	mukul0274@yahoo.co.in	
6	Subject Matter Specialist	Mr. Alok Kumar Suryawanshi	Scientist	Agriculture Extension	15600-39100 G.P. 5400 (61300)	5th Sep., 2019	5th Sep., 2019	9424947778	alokag88@gmail.com	

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
7	Subject Matter Specialist	Mr. Brahma Nand Shukla	Scientist	Fisheries	15600-39100 G.P. 5400 (61300)	12th Sep., 2019	12th Sep., 2019	9452302530	bns.nduat@gmail.com	
8	Programme Assistant	Dr. Anshuman Gupta	Programme Assistant	Veterinary Science	9300-34800 G.P. 4200 (70000)	25th March, 2004	25th March, 2004	9826047644	anshu753936@gmail.com	
9	Computer Programmer/ Programme Assistant	Mr Pankaj Bhargava	Programme Assistant	Computer Science	9300-34800 G.P. 4200 (70000)	8th April, 2004	8th April, 2004	9893009725	pankaj.kvk@gmail.com	
10	Farm Manager	Mr. Sunil Kethwas	Farm Manager	Farm Manager	9300-34800 G.P. 4200 (56900)	10th Oct, 2007	10th Oct, 2007	9893446148	sunil_kethwas@rediffmail.com	
11	Assistant	Mr. Rajkumar Makode	Assistant	Accounts	9300-34800 G.P. 4200 (52000)	1st July, 2011	1st July, 2011	9893710784	rajkumar.makode@gmail.com	
12	Jr. Stenographer / Comp. Operator	Mrs. Aruna Somkunwar	Stenographer	Stenographer	5200-20200 G.P. 2400 (47500)	22nd March, 2004	22nd March, 2004	9009069186	arus1975@gmail.com	
13	Driver	Mr. Ubed Khan	Driver	Jeep Driver	5200-20200 G.P. 2000 (37200)	5th Februar y, 2005	5th February, 2005	-	-	
14	Driver	Mr. Madhav Singh	Driver	Tractor Driver	5200-20200 G.P. 2000 (23100)	1st July, 2021	1st July, 2021	-	-	
15	Supporting staff	Mr. Sanjay Chaudhary	Supporting staff	Supporting Staff	5200-20200 G.P. 1800 (30600)	7th April, 2006	7th April, 2006	-	-	
16	Supporting staff	Mr. Piyush Sahu	Supporting staff	Supporting Staff	5200-20200 G.P. 1800 (19700)	1st July, 2020	1st July, 2020	-	-	

1.3 Total land with KVK (in ha): 18.50 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.12
2	Under Demonstration Units	0.32
3	Under Crops	14.17
4	Orchard/Agro-forestry	1.21
5	Others (specify)	1.68
Total		**18.50 ha**

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	543	-	-	-	-
2	Farmers Hostel	ICAR	2007	307	-	-	-	-
3	Staff Quarters (6)	ICAR	2007	400	-	-	-	-
4	Demonstration Units (2)	ICAR	2007	160	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	ICAR	2007	65	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	-	-	-	-
Bolero(Jeep)	2017	8,00,000	-	Working
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector			Working
Xerox Machine	2019	45000	Working
Laser Printer	2017	13400	Working
Laptop	2017	67000	Working
Inverter 600 VA (2)	2016	54200	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)

S. No.	Farming system/enterprise	Description
1	AES – 1	Agriculture + Horticulture (Paddy/Soybean/Wheat/Chickpea/Vegetables/Medicinal)+ Dairy
2	AES – 2	Agriculture + Horticulture (Paddy/Soybean/Wheat/Chickpea/Vegetables)+ Goatry
3	AES – 3	Agriculture + Horticulture (Paddy/Soybean/Wheat/Chickpea/Vegetables/Medicinal)+ Dairy + Goatry
4	AES- 4	Agriculture + Horticulture (Paddy/Soybean/Wheat/Chickpea/Tomato) + Goatry

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Shallow Black soil Moderate Rainfall- 1000 to 1300 mm, Low water holding capacity and low fertility
2	AES - 2	Red yellow and light textured soil with moderate rainfall - 800 to 1000 mm
3	AES – 3	Medium to Black Soil Rainfall - 1000 to 1300 mm, Nearly 50% area is rainfed
4	AES – 4	Irrigated situation area (all Situation) Normally 2-3 Irrigation are given in rabi crops

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Sanchi, Begamganj & Silwani)

Strength	Weakness	Opportunities	Threats
• Shallow Black Soil, pH is normal,High K Soil fertility good. • Major crop zone Paddy, Wheat & Chickpea. • Farmers are aware of latest agriculture practices.	• Low Available Nitrogen in soil • Limited irrigation facility • Infestation of pest and disease • low available Green fodder for animals • Unstable market prices for vegetables. • Low milk production due to indigenous breed of cow • Labor problem. • Un mechanized farming	• Natural farming opportunity • Water and Soil conservation possible resulting in increase crop production • Shift to climate resilient agriculture • Additional and assured source of income from Animals • Increased returns from Dairy • Improved use of IPM, INM • Marketing opportunity for Industries.	• Uneven climatic condition • Water table going down in Rabi/Zaid • High cost of crop production/Cultivation • New insect, pest attacking to crops • Low, Untimely rainfall-crop failure • Require good management practices • Capital Investment is high

AES-2 (Gairatganj)

Strength	Weakness	Opportunities	Threats
• Soil pH, EC is normal, High Available K • Soybean, Wheat, Chickpea, Paddy are major crops • Good soil for Horticultural crops • Use of High Yielding Varieties of vegetables • Improved Cultivation Practices	• Low water holding capacity • Low OC, Available Nitrogen in soil • Low annual Rainfall • Limited irrigation facility • Dry spell in Kharif session • Infestation of Pest and disease • low available Green fodder for animals • Unstable market prices for vegetables. • Low milk production due to indigenous breed of cow • Labor problem. • Un mechanized farming	• Natural farming • Horticultural crops are possible • If irrigated then yield will increase • Additional and assured source of income from Animals • Increased returns from Dairy • Improved use of IPM, INM • Marketing opportunity for Industries.	• Uneven climatic condition • Water table going down in Rabi/Zaid • High cost of crop production/Cultivation • New insect, pest attacking to crops • Low, Untimely rainfall-crop failure • Require good management practices • Capital Investment is high

AES-3 (Sanchi, Begamganj, Obedullaganj & Silwani)

Strength	Weakness	Opportunities	Threats
• High fertile soil, pH normal, High K • Major crop zone Soybean, Paddy, Wheat/Chickpea rotation	• Water logging problem in Rain • Low available Nitrogen , Phosphorus in soil • Limited irrigation facilities in rabi and zaid • low available Green fodder for animals • Unstable market prices for	• Potential in horticulture crops • Yield can be improved if irrigation facilities are improved • Area under Natural farming can be increased • Millets cultivation can	• Uneven climatic condition • Water table going down in Rabi/Zaid • High cost of crop production/Cultivation • New insect, pest attacking to crops • Low, Untimely rainfall-crop

	vegetables. • Low milk production due to indigenous breed of cow • Labor problem. • Un mechanized farming	promoted • Integrated farming • Additional and assured source of income from Animals • Increased returns from Dairy • Improved use of IPM, INM • Marketing opportunity for Industries.	failure • Require good management practices • Capital Investment is high

AES-4 (Sanchi, Obedullaganj, Badi & Udaipura)

Strength	Weakness	Opportunities	Threats
• High fertile soil, pH normal, High K • Irrigation facilities available in maximum area • Crop cultivation throughout year in large area • Scented rice/paddy cultivation condition suitable in the area	• Water logging problem in Kharif • High uptake of Nutrient from soil by mono cropping pattern • High consumption of fertilizers • High use of insecticide & pesticides • low available Green fodder for animals • Unstable market prices for vegetables. • Low milk production due to indigenous breed of cow • Labor problem. • Un mechanized farming	• More area under scented rice can be increased in sustainable mode • Decrease in pesticide use to decrease residual effects for export quality of Rice • Potential in Horticulture crops. • Possibility of natural and Organic farming • Fish farming • Additional and assured source of income from Animals • Increased returns from Dairy • Improved use of IPM, INM • Marketing opportunity for Industries.	• Uneven climatic condition • Water table going down in Rabi/Zaid • High cost of crop • production/Cultivation • New insect, pest attacking to crops • Ground water polluted due to excess use of pesticides • Decrease in Soil health condition • Low, Untimely rainfall-crop failure • Require good management practices • Capital Investment is high

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	631.748
Forest	116.674
Waste Land	41.069
Other than cultivated area	-
Cultivable waste and alkaline land	3.560
Pastures	26.366
Bushes	0.109
Current Fallow	-
Other Fallow	-
Agricultural Land	430.004
Area Sown	790.263
Kharif	355.966
Rabi	434.297
Zaid	-
Cropping Intensity	183.78

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	166121
2	Well	43500
3	Tube well	318066
4	Ponds	8352
5	Others	73435

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Shallow / Black soil	pH normal, OC -medium, low A. nitrogen, low-Medium P, medium to high K	184.773
2	Red yellow and light textured soil	Low water holding capacity pH normal, OC low A. nitrogen low, low /Medium P, medium to high K	9.847
3	Sandy looms	Low water holding capacity pH normal, OC low A. nitrogen low, low /Medium P, medium to high K	127.323
4	Sandy Soil	Low water holding capacity pH normal, OC low A. nitrogen low, low /Medium P, medium to high K	27.552
5	Others	pH normal, OC -medium, low A. nitrogen, low-Medium P, medium to high K	81.547

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	2,50,000	10500000	42.00
2	Soybean	40,000	412000	10.30
3	Pigeonpea	45,000	810000	18.00
4	Blackgram	34,000	210800	6.20
5	Wheat	2,85,000	11400000	40.00
6	Chickpea	1,25,000	2125000	17.00
7	Lentil	20,000	220000	11.00

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

Month /Year	Rainfall (m.m.)	Temperature (^{0} C)	
		Maximum	Minimum
Jan, 23	3.15	24.5	2.5
Feb, 23	2.25	28.79	3.65
Mar, 23	0.6	40.93	7.97
Apr, 23	0.4	42.91	16.94
May, 23	6.2	44.32	20.94
Jun, 23	51.8	43.3	22.01
July, 2023	672.6	34.05	21.6
Aug., 2023	36.8	33.6	21.95
Sept., 2023	356.4	33.57	20.95
Oct. 2023	222.2	33.29	11.47
Nov. 2023	1.6	33.41	7.04
Dec. 2023	20.3	28.47	6.97

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous ('000)	618	117 MT.	…… kg
Buffalo *('000)*	137	49 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	13284.08(ha)	3542.08 Q/ month	3.20 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		Gairatganj	Baniyakhedi	Rice, Wheat, Chickpea	Low yield of crops, Excessive use of fertilizers, No use of IPM	Crop diversification, Improved variety, Integrated Crop Management practices, IPM, INM.
2		Gairatganj	Sandook	Rice, Wheat, Chickpea	Low yield of crops, Excessive use of fertilizers, No use of IPM	Crop diversification, Improved variety, Integrated Crop Management practices, IPM, INM.

Priority / Thrust areas

S. No.	Particulars
1	Crop diversification
2	Improved variety
3	Integrated Crop Management practices
4	Integrated Pest Management
5	Integrated Disease Management
6	Integrated Nutrient Management
7	Integrated Weed Management
8	Natural Farming

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	180	55.40	218

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	1800	234	3805

Seed Production (Qtl.)	Planting material (Nos.)
395	32400

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 Assessment	Soybean	Low yield of Soybean due to heavy attack of insect-pest and diseases.	Assessment of improved variety of Soybean NRC-138 under Soybean – Wheat cropping system.	-	-	-	-	Seed
2	Varietal Assessment	Rice	Low yield of Rice due to use of old variety.	Assessment of improved variety of Rice Pusa-1692 under Rice –Wheat cropping system.	-	-	-	-	Seed
3	Varietal Assessment	Wheat	Low yield of Wheat due to use of old variety	Assessment of wheat variety HI -1633 for late sown condition under Rice-Wheat cropping system.	-	-	-	-	Seed
4	Varietal Assessment	Lentil	Low yield of Lentil due to use of old variety	Assessment of Lentil variety RVL-30 under Rice-Lentil cropping system.	-	-	-	-	Seed
5	Nutrient Management	Rice	Low availability of phosphorus due to fixation in soil.	Assessment of integration of PSB in Rice in Rice-Wheat cropping system.	-	-	-	-	PSB
6	Nutrient Management	Rice	Low yield due to imbalance use of fertilizers.	Assessment of VAM in Rice crop.	-	-	-	-	VAM
7	Nutrient Management	Wheat	Low yield due to imbalance use of fertilizers.	Assessment of VAM in Wheat crop.	-	-	-	-	VAM
8	Nutrient Management	Chickpea	Low yield of chickpea due to imbalance use of Fertilizer.	Assessment of NANO DAP in Chickpea crop	-	-	-	-	NANO DAP
9	IPM	Maize	Low yield due to heavy infestation of fall army worm.	Assessment of IPM module for the management of fall army worm in Maize crop.	-	-	-	-	Pesticide
10	IPM	Soybean	Low yield of Soybean due to incidence of stem fly.	Assessment of IPM module for the management of Stem fly in Soybean crop	-	-	-	-	Pesticide
11	IPM	Rice	Low yield of Rice due to incidence of Brown Plant Hopper	Assessment of pesticide for the management of Brown Plant Hopper in Rice.	-	-	-	-	Pesticide
12	IDM	Tomato	Low yield of tomato due to heavy infection of Early Blight disease.	Assessment of fungicide for the management of Early Blight in tomato.	-	-	-	-	Fungicide
13	Varietal Assessment	Chilli	Low yield of chilli due to leaf curl	Assessment for CHLCV resistant Hybrid Arka	-	-	-	-	Seedling

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.
			virus	Tejasvi (H-41) of Chilli.					
14	Varietal Assessment	Ashwagandha	Low yield of Ashwagandha due to use of old variety	Assessment of high yielding variety (Sim pushti) of Ashwagandha.	-	-	-	-	Seed
15	Varietal Assessment	Onion	Low yield of Onion due to use of old variety	Assessment for Improved Variety of Onion (Bhima Red).	-	-	-	-	Seed
16	HOV_VE	Cauliflower	Low income due to non-availability for early variety of Cauliflower.	Assessment for early variety of Arka Vimal Cauliflower.	-	-	-	-	Seed
17	Production and Management	Fish	Depletion in oxygen, increase in ammonia	Assessment to use of Zeolite in fish pond to increase production by reduce faecal load in fish pond	-	-	-	-	Zeolite
18	Production and Management	Lime	Low production due to low pH.	Assessment to use lime in fish culture pond.	-	-	-	-	Lime
19	Production and Management	Fish	Poor growth and low fish production	Assessment of Growth performance of multivitamin and mineral in Pangasius fish.	-	-	-	-	Fry
20	Production and Management	Fish	Poor fish growth and Low fish production.	Assessment of Growth Promoter on IMC and EC.	-	-	-	-	Fry
21	AS	Dairy animals	Poor digestibility due to deficiency of enzymes	Assessment of multi enzymes in daily diets of cow to improve digestibility	-	-	-	-	Multi enzymes powder
22	AS	Dairy Animals	Low milk production due to calcium deficiency	Assessment of chelated calcium in dairy animals.	-	-	-	-	Chelated calcium
23	Water conservation technology	-	Lack of knowledge and benefits of drip irrigation in intensive vegetable production.	Assessment of awareness and adoption of Drip irrigation method in vegetable crop for income generation.	-	-	-	-	-
24	CBD	-	Poor knowledge about SHC recommendation	Assessment of knowledge & adoption of soil health card based fertilizer application.	-	-	-	-	-
25	WOE	Biofortified Paddy	Low nutrition intake through regular consumed Rice in daily diet, Farm women Suffers Zinc & Protein Deficiency	Assessment of Biofortified Paddy Variety DRR 48 and DRR 49 for Nutritional Security of farm women.	-	-	-	-	Seed
26	WOE	Kodo Millet	Need of Crop Diversification	Assessment of High Yielding Variety of Kodo	-	-	-	-	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.
				Millet JK-137					
27	WOE	Biofortified Wheat	Low Nutritional status of farm women due to daily Consumption of less protein , Iron and zinc Rich Wheat.	Assessment of Biofortified Wheat variety DBW 187 Karan Vandana (DURUM) Variety for Nutritional Security of farm women.	-	-	-	-	Seed
28	WOE	Biofortified Lentil	Low Nutritional status & Non availability of iron through pulses Consumption in daily diet	Assessment of Biofortified Lentil Variety Pusa Ageti masoor (Pure line variety) for Nutritional Security of farm women.	-	-	-	-	Seed
29	Varietal evaluation	Rice	Low yield of Rice due to use of old variety	-	Demonstration of improved variey Pusa-1637 in soybean	-	-	-	Seed
30	Weed Management	Soybean	Low yield of Soybean due to heavy infestation of weed	-	Demonstration on Quizalophop 7.5% + Imazethapyre 15% EC @ 175 ml/acre in Soybean.	-	-	-	Weedicide
31	Varietal evaluation	Wheat	Low yield of wheat due to use of old variety	-	Demonstration on wheat variety Pusa Tejas (HI-8759).	-	-	-	Seed
32	Varietal evaluation	Lentil	Low yield of Lentil due to use of old variety	-	Demonstration on Lentil variety RVL-31.	-	-	-	Seed
33	INM	Rice	Low yield of rice due to imbalance use of fertilizer	-	Demonstration on Nano Urea in rice	-	-	-	Nano Urea
34	INM	Soybean	Low yield of soybean due to imbalance use of fertilizer	-	Demonstration on Rhizobium + PSB @ 10 ml/kg seed + KSB @2.5 liter/ha in soybean	-	-	-	Rhizobium, PSB, KSB
35	INM	Wheat	Low yield of wheat due to imbalance use of fertilizer	-	Demonstration on Nano Urea in wheat	-	-	-	Nano Urea
36	INM	Tomato	Low yield of tomato due to imbalance use of fertilizer	-	Demonstration of 0.5% Boron in tomato	-	-	-	Boron
37	INM	Chickpea	Low yield of chickpea due to imbalance use of fertilizer	-	Demonstration on Rhizobium + PSB @ 10 ml/kg seed + KSB @2.5 liter/ha in chickpea	-	-	-	Rhizobium, PSB, KSB
38	HOS	Onion	Low yield of onion due to use of old variety	-	Demonstration on Bhima Super variety in onion	-	-	-	Bhima Super 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.
39	HOV	Broccoli	Low yield of Garlic due to use of old variety	-	Demonstration on Garlic variety G-282	-	-	-	Seed
40	HOV	Tomato	Low yield of tomato due to use of old variety	-	Demonstration on High yielding tomato hybrid Arka Samrat	-	-	-	Seed
41	IPM	Soybean	Low yield of soybean due to heavy infestation of insect-pests	-	Demonstration of IPM module in soybean crop	-	-	-	Bird percher, pheromone trap, Chlorentraniliprole 18.5 SC
42	IDM	Rice	Low yield of rice due to heavy incidence of diseases	-	Demonstration of Carbendazim @ 2 g/kg + Foliar spray of copper oxy chloride @ 3 g/l in rice	-	-	-	Carbendazim, Copper oxy chloride
43	IDM	Rice	Low yield of rice due to heavy incidence of diseases	-	Demonstration of Trichoderma viride @ 5 g/kg + Foliar spray of Propiconazole 25 EC @ 500 ml/ha in rice	-	-	-	Trichoderma viride, Propiconazole
44	IPM	Chickpea	Low yield of chickpea due to heavy infestation of insect-pests	-	Demonstration of IPM module in chickpea crop	-	-	-	Bird percher, Pheromone trap, NPV, Chlorentraniliprole.
45	Nutritional Security (WOE)	Paddy	Low yield of rice due to use of old variety	-	Demonstration on Biofortified Rice Variety CR Dhan 310	-	-	-	Seed
46	Income Generation WOE 2024	Pigeon pea	Heavy losses of grain in use of traditional method of storage	-	Demonstration on Grain Pro super beg	-	-	-	Grain Pro super beg
47	Income Generation WOE	Poultry	Low income of farm women	-	Demonstration of backyard poultry farming in rural areas for income generation.	-	-	-	20 chicks per unit
48	Nutritional Security	Oyster Mushroom	Low yield of oyster mushroom due to local substrate	-	Demonstration on Proper subtract (Paddy & Wheat straw) of Oyster Mushroom	-	-	-	Seed, Straw & Holding 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 Production	2	1	1	0	0	0	0	0	0	**4**
Plant Protection	2	1	0	0	1	0	0	0	0	**4**
Horticulture	0	0	0	1	3	0	0	0	0	**4**
Soil Science	3	0	1	0	0	0	0	0	0	**4**
Home Science	2	0	1	1	0	0	0	0	0	**4**
TOTAL	9	2	3	2	4	0	0	0	0	**20**

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

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitary**	**Fisheries**	**TOTAL**
Livestock	1	0	0	1	0	0	0	**2**
Fisheries	0	0	0	0	0	0	4	**4**
TOTAL	1	0	0	1	0	0	4	**6**

Details of On Farm Trial (OFT)

OFT-1 (Agronomy)

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of improved variety of Soybean NRC-138 under Soybean –Wheat cropping system.	
Problem diagnosed	Low yield of Soybean due to heavy attack of insect-pest and diseases.	
Farmers' Practices	JS-93-05	
Details of technologies selectedfor assessment	T_1	JS-93-05
	T_2	NRC-138, Maturity- 90 days, Yield: 18-20 q/ha, resistant to YMV.
Source of technology	IISR, Indore (2021).	
Plot size	0.4 ha	
No. of farmers	8	
Total cost	Rs. 35000	
Critical input	NRC-138	
Performance indicators: (i) Technical- **yield (q/ ha)** (ii) Economic (iii) Social – **Employment generation**	Pods/plant, Yield quintal/ha, BC Ratio, Farmers Reaction, Feed back	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of improved variety of Soybean NRC-138 under Soybean – Wheat cropping system.
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean due to heavy attack of insect-pest and diseases.
Thematic area:	Varietal evaluation
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JS-93-05
T2 –Recommended Practice-	NRC-138, Maturity- 90 days, Yield: 18-20 q/ha, resistant to YMV.
T3- Recommended Practice-	-

Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	IISR, Indore (2021).
Characteristics of technology:	NRC-138, Maturity- 90 days, Yield: 18-20 q/ha, resistant to YMV.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2 (Agronomy)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of improved variety of Rice Pusa-1692 under Rice –Wheat cropping system.	
Problem diagnosed	Low yield of Rice due to use of old variety.	
Farmers' Practices	Pusa-1509	
Details of technologies selectedfor assessment	T_1	Pusa-1509
	T_2	Pusa-1692, Maturity- 110-115 days, Yield: 50-55 q/ha.
Source of technology	IARI, New Delhi (2020).	
Plot size	0.4 ha	
No. of farmers	8	
Total cost	Rs. 12000	
Critical input	Pusa-1692	
Performance indicators: (i) Technical- **yield (q/ ha)**. (ii) Economic (iii) Social – **Employment generation**	Pods/plant, Yield quintal/ha, BC Ratio, Farmers Reaction, Feed back	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of improved variety of Rice Pusa-1692 under Rice –Wheat cropping system.
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to use of old variety.
Thematic area:	Varietal evaluation
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Pusa-1509
T2 –Recommended Practice-	Pusa-1692, Maturity- 110-115 days, Yield: 50-55 q/ha.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	IARI, New Delhi (2020).
Characteristics of technology:	Pusa-1692, Maturity- 110-115 days, Yield: 50-55 q/ha.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3 (Agronomy)

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of wheat variety HI -1633 for late sown condition under Rice-Wheat cropping system.	
Problem diagnosed	Low yield of Wheat due to use of old variety	
Farmers' Practices	HI-1544	
Details of technologies selectedfor assessment	T_1	HI-1544
	T_2	HI-1633 , Maturity- 100-105 days, Yield: 40-45 q/ha.
Source of technology	IARI, Indore (2020)	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 12000	
Critical input	HI-1633	
Performance indicators: (i) Technical- **yield (q/ ha)** (ii) Economic (iii) Social – **Employment generation**	No. of Effective Tillers (per m2), yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of wheat variety HI-1633 for late sown condition under Rice-Wheat cropping system.
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Wheat due to use of old variety.
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-	HI-1544
T2 –Recommended Practice-	HI-1633 , Maturity- 100-105 days, Yield: 40-45 q/ha.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Source of technology:	IARI,INDORE (2020)
Characteristics of technology:	HI-1633 , Maturity- 100-105 days, Yield: 40-45 q/ha.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4 (Agronomy)

Crop / Enterprise	Lentil	
Title of on farm trial	Assessment of Lentil variety RVL-30 under Rice-Lentil cropping system.	
Problem diagnosed	Low yield of Lentil due to use of old variety	
Farmers' Practices	Mallika	
Details of technologies selectedfor assessment	T_1	Mallika
	T_2	RVL-30, Maturity- 105-110days, Yield: 14-15 q/ha.
Source of technology	RVSKVV, Gwalior (2020).	
Plot size	0.4 ha	

No. of farmers	10
Total cost	Rs. 10000
Critical input	RVL-30
Performance indicators: (i) Technical- **yield (q/ ha)** (ii) Economic (iii) Social – **Employment generation**	No. of pods/plant (per m2), yield q/ha , Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Lentil variety RVL-30 under Rice-Lentil cropping system.
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Lentil due to use of old variety
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-	Mallika
T2 –Recommended Practice-	RVL-30, Maturity- 105-110days, Yield: 14-15 q/ha.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Source of technology:	RVSKVV, Gwalior (2020).
Characteristics of technology:	RVL-30, Maturity- 105-110days, Yield: 14-15 q/ha.
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5 (Soil Science)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of integration of PSB in Rice in Rice-Wheat cropping system.	
Problem diagnosed	Low availability of phosphorus due to fixation in soil.	
Farmers' Practices	No use of Biofertilizer.	
Details of technologies selectedfor assessment	T_1	No use of Biofertilizer.
	T_2	Soil application 1.5 liter /Ac +PSB @ 10 ml/liter seedling treatment.
Source of technology	JNKVV, Jabalpur 2016	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 6500	
Critical input	PSB	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tillers/plant, yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of integration of PSB in Rice in Rice-Wheat cropping system.
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low availability of phosphorus due to fixation in soil.
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 use of Biofertilizer.
T2 –Recommended Practice-	Soil application 1.5 liter /Ac +PSB @ 10 ml/liter seedling treatment.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	JNKVV, Jabalpur 2016
Characteristics of technology:	Soil & Seedling treatment through PSB Biofertilizer
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6 (Soil Science)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of VAM in Rice crop.	
Problem diagnosed	Low yield due to imbalance use of fertilizers.	
Farmers' Practices	No use of Biofertilizer.	
Details of technologies selectedfor assessment	T_1	No use of Biofertilizer.
	T_2	VAM @ 10 kg/ha at sowing time.
Source of technology	JNKVV, Jabalpur 2016	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 9000	
Critical input	VAM	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tillers/plant, yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of VAM in Rice crop.
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield 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 use of Biofertilizer.
T2 –Recommended Practice-	VAM @ 10 kg/ha at sowing time.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	JNKVV, Jabalpur 2016
Characteristics of technology:	VAM @ 10 kg/ha at sowing time.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7 (Soil Science)

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of VAM in Wheat crop.	
Problem diagnosed	Low yield due to imbalance use of fertilizers.	
Farmers' Practices	No use of Biofertilizer.	
Details of technologies selectedfor assessment	T_1	No use of Biofertilizer.
	T_2	VAM @ 10 kg/ha at sowing time.
Source of technology	JNKVV, Jabalpur 2016	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 9000	
Critical input	VAM	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tillers/plant, yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of VAM in Wheat crop.
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield 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 use of Biofertilizer.
T2 –Recommended Practice-	VAM @ 10 kg/ha at sowing time.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Source of technology:	JNKVV, Jabalpur 2016
Characteristics of technology:	VAM @ 10 kg/ha at sowing time.

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

OFT-8 (Soil Science)

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of NANO DAP in Chickpea crop	
Problem diagnosed	Low yield of chickpea due to imbalance use of Fertilizer.	
Farmers' Practices	Use of 125 kg DAP only.	
Details of technologies selectedfor assessment	T_1	Use of 125 kg DAP only.
	T_2	100% NPK(20:60:20)
	T_3	100% N through Urea+ 50%P through DAP+ Seed treatment with NANO DAP @5 ml/kg seed +Spray with NANO DAP @2 ml/ lt of water at 30 DAS.
Source of technology	IFFCO 2019	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 9000	
Critical input	NANO DAP	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Pods/plant, yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of NANO DAP in Chickpea crop.
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chickpea due to imbalance use of Fertiliser.
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-	Use of 125 kg DAP only
T2 –Recommended Practice-	100% NPK(20:60:20)
T3- Recommended Practice-	100% N through Urea+ 50%P through DAP+ Seed treatment with NANO DAP @5 ml/kg seed +Spray with NANO DAP @2 ml/ lt of water at 30 DAS.
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Source of technology:	IFFCO 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9 (Plant Protection)

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of IPM module for the management of fall army worm in Maize crop.	
Problem diagnosed	Low yield due to heavy infestation of fall army worm.	
Farmers' Practices	Indiscriminate use of insecticides.	
Details of technologies selectedfor assessment	T_1	Indiscriminate use of insecticides.
	T_2	Spray of Azadirachtin 1500 ppm @ 5 ml/l at early instar stage + Thiamethoxam 12.6 + Lambdacyhalothrin 9.5 ZC @ 0.5 ml/l during mid to late instar stage + Pheromone trap @ 15/ha.
Source of technology	IARI, New Delhi (2019)	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs. 5000	
Critical input	Azadirachtin, Thiamethoxam + Lambdacyhalothrin, Pheromone trap.	
Performance indicators: (i) Technical- **yield (q/ ha)** (ii) Economic (iii) Social – **Employment generation**	No. of larvae per row length, Insect infestation (%), Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for the management of fall army worm in Maize crop.
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy infestation of fall army worm.
Thematic area:	IPM
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-	Indiscriminate use of insecticides.
T2 –Recommended Practice-	Spray of Azadirachtin 1500 ppm @ 5 ml/l at early instar stage + Thiamethoxam 12.6 + Lambdacyhalothrin 9.5 ZC @ 0.5 ml/l during mid to late instar stage + Pheromone trap @ 15/ha.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	IARI, New Delhi (2019)
Characteristics of technology:	Spray of Azadirachtin 1500 ppm @ 5 ml/l at early instar stage + Thiamethoxam 12.6 + Lambdacyhalothrin 9.5 ZC @ 0.5 ml/l during mid to late instar stage + Pheromone trap @ 15/ha.
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10 (Plant Protection)

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of IPM module for the management of Stem fly in Soybean crop	
Problem diagnosed	Low yield of Soybean due to incidence of stem fly.	
Farmers' Practices	Spray of Profenfophos 50 EC @ 1.25 liter/ha.	
Details of technologies selected for assessment	T_1	Spray of Profenfophos 50 EC @ 1.25 liter/ha.
	T_2	Seed treatment with Thiamethoxam 30 FS @ 10 ml/kg of seed, Spray of Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC @ 125 ml/ha.
Source of technology	IISR, Indore (2021)	
Plot size	0.4 ha	
No. of farmers	8	
Total cost	Rs. 6000	
Critical input	Thiamethoxam, Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC.	
Performance indicators: (i) Technical- **yield (q/ ha)** (ii) Economic (iii) Social – **Employment generation**	No. of Infected plant/m2, Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for the management of Stem fly in Soybean crop
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean due to incidence of stem fly.
Thematic area:	IPM
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Profenfophos 50 EC @ 1.25 liter/ha.
T2 –Recommended Practice-	Seed treatment with Thiamethoxam 30 FS @ 10 ml/kg of seed, Spray of Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC @ 125 ml/ha.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	IISR, Indore (2021)
Characteristics of technology:	Seed treatment with Thiamethoxam 30 FS @ 10 ml/kg of seed, Spray of Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC @ 125 ml/ha.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11 (Plant Protection)

Crop / Enterprise	Rice
Title of on farm trial	Assessment of pesticide for the management of Brown Plant Hopper in Rice.
Problem diagnosed	Low yield of Rice due to incidence of Brown Plant Hopper
Farmers' Practices	Spray of Chlorpyriphos 20 EC @ 1.5 lt/ha.

Details of technologies selectedfor assessment	T_1	Spray of Chlorpyriphos 20 EC @ 1.5 lt/ha.
	T_2	Spray of Imidachloprid 17.8 SL @ 250 ml/ha.
	T_3	Spray of *Verticillium lecanii* @ 1 liter/ha.
Source of technology	JNKVV, Jabalpur (2020)	
Plot size	0.4 ha	
No. of farmers	8	
Total cost	Rs. 7000	
Critical input	Imidachloprid, *Verticillium lecanii*	
Performance indicators: (iv) Technical- **yield (q/ ha)** (v) Economic (vi) Social – **Employment generation**	No. of Insect per hill, Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of pesticide for the management of Brown Plant Hopper in Rice.
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to incidence of Brown Plant Hopper
Thematic area:	IPM
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Chlorpyriphos 20 EC @ 1.5 lt/ha.
T2 –Recommended Practice-	Spray of Imidachloprid 17.8 SL @ 250 ml/ha.
T3- Recommended Practice-	Spray of *Verticillium lecanii* @ 1 liter/ha.
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	JNKVV, Jabalpur (2020)
Characteristics of technology:	T_2- Spray of Imidachloprid 17.8 SL @ 250 ml/ha. T_3- Spray of *Verticillium lecanii* @ 1 liter/ha.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12 (Plant Protection)

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of fungicide for the management of Early Blight in tomato.	
Problem diagnosed	Low yield of tomato due to heavy infection of Early Blight disease.	
Farmers' Practices	No judicious use of fungicide.	
Details of technologies selectedfor assessment	T_1	No judicious use of fungicide.
	T_2	Spray of Azoxystrobin 18.2% + Difenoconazole 11.4 SC @ 500 ml/ha at 45 DAT.
Source of technology	JNKVV, Jabalpur (2020)	
Plot size	0.4 ha	
No. of farmers	8	
Total cost	Rs. 7000	
Critical input	Hexaconazole, Azoxystrobin + Difenoconazole.	

Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	Disease Incidence (%), Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of fungicide for the management of Early Blight in tomato.
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of tomato due to heavy infection of Early Blight disease.
Thematic area:	IDM
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No judicious use of fungicide.
T2 –Recommended Practice-	Spray of Azoxystrobin 18.2% + Difenoconazole 11.4 SC @ 500 ml/ha at 45 DAT.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Source of technology:	JNKVV, Jabalpur (2020)
Characteristics of technology:	Spray of Azoxystrobin 18.2% + Difenoconazole 11.4 SC @ 500 ml/ha at 45 DAT.
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13 (Horticulture)

Crop / Enterprise	Chilli	
Title of on farm trial	Assessment for CHLCV resistant Hybrid Arka Tejasvi (H-41) of Chilli.	
Problem diagnosed	Low yield of chilli due to leaf curl virus	
Farmers' Practices	Local variety	
Details of technologies selectedfor assessment	T_1	Local variety
	T_2	Arka Tejasvi, Highly pungent, CHLCV & Powdery mildew resistant, Yield: 150-200 q/ha (Green)
Source of technology	IIHR, Bangalore (2019).	
Plot size	0.05 ha	
No. of farmers	5	
Total cost	Rs. 9000	
Critical input	Arka Tejasvi Seed.	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	Fruit weight (g), fruit length, Yield/plant, Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment for CHLCV resistant Hybrid Arka Tejasvi (H-41) of Chilli.
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chilli due to leaf curl virus
Thematic area:	HOV-VE
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-	Local variety
T2 –Recommended Practice-	Arka Tejasvi, Highly pungent, CHLCV & Powdery mildew resistant, Yield: 150-200 q/ha (Green)
T3- Recommended Practice-	
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	IIHR, Bangalore (2019).
Characteristics of technology:	Arka Tejasvi, Highly pungent, CHLCV & Powdery mildew resistant, Yield: 150-200 q/ha (Green).
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-14 (Horticulture)

Crop / Enterprise	Ashwagandha	
Title of on farm trial	Assessment of high yielding variety (Sim pushti) of Ashwagandha.	
Problem diagnosed	Low yield of Ashwagandha due to use of old variety	
Farmers' Practices	Local variety	
Details of technologies selectedfor assessment	T_1	Local variety
	T_2	Sim pushti, Yield: 12-15 q/ha, root length: 30-40 cm.
Source of technology	CIMAP, Lucknow (2018)	
Plot size	0.05 ha	
No. of farmers	5	
Total cost	Rs. 7000	
Critical input	Seed.	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	Root length, width, Yield/plant, Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding variety (Sim pushti) of Ashwagandha.
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Ashwagandha due to use of old variety

Thematic area:	HOV-VE
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-	Local variety
T2 –Recommended Practice-	Sim pushti, Yield: 12-15 q/ha, root length: 30-40 cm.
T3- Recommended Practice-	
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Source of technology:	CIMAP, Lucknow (2018)
Characteristics of technology:	Sim pushti, Yield: 12-15 q/ha, root length: 30-40 cm.
Name of Crop/Enterprises:	Ashwagandha
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-15 (Horticulture)

Crop / Enterprise	Onion	
Title of on farm trial	Assessment for Improved Variety of Onion (Bhima Red).	
Problem diagnosed	Low yield of Onion due to use of old variety	
Farmers' Practices	Local variety	
Details of technologies selectedfor assessment	T_1	Local variety
	T_2	Bhima Red, Yield: 30-32 t/ha, Duration: 110-120 days.
Source of technology	DOGR, Pune.	
Plot size	0.10 ha	
No. of farmers	5	
Total cost	Rs. 6000	
Critical input	Seed.	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	Bulb size (cm), Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment for Improved Variety of Onion (Bhima Red).
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Onion due to use of old variety
Thematic area:	HOS-VE
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-	Local variety
T2 –Recommended Practice-	Bhima Red, Yield: 30-32 t/ha, Duration: 110-120 days.
T3- Recommended Practice-	

Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Source of technology:	DOGR, Pune.
Characteristics of technology:	Bhima Red, Yield: 30-32 t/ha, Duration: 110-120 days.
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-16 (Horticulture)

Crop / Enterprise	Cauliflower	
Title of on farm trial	Assessment for early variety of Arka Vimal Cauliflower.	
Problem diagnosed	Low income due to non-availability for early variety of Cauliflower.	
Farmers' Practices	Local variety	
Details of technologies selectedfor assessment	T_1	Local variety
	T_2	Arka Vimal , Yield: 17-18 t/ha, Duration: 75-80 days.
Source of technology	IIHR, Bangalore (2018).	
Plot size	0.05 ha	
No. of farmers	5	
Total cost	Rs. 8000	
Critical input	Seed.	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	Curd size (cm.), Curd weight (gm), Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment for early variety of Arka Vimal Cauliflower.
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low income due to non-availability for early variety of Cauliflower.
Thematic area:	HOV-VE
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-	Local variety
T2 –Recommended Practice-	Arka Vimal, Yield: 17-18 t/ha, Duration: 75-80 days.
T3- Recommended Practice-	
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Source of technology:	IIHR, Bangalore (2018).
Characteristics of technology:	Arka Vimal, Yield: 17-18 t/ha, Duration: 75-80 days.
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-17 (Fisheries)

Crop / Enterprise	**Fish**	
Title of on farm trial	Assessment to use of Zeolite in fish pond to increase production by reduce faecal load in fish pond	
Problem diagnosed	Depletion in oxygen, increase in ammonia	
Farmers' Practices	No use zeolite	
Details of technologies selectedfor assessment	T_1	No use zeolite
	T_2	Zeolite use 2 kg/ ha/month
Source of technology	CIFA	
Plot size	-	
No. of farmers	2	
Total cost	Rs. 4000	
Critical input	Zeolite	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	B:C Ratio, Farmers Reaction, Feed back	

Detailed Information about OFT:

Name of Discipline	**Fisheries**
Title of on-farm trial:	Assessment to use of Zeolite in fish pond to increase production by reduce faecal load in fish pond.
Year/Season:	2024/Kharif/Rabi
Farming situation:	-
Problem diagnosis:	Depletion in oxygen, increase in ammonia
Thematic area:	Production and Management
No of trials:	2
No. of farmers involved	2
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use zeolite
T2 –Recommended Practice-	Zeolite use 2 kg/ ha/month
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFA
Characteristics of technology:	Depletion in oxygen, increase in ammonia, increase growth rate and Production
Name of Crop/Enterprises:	Zeolite
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-18 (Fisheries)

Crop / Enterprise	Lime	
Title of on farm trial	Assessment to use lime in fish culture pond.	
Problem diagnosed	Low production due to low pH.	
Farmers' Practices	No use of Lime	
Details of technologies selectedfor assessment	T_1	No use of Lime
	T_2	Lime use.
Source of technology	CIFA	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs. 9000	
Critical input	Lime	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	BC Ratio, Farmers Reaction, Feed back	

Detailed Information about OFT:

Name of Discipline	**Fisheries**
Title of on-farm trial:	Assessment to use lime in fish culture pond.
Year/Season:	2024/Kharif/Rabi
Farming situation:	-
Problem diagnosis:	Low production due to low pH.
Thematic area:	Production and Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Lime
T2 –Recommended Practice-	Lime use.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFA
Characteristics of technology:	Lime use.
Name of Crop/Enterprises:	Lime
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-19 (Fisheries)

Crop / Enterprise	Fish	
Title of on farm trial	Assessment of Growth performance of multivitamin and mineral in Pangasius fish.	
Problem diagnosed	Poor growth and low fish production	
Farmers' Practices	No use	
Details of technologies selectedfor assessment	T_1	No use
	T_2	Multivitamin with minerals @ 2% of feed
Source of technology	ICAR-CIFE	

Plot size	-
No. of farmers	3
Total cost	
Critical input	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Growth performance of multivitamin and mineral in Pangasius fish.
Year/Season:	2024
Farming situation:	-
Problem diagnosis:	Poor growth and low fish production
Thematic area:	Production and Management
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use
T2 –Recommended Practice-	Multivitamin with minerals @ 2% of feed
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-CIFE
Characteristics of technology:	Multivitamin with minerals which essential for the fish growth.
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-20 (Fisheries)

Crop / Enterprise	Fish	
Title of on farm trial	**Assessment of Growth Promoter on IMC and EC.**	
Problem diagnosed	Poor fish growth and Low fish production.	
Farmers' Practices	Not use growth promoter	
Details of technologies selectedfor assessment	T_1	Not use growth promoter
	T_2	Growth promoter use
Source of technology	ICAR-CIFE	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	4000	
Critical input	Growth Promoter	
Performance indicators: I.Technical- **yield (q/ ha)** II.Economic III.Social – **Employment generation**	Growth rate, BC Ratio, Feed back	

Name of Discipline	Fisheries
Title of on-farm trial:	**Assessment of Growth Promoter on IMC and EC.**
Year/Season:	2024
Farming situation:	-
Problem diagnosis:	Poor fish growth and Low fish production.
Thematic area:	Production and Management
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Not use growth promoter
T2 –Recommended Practice-	Growth promoter use
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-CIFE
Characteristics of technology:	Growth promoter which enhances the fish growth through increasing metabolism.
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-21 (Animal Science)

1	Enterprise	Dairy
2	Title of on-farm trial	Assessment of multi enzymes in daily diets of cow to improve digestibility
3	Problem diagnosed	Poor digestibility due to deficiency of enzymes
4	Farming situation	-
5	Production system and thematic area	Animal nutrition
6	Farmers' practices	No supplementation of multi enzymes in diet of animals
7	Details of technologies selected for assessment/refinement Treatments	T1: No supplementation of multi enzymes in diet of animals T2: Use of multi enzymes powder 3-5 g/day in daily diets
8	Source of technology	IVRI
9	No. of animals	10
10	No. of farmers	10
11	Critical input	multi enzymes powder
12	Cost of input	Rs. 1700/-
13	Total cost	Rs. 3000/-
14	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	milk production (lit/day), B:C Ratio

Detailed Information about OFT:

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of multi enzymes in daily diets of cow to improve digestibility
Year/Season:	2024/Kharif
Farming situation:	-
Problem diagnosis:	Poor digestibility due to deficiency of enzymes
Thematic area:	AS
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 supplementation of multi enzymes in diet of animals
T2 –Recommended Practice-	Use of multi enzymes powder 3-5 g/day in daily diets
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IVRI
Characteristics of technology:	Use of multi enzymes powder 3-5 g/day in daily diets improves rumen activities and protein formation leading to improve milk production.
Name of Crop/Enterprises:	Dairy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-22 (Animal Science)

1	Enterprise	Dairy Animals
2	Title of on-farm trial	Assessment of chelated calcium in dairy animals.
3	Problem diagnosed	Low milk production due to calcium deficiency
4	Farming situation	Rainfed
5	Production system and thematic area	AS
6	Farmers' practices	No use of calcium in feeding of dairy animals
7	Details of technologies selected for assessment/refinement Treatments	T1- No use of calcium in feeding of dairy animals
		T2- Use of chelated calcium @ 60 ml/day for 90 days. Chelated calcium absorb easily in body, improve body calcium & better for milk production improvement.
8	Source of technology	NDRI
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Chelated Calcium
12	Cost of input	3500
13	Total cost	4000
14	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	Milk Yield (Lts./day), BC Ratio, Farmers Reaction, Feed back

Detailed Information about OFT:

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of chelated calcium in dairy animals.
Year/Season:	2024/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low milk production due to calcium deficiency
Thematic area:	AS
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 calcium in feeding of dairy animals
T2 –Recommended Practice-	Use of chelated calcium @ 60 ml/day for 90 days.

	Chelated calcium absorb easily in body, improve body calcium & better for milk production improvement.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI
Characteristics of technology:	Use of chelated calcium @ 60 ml/day for 90 days. Chelated calcium absorb easily in body, improve body calcium & better for milk production improvement.
Name of Crop/Enterprises:	Chelated calcium
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-23

Information about Extension OFT:

Title	**Assessment of awareness and adoption of Drip irrigation method in vegetable crop for income generation.**
Season & Year	2024
Problem identified	Lack of knowledge and benefits of drip irrigation in intensive vegetable production.
Thematic Area	Water conservation technology
Farming situation	Irrigated
Name of Technology Intervention under study	Hi - tech horticulture production for more income generation
Farmers Practice	Non user of drip irrigation
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Knowledge level, Adoption level, Land holding, Annual Income, Extent of awareness, Feedback , constraints	

OFT-24

Information about Extension OFT:

Title	Assessment of knowledge & adoption of soil health card based fertilizer application.
Season & Year	2024
Problem identified	Poor knowledge about SHC recommendation
Thematic Area	CBD
Name of Technology Intervention under study	To find out the awareness, knowledge and adoption of farmers toward soil health card practices.
Farmers Practice	Farmers are not using fertilizers as per SHC Recommendation.
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Knowledge level , Adoption level, Constraints	-

OFT-25 (Home Science)

Crop / Enterprise	Biofortified Paddy	
Title of on farm trial	Assessment of Biofortified Paddy Variety DRR 48 and DRR 49 for Nutritional Security of farm women.	
Problem diagnosed	Low nutrition intake through regular consumed Rice in daily diet, Farm women Suffers Zinc & Protein Deficiency	
Farmers' Practices	Pusa Basmati	
Details of technologies selectedfor assessment	T_1	Pusa Basmati
	T_2	DRR-48
	T_3	DRR-49
Source of technology	IIRR, Hyderabad	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	2000	
Critical input	Seed	
Performance indicators: I.Technical- **yield (q/ ha)** II. Economic III. Social – **Employment generation**	Production per unit, Nutritional Intake , Anthropometric Measurement, BC Ratio, Farmers Reaction, Feed back	

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Biofortified Paddy Variety DRR 48 and DRR 49 for Nutritional Security of farm women.
Year/Season:	2024/Kharif
Problem diagnosis:	Low nutrition intake through regular consumed Rice in daily diet, Farm women Suffers Zinc & Protein Deficiency
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
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-	Pusa Basmati
T2 –Recommended Practice-	DRR-48
T3 –Recommended Practice-	DRR-49
Source of technology:	IIRR,Hyderabad
Characteristics of technology:	Biofortified Paddy Variety DRR 48 and DRR 49 for Nutritional Security of farm women.
Name of Crop/Enterprises:	Paddy
Farming situation:	Rainfed
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-26 (Home Science)

Crop / Enterprise	Kodo Millet	
Title of on farm trial	Assessment of High Yielding Variety of Kodo Millet JK-137	
Problem diagnosed	Need of Crop Diversification	
Farmers' Practices	No cultivation of Kodo Millet under Minor Millets	
Details of technologies selectedfor assessment	T_1	No cultivation of Kodo Millet under Minor Millets
	T_2	High yielding variety of Kodo Millet JK-137
Source of technology	JNKVV, 2015	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	1320/-	
Critical input	Kodo JK-137	
Performance indicators: I.Technical- **yield (q/ ha)** II. Economic III. Social – **Employment generation**	Yield q/ha, Nutritional Intake, Anthropometric Measurement, BC Ratio, Farmers Reaction	

Information about Home Science OFT:

Title of on-farm trial:	Assessment of High Yielding Variety of Kodo Millet JK-137
Year/Season:	2024/Kharif
Problem diagnosis:	Need of Crop Diversification
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No cultivation of Kodo Millet under Minor Millets
T2 –Recommended Practice-	High yielding variety of Kodo Millet JK-137
T3 –Recommended Practice-	-
Source of technology:	JNKVV, 2015
Characteristics of technology:	High yielding variety of Kodo Millet JK-137
Name of Crop/Enterprises:	Kodo Millet
Farming situation:	Rainfed
Date of sowing:	Kharif-2024
Date of harvesting:	Kharif-2024
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-27 (Home Science)

Crop / Enterprise	Biofortified Wheat	
Title of on farm trial	Assessment of Biofortified Wheat variety DBW 187 Karan Vandana (DURUM) Variety for Nutritional Security of farm women.	
Problem diagnosed	Low Nutritional status of farm women due to daily Consumption of less protein , Iron and zinc Rich Wheat.	
Farmers' Practices	Traditional Variety GW-322, HI-1544.	
Details of technologies selectedfor assessment	T_1	Traditional Variety GW-322, HI-1544.
	T_2	DBW 187(iron 43.1 PPM)
Source of technology	ICAR – Indian institute of wheat & Barley Research Karnal	
Plot size	0.4 ha	

No. of farmers	5
Total cost	9000
Critical input	Seed
Performance indicators: I.Technical- **yield (q/ ha)** II. Economic III. Social – **Employment generation**	Production per unit, Nutritional Intake, Anthropometric Measurement, BC Ratio, Farmers Reaction, Feed back

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Biofortified Wheat variety DBW 187 Karan Vandana (DURUM) Variety for Nutritional Security of farm women
Year/Season:	2024/Rabi
Problem diagnosis:	Low Nutritional status of farm women due to daily Consumption of less protein, Iron and zinc Rich Wheat.
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
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-	Traditional Variety GW-322, HI-1544.
T2 –Recommended Practice-	DBW 187(iron 43.1 PPM)
T3 –Recommended Practice-	-
Source of technology:	ICAR – Indian institute of wheat & Barley Research Karnal
Characteristics of technology:	DBW 187(iron 43.1 PPM)
Name of Crop/Enterprises:	Biofortified Wheat
Farming situation:	Irrigated
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-28 (Home Science)

Crop / Enterprise	Biofortified Lentil	
Title of on farm trial	Assessment of Biofortified Lentil Variety Pusa Ageti masoor (Pure line variety) for Nutritional Security of farm women.	
Problem diagnosed	Low Nutritional status & Non availability of iron through pulses Consumption in daily diet	
Farmers' Practices	Traditional Variety Black Lentil & Mallika.	
Details of technologies selectedfor assessment	T_1	Traditional Variety Black Lentil & Mallika.
	T_2	Pusa Ageti Masoor (Iron 65.0 PPM)
Source of technology	ICAR - IARI, New Delhi	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	7000	
Critical input	Seed	
Performance indicators: I.Technical- **yield (q/ ha)** II. Economic III. Social – **Employment generation**	Production per unit, Nutritional Intake, Anthropometric Measurement, BC Ratio, Farmers Reaction, Feed back	

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Biofortified Lentil Variety Pusa Ageti masoor (Pure line variety) for Nutritional Security of farm women.
Year/Season:	2024/Rabi
Problem diagnosis:	Low Nutritional status & Non availability of iron through pulses Consumption in daily diet
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
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-	Traditional Variety Black Lentil & Mallika.
T2 –Recommended Practice-	Pusa Ageti Masoor (Iron 65.0 PPM)
T3 –Recommended Practice-	-
Source of technology:	ICAR - IARI, New Delhi
Characteristics of technology:	Pusa Ageti Masoor (Iron 65.0 PPM)
Name of Crop/Enterprises:	Biofortified Lentil
Farming situation:	Irrigated
Date of sowing:	Rabi-2024
Date of harvesting:	Rabi-2024
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	Varietal evaluation	Pusa-1637	Seed	Kharif-2024	4.0	10	Yield q/ha
2	Soybean	Weed Management	Quizalophop 7.5% + Imazethapyre 15% EC @ 175 ml/acre	Weedicide	Kharif-2024	2.0	5	Yield q/ha
3	Wheat	Varietal evaluation	Pusa Tejas (HI-8759), Maturity- 120-125 days, Yield- 65-70 q/ha.	Seed	Rabi-2024	4.0	10	Yield q/ha
4	Lentil	Varietal evaluation	RVL-31, Maturity-105-110 days, Yield-14-15 q/ha.	Seed	Rabi-2024	4.0	10	Yield q/ha
5	Rice	INM	2 ml/liter Nano Urea spray at 20-25 DAT and Dough stage.	Nano Urea	Kharif-2024	4.0	10	Yield q/ha
6	Soybean	INM	Seed treatment with Rhizobium + PSB @ 10 ml/kg seed + KSB	Rhizobium, PSB, KSB	Kharif-2024	4.0	10	Yield q/ha

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
			@2.5 liter/ha.					
7	Wheat	INM	2 ml/liter Nano Urea spray at 20-25 DAT and Dough stage.	Nano Urea	Rabi-2024	4.0	10	Yield q/ha
8	Tomato	INM	First spray at pre flowering stage & Second spray after fruit set @ 0.5% Boron solution	Boron	Rabi-2024	4.0	10	Yield q/ha
9	Chickpea	INM	Seed treatment with Rhizobium + PSB @ 10 ml/kg seed + KSB @2.5 liter/ha.	Rhizobium, PSB, KSB	Rabi-2024	4.0	10	Yield q/ha
10	Onion	HOS	Bhima Super- High yielding, good keeping quality, Resistance against thrips and fungal diseases Mature in 110-120 days.	Bhima Super Seed	Late Kharif-2024	0.4	10	Yield q/ha
11	Garlic	HOV	G-282, Yield: 200-250 q/ha, No. of Cloves/bulb: 20-25, Duration: 120-130 days.	Seed	Rabi-2024	0.2	10	Yield q/ha
12	Tomato	HOV	High yielding tomato hybrid Arka Samrat (Triple disease resistant) fruits oblate to high round, large((90- 110gm) and potential yield 80-85 t/ha.	Seed	Rabi-2024	0.4	10	Yield q/ha
13	Soybean	IPM	IPM module (Bird percher 50/ha + pheromone trap 12/ha + Insecticide Chlorentraniliprole 18.5 SC @ 125 ml/ha).	Bird percher, pheromone trap, Chlorentraniliprole 18.5 SC	Kharif-2024	4.0	10	Yield q/ha
14	Rice	IDM	Seed treatment with Carbendazim @ 2 g/kg + Foliar spray of copper oxy chloride @ 3 g/l	Carbendazim, Copper oxy chloride	Kharif-2024	4.0	10	Yield q/ha
15	Rice	IDM	Seed treatment with Trichoderma viride @ 5 g/kg + Foliar spray of Propiconazole 25 EC @ 500 ml/ha	*Trichoderma viride*, Propiconazole	Kharif-2024	4.0	10	Yield q/ha
16	Chickpea	IPM	Bird percher 50/ha + pheromone trap 12/ha+ NPV 250 LE/ha + Chlorentraniliprole	Bird percher, Pheromone trap, NPV, Chlorentraniliprole.	Rabi-2024	4.0	10	Yield q/ha

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
			18.5 SC @ 125 ml/ha).					
17	Paddy	Nutritional Security (WOE)	Biofortified Paddy Variety CR Dhan 310	Seed	Kharif-2024	4.0	10	Production, Nutritional intake , Anthropometric measurement
18	Pigeon pea	Income Generation WOE	Grain Pro super beg for Income generation through reduced losses during storage practice in pigeon pea	Grain Pro super beg	Kharif-2024	0.4	10	% Saving of seed due to storage
19	Poultry	Income Generation WOE	Demonstration of backyard poultry farming in rural areas for income generation.	20 chicks per unit	Rabi-2024	-	10	Weight/bird, %Mortality, Eggs laying/bird, Income Generation/unit, B:C Ratio
20	Oyster Mushroom	Nutritional Security	Proper subtract (Paddy & Wheat straw) of Oyster Mushroom	Seed, Straw & Holding material	Rabi-2024	-	10	Production/bag (Kg), Nutrient intake & Anthropometric measurement.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	-	-	-
2	Farmers Training	20	-	-
3	Media coverage	20	-	-
4	Training for extension functionaries	2	-	-

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
Dairy	CB	10	10	Chelated Mineral Mixture to Increase Milk Production in dairy Cows.	Milk Yield (Lts/day)	-	-
Dairy	CB	10	10	Hybrid Napier for Fodder production for feeding to dairy animals.	Milk Yield (Lts/day)	-	-

**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
Fisheries	Pangasius	3	0.25 ha	Pangasius	Average productivity	-	-

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	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Kharif, 2024	20	50	Yield (q/ha)
2	Linseed	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Rabi, 2024	20	50	Yield (q/ha)
3	Blackgram	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Kharif, 2024	20	50	Yield (q/ha)
4	Chickpea	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Rabi, 2024	20	50	Yield (q/ha)
5	Lentil	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Rabi, 2024	20	50	Yield (q/ha)
6	Greengram	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Zaid, 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	4	Aug,Sep,Jan.Feb	120
2	Farmers Training	4	Aug,Sep,Jan.Feb	100
3	Media coverage	12		
4	Training for extension functionaries	1	Dec	20

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	-	-	-	-	-	-	**25**
Resource Conservation Technologies	1	1	-	-	-	-	-	-	**25**
Integrated Farming	-	-	-	-	-	-	-	-	**-**
Water management	-	-	-	-	-	-	-	-	**-**
Seed production	1	1	-	-	-	-	-	-	**25**
Integrated Crop Management	2	1	-	-	-	-	-	-	**50**
Total	**5**	**-**	-	-	-	-	-	-	**125**
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1	-	-	-	-	-	-	**25**
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	**-**
Total	**1**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**25**
b) Fruits									
Management of young plants/orchards	1	1	-	-	-	-	-	-	**25**
Total	1	1	-	-	-	-	-	-	**25**
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	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)	**4**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**100**
III Soil Health and Fertility Management									
Soil fertility management	1	1	-	-	-	-	-	-	**25**
Soil and Water Conservation	-	-	-	-	-	-	-	-	**-**
Integrated Nutrient Management	-	-	-	-	-	-	-	-	**-**
Production and use of organic inputs	-	-	-	-	-	-	-	-	**-**
Management of Problematic soils	-	-	-	-	-	-	-	-	**-**
Micro nutrient deficiency in crops	1	1	-	-	-	-	-	-	**25**
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**50**
IV Livestock Production and Management									
Dairy Management	1	1	-	-	-	-	-	-	**20**
Poultry Management	1	1	-	-	-	-	-	-	**20**
Disease Management	1	1	-	-	-	-	-	-	**20**
Feed management	1	1	-	-	-	-	-	-	**20**
Production of quality animal products	1	1	-	-	-	-	-	-	**20**
Total	**5**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**100**
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Design and development of low/minimum cost diet	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Designing and development for high nutrient efficiency diet	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Minimization of nutrient loss in processing	1	1	-	-	-	-	-	-	**25**
Gender mainstreaming through SHGs	1	1	-	-	-	-	-	-	**25**
Value addition	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Income generation activities for empowerment of rural Women	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Location specific drudgery reduction technologies	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Women and child care	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total	**2**	**1**	**-**	**-**		**-**	**-**	**-**	**50**
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	1	1	-	-	-	-	-	-	**25**
Integrated Disease Management	1	1	-	-	-	-	-	-	**25**
Bio-control of pests and diseases	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Production of bio control agents and bio pesticides	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**50**
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	-	-	-	-	-	-	-	**-**	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of rural youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
Capacity Building & Development	3	1	-	-	-	-	-	-	**75**
Total	**3**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**75**
XI Agro-forestry	-	-	-	-	-	-	-	-	-
Total	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
Grand Total	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH									
Mushroom Production	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-
Seed production	1	5	-	-	-	-	-	-	**25**
Planting material production	1	5	-	-	-	-	-	-	**25**
Vermi-culture	1	5	-	-	-	-	-	-	**25**
Value addition	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	1	5	-	-	-	-	-	-	**15**
Para extension workers	-	-	-	-	-	-	-	-	-
Entrepreneurial development of rural youths	-	-	-	-	-	-	-	-	-
TOTAL	**4**	**5**	**-**	**-**	**-**	**-**	**-**	**-**	**90**
(C) Extension Personnel									
Productivity enhancement in field crops	1	1	-	-	-	-	-	-	**20**
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	-	-	-	-	-	-	**15**
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**35**

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1	-	-	-	-	-	-	**25**
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	1	1	-	-	-	-	-	-	**25**
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	1	1	-	-	-	-	-	-	**25**
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	**3**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**75**
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	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	1	1	-	-	-	-	-	-	**25**
Management of young plants/orchards	-	-	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	1	1	-	-	-	-	-	-	**25**
g) Medicinal and Aromatic Plants	1	1	-	-	-	-	-	-	**25**
Total	**5**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**125**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-
Soil fertility management	1	1	-	-	-	-	-	-	**25**
Soil and Water Conservation	1	1	-	-	-	-	-	-	**25**
Integrated Nutrient Management	2	1	-	-	-	-	-	-	**50**
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	2	1	-	-	-	-	-	-	**50**
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	**6**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**150**
IV Livestock Production and Management									
Dairy Management	2	1	-	-	-	-	-	-	**40**
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	2	1	-	-	-	-	-	-	**40**
Feed management	1	1	-	-	-	-	-	-	**20**
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	**5**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**100**
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	1	-	-	-	-	-	-	**50**
Design and development of low/minimum cost diet	1	1	-	-	-	-	-	-	**25**
Designing and development for high nutrient efficiency diet	2	1	-	-	-	-	-	-	**50**
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	2	1	-	-	-	-	-	-	**50**
Location specific drudgery reduction technologies	1	1	-	-	-	-	-	-	**25**
Rural Crafts	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total	**8**	**1**							**200**
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	2	1	-	-	-	-	-	-	**50**
Integrated Disease Management	2	1	-	-	-	-	-	-	**50**
Bio-control of pests and diseases	1	1	-	-	-	-	-	-	**25**
Production of bio control agents and bio pesticides	1	1	-	-	-	-	-	-	**25**
Total	**6**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**150**
VIII Fisheries									
Integrated fish farming	1	1	-	-	-	-	-	-	**25**
Fish disease and their management	1	1	-	-	-	-	-	-	**25**
Importance of lime in fish culture	1	1	-	-	-	-	-	-	**25**
Method of fish fry stock in fish pond	1	1	-	-	-	-	-	-	**25**
Water quality management in fish farming	1	1	-	-	-	-	-	-	**25**
Duckweed : A potential source in aquaculture	1	1	-	-	-	-	-	-	**25**
Total	**6**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**150**
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-
Leadership development	1	1	-	-	-	-	-	-	**25**
Group dynamics	2	1	-	-	-	-	-	-	**50**
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	2	1	-	-	-	-	-	-	**50**
WTO and IPR issues	-	-	-	-	-	-	-	-	-
Total	**5**	**1**	-	-	-	-	-	-	**125**
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH									
Value addition	1	5	-	-	-	-	-	-	**25**
Production of organic inputs	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
TOTAL	**1**	**5**	-	-	-	-	-	-	**25**
(C) Extension Personnel									
Women and Child care	1	-	-	-	-	-	-	-	**25**
TOTAL	**1**	-	-	-	-	-	-	-	**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										
Jul-2024	F&FW	Weed Management	1	-	-	-	-	-	-	**25**
Jun-2024	F&FW	Resource Conservation Technologies	1	-	-	-	-	-	-	**25**
Aug-2024	F&FW	Seed production	1	-	-	-	-	-	-	**25**
Jun-2024	F&FW	Integrated Crop Management	1	-	-	-	-	-	-	**25**
Jul-2024	F&FW	Integrated Crop Management	1	-	-	-	-	-	-	**25**
Horticulture										
May-2024	F&FW	Off-season vegetables	1	-	-	-	-	-	-	**25**
May-2024	F&FW	Management of young plants/orchards	1	-	-	-	-	-	-	**25**
Livestock production										
April, 2024	F&FW	Dairy Management	1	-	-	-	-	-	-	**20**
October, 2024	F&FW	Poultry Management	1	-	-	-	-	-	-	**20**
June, 2024	F&FW	Disease Management	1	-	-	-	-	-	-	**20**
July, 2024	F&FW	Feed management	1	-	-	-	-	-	-	**20**
August, 2024	F&FW	Goat Management	1	-	-	-	-	-	-	**20**
Plant Protection										
Jul-2024	F&FW	Integrated Pest Management	1	-	-	-	-	-	-	**25**
Jun-2024	F&FW	Integrated Disease Management	1	-	-	-	-	-	-	**25**
Agriculture Extension (Capacity Building and Group Dynamics)										
Jul-2024	F&FW	Capacity Building & Development	1	-	-	-	-	-	-	**25**
Nov-2024	F&FW	Capacity Building & Development	1	-	-	-	-	-	-	**25**
Dec-2024	F&FW	Capacity Building & Development	1	-	-	-	-	-	-	**25**
Soil Science										
Jul-2024	F&FW	Soil fertility management	1	-	-	-	-	-	-	**25**
Aug-2024	F&FW	Micro nutrient deficiency in crops	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										
Jul-2024	F&FW	Weed Management	1	-	-	-	-	-	-	25
Jun-2024	F&FW	Crop Diversification	1	-	-	-	-	-	-	25
Jun-2024	F&FW	Nursery management	1	-	-	-	-	-	-	25
Horticulture										
Jun-2024	F&FW	Nursery raising	1	-	-	-	-	-	-	25
Jul-2024	F&FW	Protective cultivation (Green Houses, Shade Net etc.)	1	-	-	-	-	-	-	25
Sep-2024	F&FW	Cultivation of Fruit	1	-	-	-	-	-	-	25
Oct-2024	F&FW	Spices	1	-	-	-	-	-	-	25
Nov-2024	F&FW	Medicinal and Aromatic Plants	1	-	-	-	-	-	-	25
Livestock production										
May, 2024	F&FW	Dairy Management	1	-	-	-	-	-	-	**20**
Nov, 2024	F&FW	Dairy Management	1	-	-	-	-	-	-	**20**
July, 2024	F&FW	Disease Management	1	-	-	-	-	-	-	**20**
Sep, 2024	F&FW	Disease Management	1	-	-	-	-	-	-	**20**
Dec, 2024	F&FW	Feed management	1	-	-	-	-	-	-	**20**
Plant Protection										
Aug-2024	F&FW	Integrated Pest Management	1	-	-	-	-	-	-	**25**
Dec-2024	F&FW	Integrated Pest Management	1	-	-	-	-	-	-	**25**
Aug-2024	F&FW	Integrated Disease Management	1	-	-	-	-	-	-	**25**
Nov-2024	F&FW	Integrated Disease Management	1	-	-	-	-	-	-	**25**
Dec-2024	F&FW	Bio-control of pests and diseases	1	-	-	-	-	-	-	**25**
Dec-2024	F&FW	Production of bio control agents and bio pesticides	1	-	-	-	-	-	-	**25**
Agriculture Extension (Capacity Building and Group Dynamics)										
Feb-2024	F&FW	Leadership development	1	-	-	-	-	-	-	**25**
Mar-2024	F&FW	Group dynamics	1	-	-	-	-	-	-	**25**
Apr-2024	F&FW	Group dynamics	1	-	-	-	-	-	-	**25**
May-2024	F&FW	Entrepreneurial development of farmers/youths	1	-	-	-	-	-	-	**25**
Jun-2024	F&FW	Entrepreneurial development of farmers/youths	1	-	-	-	-	-	-	**25**
Soil Science										
Jul-2024	F&FW	Soil fertility management	1	-	-	-	-	-	-	**25**
Jun-2024	F&FW	Soil and Water Conservation	1	-	-	-	-	-	-	**25**
Jul-2024	F&FW	Integrated Nutrient Management	1	-	-	-	-	-	-	**25**
Aug-2024	F&FW	Micro nutrient deficiency in crops	1	-	-	-	-	-	-	**25**
Dec-2024	F&FW	Integrated Nutrient Management	1	-	-	-	-	-	-	**25**
Dec-2024	F&FW	Micro nutrient deficiency in crops	1	-	-	-	-	-	-	**25**
Fisheries										
Aug-2024	F&FW	Integrated fish farming	1	-	-	-	-	-	-	**25**
Aug-2024	F&FW	Fish disease and their management	1	-	-	-	-	-	-	**25**
Sep-2024	F&FW	Importance of lime in fish culture	1	-	-	-	-	-	-	**25**
Jun-2024	F&FW	Method of fish fry stock in fish pond	1	-	-	-	-	-	-	**25**
Oct-2024	F&FW	Water quality management in fish farming	1	-	-	-	-	-	-	**25**
Jun-2024	F&FW	Duckweed : A potential source in aquaculture	1	-	-	-	-	-	-	**25**
Home Science/Women empowerment										
Jan-2024	FW	Household food security by kitchen	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	
		gardening and nutrition gardening								
Feb-2024	FW	Household food security by kitchen gardening and nutrition gardening	1	-	-	-	-	-	-	**25**
Mar-2024	FW	Design and development of low/minimum cost diet	1	-	-	-	-	-	-	**25**
Mar-2024	FW	Designing and development for high nutrient efficiency diet	1	-	-	-	-	-	-	**25**
Apr-2024	FW	Designing and development for high nutrient efficiency diet	1	-	-	-	-	-	-	**25**
Jul-2024	FW	Income generation activities for empowerment of rural Women	1	-	-	-	-	-	-	**25**
Aug-2024	FW	Income generation activities for empowerment of rural Women	1	-	-	-	-	-	-	**25**
Oct-2024	FW	Location specific drudgery reduction technologies	1	-	-	-	-	-	-	**25**

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jul-2024	RY	Seed production	**5**	**-**	**-**	**-**	**-**	**-**	**-**	**25**
Horticulture										
Jun-2024	RY	Planting material production	**5**	**-**	**-**	**-**	**-**	**-**	**-**	**25**
Livestock production										
May, 2024	RY	Goat farming and Management	5	-	-	-	-	-	-	**15**
Home Science										
Jul-2024	RY	Value Addition	5	-	-	-	-	-	-	**25**
Plant Protection										
-	-	-	-	-	-	-	-	-	-	**-**
Agriculture Extension (Capacity Building and Group Dynamics)										
Jun-2024	RY	Entrepreneurial development of rural youths	5	1	-	-	-	-	-	**25**
Soil Science										
Aug-2024	RY	Vermi-culture	5	-	-	-	-	-	-	**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-2024	IS	Productivity enhancement in field crops	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**20**
Horticulture										
-	-	-	-	-	-	-	-	-	-	**-**
Livestock production										
March, 2024	Extension functionaries	Livestock feed and fodder production	1	-	-	-	-	-	-	**15**
Home Science										
Dec-2024	Extension functionaries	Women and Child care	1	-	-	-	-	-	-	**25**
Plant Protection										
-	-	-	-	-	-	-	-	-	-	**-**
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	**-**
Soil Science										
-	-	-	-	-	-	-	-	-	-	**-**

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	4	-	-	125	-	-	15	-	-	140
Kisan Mela	01		-	-	-	-	-	-	-	1000
Kisan Ghosthi	06	-	-	150	-	-	10	-	-	160
Exhibition	02	-	-	100	-	-	-	-	-	100
Film Show	04	-	-	75	-	-	-	-	-	75
Method Demonstrations	-	-	-	-	-	-	-	-	-	-
Farmers Seminar	04	-	-	150	-	-	15	-	-	165
Workshop	02	-	-	75	-	-	10	-	-	85
Group meetings	06	-	-	200	-	-	10	-	-	210
Lectures delivered as resource persons	20	-	-	-	-	-	-	-	-	Mass
Newspaper coverage	50	-	-	-	-	-	-	-	-	Mass
Radio talks	10	-	-	-	-	-	-	-	-	Mass

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
TV talks	10	-	-	-	-	-	-	-	-	Mass
Popular articles	10	-	-	-	-	-	-	-	-	Mass
Extension Literature	10	-	-	-	-	-	-	-	-	Mass
Advisory Services	-	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	40	-	-	400	-	-	10	-	-	410
Farmers visit to KVK	25	-	-	750	-	-	-	-	-	750
Diagnostic visits	10	-	-	200	-	-	-	-	-	200
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	2	-	-	60	-	-	-	-	-	60
Soil health Camp	2	-	-	60	-	-	-	-	-	60
Animal Health Camp	2	-	-	100	-	-	-	-	-	100
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	2	-	-	75	-	-	-	-	-	75
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	10	-	-	200	-	-	15	-	-	215
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Sahbhagi	5
CEREALS	Paddy	MTU-1010	5
CEREALS	Wheat	HI-1634	100
CEREALS	Wheat	HI-8759	100
CEREALS	Wheat	Karan Vandana	60
CEREALS	Wheat	GW-513	100
OILSEEDS	Soybean	RVSM-1135	15
OILSEEDS	Soybean	NRC-138	10
PULSES	-	-	-
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Water melon	Sagar King	1200
FRUITS	Musk melon	Boby	1200
SPICES	Chilli	Ujala	5000
VEGETABLES	Drumstick	ODC-3	1000
VEGETABLES	Tomato	Arka Samrat	8000
VEGETABLES	Tomato	Abhilash	5000
VEGETABLES	Cauliflower	Arka Vimal	4000
VEGETABLES	Broccoli	KTS-1	7000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-

PLANTATION CROPS	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	*Rhizobium*	-	-	-
BIOFERTILIZERS		-	-	-
1	Vermicompost	-	-	-
2	NADEP	-	-	-
BIO PESTICIDES		-	-	-
1	Dashparni ark	-	-	-
2	Pesticides	-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	**Goat**	**Sirohi**	**7**	**200**
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published
KVK News Letter

Date of start	Periodicity	Number of copies to be published
February-2008	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	-	-	-

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	line dept
4	methodology for identifying OFTs/FLDs	PRA & Group Discussion
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	Urdmau	Badi	30
2	Paimad	Sanchi	40

1. No. of farm families selected per village : 75
2. No. of survey/PRA to be conducted: 2

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2014

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Flame photometer	1	Working
2	Specto photometer	1	Working
3	N Analyzer	1	Non-Working
4	Mridaparikshak	2	Working
5	pH meter	1	Working
6	EC meter	1	Working

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Kisan kalyan avam krishi Vikas Vibhag	Technical Support
Horticulture deptt.	Technical Support
Veterinary deptt.	Technical Support
Agriculture Engineering.	Technical Support
Fisheries Deptt.	Technical Support

Details of linkage with ATMA / NFSM

a**) Is ATMA implemented in your district:** Yes

Name of Programme	Nature of linkage
ATMA	**Technical Support, Training and diagnostic visit**

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Fruit Orchard	**Technical Support**
-	-

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, Feb, Mar	Natural Farming Awareness program	300
Apr, May, Jun, Jul	Natural Farming Training program	300
Jul, Aug	Natural Farming Demonstration	20

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1700 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 20-116, JS 20-69, JS 20-98, RVS 2001-4, JS 2034	Oilseed	1200
Blackgram	Kharif	JU-86, PU-31, PU-35	Pulse	300
Greengram	Kharif	PDM-139, HUM-1	Pulse	100
Pigeonpea	Kharif	Pusa-16, TJT-501, Rajeshwari		100
Wheat	Rabi	HI-8713, HI-8737, HI-8759, Karan Vandana, HI-1634, HD-3236, GW-451, HI-1634, MP-1202, MP-1203, MP-4010, MP-1142	Cereal	1200
Chickpea	Rabi	JG-12, JG-14, JG-16, JG-63	Pulse	300
Lentil	Rabi	RVL-31, IPL-316	Pulse	200

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Meadow Orchard	Guava (L-49)	2000	
Meadow Orchard	Mango (Amrapali)	2000	
Meadow Orchard	Lime (Sai Sarbati)	1000	
Vermi-composting	Vermicompost	64	
Goat Unit	Sirohi	500	
Natural Farming Demo Unit	Natural Farming	2000	
Meadow Orchard	Guava (L-49)	2000	
Meadow Orchard	Mango (Amrapali)	2000	
Meadow Orchard	Lime (Sai Sarbati)	1000	

ANNUAL ACTION PLAN 2024

KVK Ratlam

Year of sanction: 1996

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sarvesh Tripathy	07414-276314	9425387620	kvkratlam@gmail.com

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Matrix with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Sarvesh Tripathy	Sr. Scientist and Head	Agri. Extension	143600	19.09.18	19.09.18	9425387620	sarveshtripathy@gmail.com	
2	Subject Matter Specialist	Dr. Barkha Sharma	SMS	Home Science	61300	14.09.18	14.09.18	9754822000	asbarkhasharma@gmail.com	
3	Subject Matter Specialist	Dr. C.R. Kantwa	SMS	Agronomy	61300	14.09.18	14.09.18	9408424690	crkantwa@gmail.com	
4	Subject Matter Specialist	Dr. Ramdhan Ghaswa	SMS	Agri. Extension	61300	14.09.18	14.09.18	9928003302	ramdhanhorti86@gmail.com	
5	Subject Matter Specialist	Dr. R.S. Bhadauria	SMS	Horticulture	61300	26.09.18	26.09.18	8871752179	rohatashsingh1986@gmail.com	
6	Subject Matter Specialist	Dr. Sushil Kumar	SMS	Animal Husbandry	57800	01.12.20	01.12.20	9350075855	vetsushil09@gmail.com	
7	Subject Matter Specialist	Dr. G.P. Tiwari	SMS	Plant Pathology	57800	02.12.20	02.12.20	9993567959	gyanendratiwari808@gmail.com	
8	Programme Assistant	Dr. Shish Ram Jakhar	PA	Soil Science	36500	01.12.20	01.12.20	9340593286	soilshish1993@gmail.com	
9	Computer Programmer/ Programme Assistant	Manoj Kumar Rajak	P.A.	Computer	62200	16.05.05	16.05.05	9977932896	Mkr.kvk@gmail.com	
10	Farm Manager	-	-	-	-	-	-	-	-	-
11	Assistant	Anil Upadhyay	Accountant	-	52000	11.02.10	11.02.10	9589009989	upadhyay.kvk@gmail.com	
12	Jr. Stenographer / Comp. Operator	Ajit Jain	Stenographer	Hindi Steno	26300	03.12.20	03.12.20	9399375289	98ajitjain@gmail.com	

13	Driver	Mata Prasad Sharma	Driver	-	39400	07.02.00	07.02.00	9981433006	mpspsk1@gmail.com	
14	Driver	Ghyanshyam	Driver	-	36100	01.02.00	01.02.00	9753631433	-	
15	Supporting staff	Niranjan Nath	Supporting staff	-	33400	07.02.00	07.02.00	9179554858	-	
16	Supporting staff	Mukesh	Supporting staff	-	28800	07.02.00	07.02.00	7509152108	-	

1.3 Total land with KVK (in ha): 27.058

S. No.	Item	Area (ha)
1	Under Buildings	4.41
2	Under Demonstration Units	1.5
3	Under Crops	13.5
4	Orchard/Agro-forestry	7.648
5	Others (specify)	-
Total		**27.058**

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	31.03.06		29.41			
2	Farmers Hostel	ICAR	31.03.07		18.39			
3	Staff Quarters (6)	ICAR	31.03.09		32.43			
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system	ICAR	31.03.07		8.54			
7	Threshing floor	ICAR	31.03.06		2.70			
8	Farm godown							
9	Soil and Water Testing Lab	ICAR	31.03.07		8.60			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	06.03.2010	526000	-	Good Condition
Motor Cycle 2	23.03.2010	50000	-	Bad Condition
Bolero(Jeep)	09.04.2019	915000	-	Good Condition

Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2012	34706	-
Computer, Laser Printer	30.03.17, 31.03.12	73500, 6200	-

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

Sl. No.	Tentative Date
1	12.06.2024
2	20.09.2024

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	Crop Production + Fruit + Vegetable + Spices Crop + Cattle
2	AES – 2	Crop Production + Fruit + Vegetable + Cattle + poultry

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Based on the Thornththwaite system of climate classification, Ratlam District has been classified as semi aird and dry sub-humid climatic type. The South West monsoonal rainfall which is key to success of rainfed farming of the district. The climatic soil / water balance date indicates that the district receives surplus rainfall of 283 mm during August and September while remaining period the soil moisture control section remains partly dry suggesting irrigation requirement for achieving potential production. In this AES 4 blocks of ratlam district are covered namely – Jaora, Piploda, Alote and Half part of Ratlam. Under this AES – I received an annual rainfall around 993. The topography of this area genetal slopy and soil are characterize as medium black soil and major crop of this area is soybean, garlic, tomato, wheat and chickpea. The total geographical area is 394045 ha.
2	AES - 2	In this AES 3 blocks of ratlam district are covered namely sailana, bajana and some part of ratlam. The geographical area of this AES II is 94429 ha and topography is moderately sloping. The soil are characterize under medium to shallow black soil and major crop in this area are maize, cotton, tomato and chilli.

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
• Availability of abundant land resources with organic enriched, black cotton fertile soil. • Farmers attraction and awareness toward cultivation of vegetables, floriculture and fruit. • Potential area for production of Wheat and Soybean due to suitable agro-ecological conditions. • Suitable climate condition for cattle, goat and poultry production. • The climate condition and soil of the A.E.S.- I are suitable for garlic production. The garlic variety of Riyawan Silver is one of the profitable and high marketable. • Farmers having basic (traditional) knowledge of crop cultivation. • Availability of enough man power (labour), their nature of hard working and desireness for learning. • Ever growing domestic market and urbanization. • The annual rainfall of Ratlam district is 992.90 mm. (Enough irrigation water are available). • Due to the presence of Neemuch spice and medicinal mandi near the district, farmers get good price for their crops. • Under the one district one product garlic is the one of the processed	• Soil erosion by run off and acidity in the soil in all the region of the district. • Poor soil fertility management, unawareness about green manuring, composting etc. • Imbalance use of fertilizers and insecticide specially blind use of urea. • Reluctance of farmers towards modern varieties and their package of practices, faith in traditional seeds and way of farming. • Water level of the district remains very high during rain season. • Cultivation with very low input and unawareness/negligence for use of available natural resources. • Rampant use of diseased seedlings as a planting material. • unusual and long spell of rainfall (untimely and unseasonal) caused land slide and soil erosion and due to this problem, communication and transport system paralyzed in the district. • Lack of awareness regarding soil testing. • Lack of knowledge on integrated management like – IPM, IPNM, IWM. • Reluctant to adopt HYVs of wheat because traditional wheat variety in much tastier than HYVs. (i.e. Preferences is mostly by taste of the variety) • Seed treatment is not in practice due lack of awareness. • Farmers having non commercial mindset, they are only dependant on traditional cultivation practices for crop production resulting in low productivity. • Unavailable suitable varieties for the location and their package of practices. • Lack of knowledge and awareness on the use of farm	• Scope for promotion of organic farming and its trade at national & global level. • Promotion of Horticultural crops especially dragon fruit, Orange, Grapes & strawberry in various pockets of the district. • Good scope for promoting organic and natural vegetable production. • Favourable condition for cultivation of medicinal, spices and aromatic plants in the entire district. • Improvement in productivity by introduction of different location specific varieties and their packages of practices. • Production and distribution of various disease free, certified seeds and planting materials. • Opportunity to promote micro-irrigation technology. • Scope of land reforms and reclamation through proper soil nutrient management. • The commencement of express way facility from Delhi to Mumbai farmers of the Ratlam district can have a good future, if they cultivated vegetable in a group. • Higher market potential due to	• **E**rratic rainfall (untimely and un-seasonally) which causes soil loss, land slide and severe infestation of insect pests and diseases. • Frosty weather during winter which causes crop loss and attack of pests and diseases. • Attack of Neel Gaay on crops during crop season. • Farmers dependency on government schemes on agriculture, horticulture and allied sectors. • Higher rate of population growth 19.67 % approx. (decadal) which cause small size of land holding. • Urbanization of villages and migration of farm labours into the urban areas. • No fixation of price in agriculture produces and availability of

crop.	implements. • Insufficient government credit institution and its linkages with farming community. • Un availability of agriculture based enterprises. • Lack of proper channel of market and traditional way of selling the produce.	nearest of two state border. • Good scope of establishing agriculture based industries and generation of employment. • Application of Post Harvest technology and value addition in the products.	proper markets.

AES-2 (name)

Strength	Weakness	Opportunities	Threats
• Availability of abundant land resources with organic enriched, black cotton fertile soil. • Farmers attraction and awareness toward cultivation of vegetables, floriculture and fruit. • Potential area for production of Wheat, Chickpea, Cotton, Maize and Soybean due to suitable agro-ecological conditions. • Suitable climate condition for cattle, goat and poultry production. • Farmers having basic (traditional) knowledge of crop cultivation. • Availability of enough man power (labour), their nature of hard working and desireness for learning. • Ever growing domestic market and urbanization. • The annual rainfall of Ratlam district is 992.90 mm. (Enough irrigation water are available). • Due to the presence of Neemuch spice and medicinal mandi near the district, farmers get good price for their crops. • Under the one district one product garlic is the one of the processed	• Soil erosion by run off and acidity in the soil in all the region of the district. • Poor soil fertility management, unawareness about green manuring, composting etc. • Imbalance use of fertilizers and insecticide specially blind use of urea. • Reluctance of farmers towards modern varieties and their package of practices, faith in traditional seeds and way of farming. • Water level of the district remains very high during rain season. • Cultivation with very low input and unawareness/negligence for use of available natural resources. • Rampant use of diseased seedlings as a planting material. • unusual and long spell of rainfall (untimely and unseasonal) caused land slide and soil erosion and due to this problem, communication and transport system paralyzed in the district. • Lack of awareness regarding soil testing. • Lack of knowledge on integrated management like –IPM, IPNM, IWM. • Reluctant to adopt HYVs of wheat because traditional wheat variety in much tastier than HYVs. (i.e. Preferences is mostly by taste of the variety) • Seed treatment is not in practice due lack of awareness. • Farmers having non commercial mindset, they are only dependant on traditional cultivation practices for crop production resulting in low productivity.	• Scope for promotion of organic farming and its trade at national & global level. • Promotion of Horticultural crops especially Custard Apple in Sailana and Bajana Block. • Good scope for promoting organic and natural vegetable production. • Favourable condition for cultivation of medicinal crops and and custard apple in Sailana and Bajana Block • Improvement in productivity by introduction of different location specific varieties and their packages of practices. • Production and distribution of various disease free, certified seeds and planting materials. • Opportunity to promote micro-irrigation technology. • Scope of land reforms and reclamation through proper soil nutrient management. • The commencement of express way facility from Delhi to Mumbai farmers of the Ratlam district can have a good future, if they cultivated vegetable in a group. • Higher market potential due to nearest	• Erratic rainfall (untimely and un-seasonally) which causes soil loss, land slide and severe infestation of insect pests and diseases. • Frosty weather during winter which causes crop loss and attack of pests and diseases. • Attack of Neel Gaay on crops during crop season. • Farmers dependency on government schemes on agriculture, horticulture and allied sectors. • Higher rate of population growth 19.67 % approx. (decadal) which cause small size of land holding. • Urbanization of villages and migration of farm labours into the urban areas. • No fixation of price in agriculture produces and availability of proper markets.

crop.	• Unavailable suitable varieties for the location and their package of practices. • Lack of knowledge and awareness on the use of farm implements. • Insufficient government credit institution and its linkages with farming community. • Un availability of agriculture based enterprises. • Lack of proper channel of market and traditional way of selling the produce.	of two state border. • Good scope of establishing agriculture based industries and generation of employment. • Application of Post Harvest technology and value addition in the products.	

Add AES if needed

Land Use Pattern

Particulars	**Area "000 ha"**
Total Geographical area	486
Forest	36.2
Waste Land	1.9
Other than cultivated area	27.5
Cultivable waste and alkaline land	15.2
Pastures	28.6
Bushes	-
Current Fallow	1.3
Other Fallow	1.1
Agricultural Land	341.5
Area Sown	341.5
Kharif	341.5
Rabi	299.95
Zaid	15.31
Cropping Intensity	1.87

Irrigated Area with Different Sources:

S. No.	**Description**	**Area (ha)**
1	Canal	11.53
2	Well	65.9
3	Tube well	141.7
4	Ponds	21.16
5	Others	42.76

Soil types

S. No.	**Soil type**	**Characteristics**	**Area "000 ha"**
1	Deep Soil	It has a clayey texture and is very fertile in nature. The soil is rich in micro-nutrient. The pH of black soil ranage	292.60

		from 7.2 – 8.5 at 25oc. It is generally soft when wet but gets hard on dryin. There soils are very fertile and are useful in the cultivation of various types of crops.	
2	Medium deep soil	Soil surface is 20 to 36 inches from a layer than retards roof development.	41.20
3	Shallow soil	Shallow soil have less than 50 cm depth of solum. Generally they have a thin A horizon over the bed rock or the parent material. They are highly erodible. Some soils are considered shallow ground water table so that root cannot penetrate those shallow layers.	151.60
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	291939	156479	536
2	Cotton	18306	14645	800
3	Maize	23000	74198	3226
4	Black Gram	3148	1681	534
5	Green Gram	86	32	372
6	Pigeon pea	151	108	714
7	Wheat	214917	1076734	5010
8	Chickpea	37231	68654	1844
9	Lentil	2818	2282	810
10	Pea	3117	4114	1320
11	Mustard	3977	7290	1833
12	Linseed	1868	3027	1620

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

Month /Year	Rainfall (mm)	Temperature (^{0}C)	
		Maximum	Minimum
Jan. 2023	20	26.10	12.31
Feb. 2023	0	29.57	17.80
Mar. 2023	25	34.11	21.25
Apr. 2023	8	28.82	26.43
May. 2023	7	39.50	27.40
Jun. 2023	114	37.79	28.64
July. 2023	500	29.69	23.95
Aug. 2023	142	29.90	24.52
Sept. 2023	469	30.29	22.9
Oct. 2023	0	32.20	21.61
Nov. 2023	24	29.47	18.57
Dec. 2023	22	26.44	14.28

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	322618	…….. MT.	…… kg
Buffalo	172635	…….. MT.	……. kg
Sheep			
Crossbred/ Indigenous	5928	…… MT wool	……. kg
Goats	204180	…… MT	……. kg
Pigs *Crossbred/ Indigenous*	2142	---	---
Rabbits			
Poultry			
Hens	142162	113.80 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	Ratlam	Ratlam	Hatnara	Soybean, Chickpea, Wheat, Garlic & Onion	Low Yield, Deficiency of micro-nutrient in animals, weed infestation, pod-borer in chickpea, high production cost due to imbalance use of fertilizer. Disease and pest infestation.	• Crop diversification and climate resilient technology. • Promotion for soil and water conservation – recharging tube well & dug well. • Integrated nutrient and soil health management. • Awareness for micro irrigation system and fertigation. • Integrated pest & disease management and need based use of insecticide and fungicide for the management of insect pest and disease of different crops.
2	Ratlam	Ratlam	Simlawada	Soybean, Chickpea, Wheat, Pea, Garlic, Onion & Large Animal	Low Yield, Deficiency of micro-nutrient in animals, weed infestation, pod-borer in chickpea, high production cost due to imbalance use of fertilizer. Weed infestation. Low milk yield.	
3	Jaora	Jaora	Kalaliya	Soybean, Chickpea, Wheat, Garlic, Onion & Cattles.	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, High incidence of infertility in dairy cattle's.	
4	Jaora	Jaora	Mundli	Soybean, Chickpea, Wheat, Garlic & Onion	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure.	
5	Jaora	Jaora	Dhodhar	Soybean, Chickpea, Wheat, Garlic, Onion & Cattle	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, High incidence of infertility in dairy cattle's.	
6	Jaora	Jaora	Pipliya jodha	Soybean, Chickpea, Wheat, Garlic, Linseed, Onion & Large Animal	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, . Low milk yield.	
7	Piploda	Piploda	Badayala Mata Ji	Soybean, Chickpea, Wheat, Garlic, Lentil &	Kitchen gardening for production of nutritional food by women farmers, less use of organic manure, Lack of awareness about	

				Onion	nutritional food. Lack of knowledge about ICT tools.	• Awareness and promotion of organic farming. • Promotion of spices, vegetable, fruits, medicinal and floriculture. • Cross breeding, grading and selective breeding of dairy cattle with feed management. • Promotion of quality fodder production and availability of greens all the year ground. • Promotion of improved farm implements to reduce labour cost input. • Promotion of post harvest management and effective marketing specially for horticulture crop produce. • Promotion of farmers organization through self help group and kisan club. • Women empowerment and drudgery reduction. • Integrated Farming System (IFS)
8	Piploda	Piploda	Sukheda	Soybean, Chickpea, Wheat, Garlic, Onion & Cattle	Low Yield, Deficiency of micro-nutrient in animals, weed infestation, pod-borer in chickpea, high production cost due to imbalance use of fertilizer. Weed infestation. Low milk and Meet production	
9	Piploda	Piploda	Semaliya	Soybean, Chickpea, Wheat, Garlic, Lentil & Onion	Kitchen gardening for production of nutritional food by women farmers, less use of organic manure, Lack of awareness about nutritional food. Lack of knowledge about ICT tools.	
10	Piploda	Piploda	Ummedpura	Soybean, Chickpea, Wheat, Garlic, Onion & Nutritional Security	Low Yield, Deficiency of micro-nutrient in animals, weed infestation, pod-borer in chickpea, high production cost due to imbalance use of fertilizer. Weed infestation.	
11	Alot	Alot	Vikramgarh	Soybean, Chickpea, Wheat, Mustard Garlic & Onion	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure.	
12	Alot	Alot	Mandawal	Soybean, Chickpea, Wheat, Mustard Garlic & Onion & Dairy Farming	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure,	
13	Alot	Alot	Akyakhurd	Soybean, Chickpea, Wheat, Mustard Garlic & Onion & Dairy Farming	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, High incidence of infertility in dairy cattle's.	
14	Sailana	Sailana	Sarwan	Maize, Cotton, Soybean, Chickpea, Wheat, Poultry & Cattle	High production cost due to imbalance use of fertilizer, Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Low milk meat and egg production, Deficiency of micro nutrients in animals.	
15	Bajna	Bajna	Raoti	Cotton, Maize, Wheat, Cucurbits & Poultry	Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Low milk meat and egg production, Deficiency of micro nutrients in animals	

Priority / Thrust areas

S. No.	Particulars
1	Crop diversification and climate resilient technology.
2	Promotion for soil and water conservation – recharging tube well & dug well
3	Integrated nutrient and soil health management
4	Awareness for micro irrigation system and fertigation.
5	Integrated pest & disease management and need based use of insecticide and fungicide for the management of insect pest and disease of different

	crops.
6	Awareness and promotion of organic and natural farming
7	Promotion of spices, vegetable, fruits, medicinal and floriculture.
8	Cross breeding, grading and selective breeding of dairy cattle with feed management.
9	Promotion of quality fodder production and availability of greens all the year round.
10	Promotion of improved farm implements to reduce labour cost input
11	Promotion of post harvest management and effective marketing specially for horticulture crop produce.
12	Promotion of farmers organization through self help group and kisan club.
13	Women empowerment and drudgery reduction.
14	Awareness and Promotion of Millets.
15	Integrated Farming System (IFS)

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
24	406	21	210

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
46	1110	388	10362

Seed Production (Qtl.)	Planting material (Nos.)
170	12900

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	Nutritional Security	Wheat	Lack of Awareness about nutritious food , Poor intake of moringa in their regular diets, to	Assessment of Impact of fortified wheat flour with moringa leaf	• Demonstration on Cultivation of Bio-fortified Wheat Crop Variety. • Demonstration of	Importance and cultivation of colored vegetables and fruit in daily diet.	Low cost and nutrient rich diet	**Field Day**	-

			inculcate knowledge on moringa & regular intake in their diets	powder for the improvement of nutritional status of farm women	Nutritional Kitchen garden at backyard • Demonstration of Bio fortified maize variety IQMH-203		designing for dietary diversity of farm families		
2	Nutritional Security	Enterprise	Lack of Awareness about nutritious food and poor sanitation & hygiene		Demonstration of green leafy multigrain flour chapati for improvement of haemoglobin levels in farm women	-	-	**Field Day**	
3	Promotion of Millets crops	Pearl Millets	Lack of awareness regarding healthy food	Assessment on Consumption of Bio fortified Pearl Millet Crop Variety RHB – 234	-	Importance & Use of Millets Crops	-	-	
4	Women and Child Care	Enterprise	Lack of awareness regarding healthy food	Assessment of inclusion of Amylase Rich Food (ARF's) in porridge among weaning infants (0-5 Years)	-	Value addition and preservation techniques of fruits & vegetables Management of Malnutrition in Childrens and women			
5	Varietal Evaluation of oilseed crops	Soybean	Low yield due to old variety	Assessment of soybean variety NRC - 130	Demonstration of HYV (JS-2172)	Latest Production Technology of Kharif Crops			
6	IWM	Soybean	Low yield due to heavy weed infestation	Assessment of Propaquizafop 2.5% + Imazethapyr 3.75% herbicide for control of mix weed flora in soybean	Demonstration of weedicide Imazathapyr 35 % WG + Imazamox 35 % WG (70% WG) @ 100 gm A.I./ha at 15 to 20 DAS				
7	IWM	Wheat	Low yield due to heavy weed infestation	Assessment of Clodinafop propargyl 15% + Metsulfuron methyl 1 % herbicide for					

				control of complex weed flora in wheat crops					
8	Varietal Evaluation	Wheat	Low yield due to use of old variety.		Demonstration of wheat variety HI- 1636	Latest Production Technology of Rabi Crops Post-harvest technology for Kharif crops	Latest Production Technology of Rabi Crops		
9	Varietal Evaluation	Chick Pea	Low yield due to use of old variety.		Demonstration of Chick Pea variety RVG-204				
10	Natural Farming	Chick Pea	Deteriotion of soil fertility due to continuous use of fertilizers	Assessment of Natural Component (Jiwamrit, Beejaamrit, Neemastra, Brahmastra) in Chickpea crop.					
11	Varietal Evaluation of Vegetable crop	Okra	Low production due to many reasons.	Assessment of Lady Finger VRO - 22 (Kashi Kranti)	-	• How To Improve vegetable fruit Quality in Ratlam. • Summer cultivation of Okra & tomato for more income			
12	Varietal Evaluation of spice crop	Turmeric / Onion	Due to less area in the district	Assessment of Turmeric Variety – Selam	• Demonstration of Onion Variety L-883 • Demonstration of Onion Variety NHRDF Red-3	Production Technology of Bulb crops	-	Field Day	
13	Varietal Evaluation of spice crop	Coriander/ Nigella	Low yield due to use of local variety.	Assessment of Coriander variety ACR – 02	Demonstration of Nigella HYV A. N. -20	Seed Processing in Seed Spices Crops	-		
14	Varietal Evaluation of spice crop	Garlic	Low yield due to use of local variety.	Assessment of Garlic variety Yamuna Purple – 404		-	Production Technology of Garlic, Onion and Opium		

15	IWM	Onion	Low yield due to heavy weed infestation		Demonstration of Quizalofop Ethyl 5 % EC				
16	Feed Management of Dairy Cattle	Enterprise	Low milk yield and income due to conventional ration feeding	Assessment of bye pass protein on milk production in dairy Buffalo	Demonstration of Azola feeding for increase milk production.	-	-	Field Day	
17	Feed Management of Dairy Cattle	Enterprise	Calcium deficiency and low fertility in high yielding dairy Buffalo	Assessment of oral calcium supplements and de-wormer on production and fertility in Buffalo	Demonstration of probiotic Saccharomyces cervices and liquid feed supplementation ostovet feeding in buffalo.	Feeding Management in Animal.	-	Field Day	
18	Micro nutrient supplement	Enterprise	Low milk yield due to deficiency of mineral mixture in cattle after calving	Assessment of use of Mineral Mixture Supplementation in Dairy cattle Assessment of mineralizes salt lick on growth performance of small ruminants.		Management of small ruminant.			
19	Indigenous Technical Knowledge	Enterprise	Low milk production.	Assessment of Use of Mixture of Ajwain, Fenugreek, Sugar and Pigeon pea to increase the milk production in cattle	Demonstration for control of white fly in soybean crops for use extract leaves of lantana camera.	-	-	Field Day	
20	Promotion of quality fodder production	Barseem	-	-	Demonstration of high yielding Barseem variety J.B.S.C.-1 for production of green fodder	Green fodder production through out / round the year.	-	**Field Day**	
21	Poultry Production	Enterprise	-	-	Improved Varity of Poultry Birds (Kadaknath)	Vaccination & important disease of poultry - its causes & treatment		**Field Day**	
22	Integrated Pest	Maize/ Soybean/	Losses about 30-35 % due to heavy	Assessment of IPM module against fall	• Demonstration on Management of girdle	• IDM & IPM of Rabi crops.	-	**Field Day**	-

	Management	Onion / Chick Pea/ Mustard	infestation of fall armyworm in Maize crop, infested area is of 8000 ha out of 23000 ha	armyworm in Maize Assessment of Thiacloprid inof Girdle Beetle Management in Soybean Crop.	beetle and semilooper in Soybean. • Demonstration on Management of thrips in Kharif Onion. • Demonstration on Management of Aphind in Mustard. • Demonstration on Management of pod borer in Chick pea	• Integrated disease and pest management through cultural practices.			
23	Integrated Disease Management	Tomato/ onion	Low yield of Tomato/ onion due to attack of early blight	Assessment of IDM against Early blight in Tomato Assessment on IDM Against stemphyllium disease in Onion	-	IDM & IPM of Kharif crops	Disease and Pest Management in Kharif and Rabi crops.		
24	Integrated Nutrient Management	Maize	Farmers used urea two times only which reduce the efficiency of fertilizer	Assessment of split nitrogen application in Maize	-				
25	Organic Farming / Natural Farming	Soybean / Chickpea	High Production Cost due to Chemical Fertilizer	Assessment of Liquid Organic Manure (Pachgava+Vermiwash) on Growth of Chickpea		• Production techniques and application methods of bio-fertilizers • Important role of natural farming in environment and food security. • Natural Farming • Use of Natural product like ghanjeevamrit and jeevamrit in fruit and vegetable crops			

						• Natural Farming			
26	Information Communicatio n Technology	Enterprise	• Lack of timely dissemination of agricultural messages • Lack of timely available solution of the problems • Unawareness about agricultural related news and events • Lack of interaction of farmers with agricultural scientists and experts.	Study on Mobile Apps in Dissemination of Agricultural Technology	-		Awareness regarding Mobile Apps and Website related with agriculture.		
27	Impact Assessment	Enterprise	Low Yield of Chickpea due to Weed infestation	Impact Study of Cluster Frontline Demonstration of Lentil Technology	-	-	-		

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	1	2	-	-	-	-	-	-	-	**3**
Horticulture (Veg)	-	-	-	-	1	-	-	-	3	**4**
Horticulture (Spice)	-	-	-	-	-	-	-	-	-	**-**
Pest Management	-	-	-	-	-	-	-	-	-	**-**
Integrated Pest Management	1	1	-	-	-	-	-	-	-	**2**
Integrated disease Management	-	-	-	-	1	-	-	-	1	**2**
Soil Health and Fertility Management	1	-	1	-	-	-	-	-	-	**2**
Capacity building	-	-	1	-	-	-	-	-	-	**1**
Home Science	1	-	-	-	-	-	-	-	-	**1**
TOTAL	4	3	2	-	2	-	-	-	4	**15**

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Livesstock Production Management	4	-	-	1	-	-	-	**5**
TOTAL	4	-	-	1	-	-	-	**5**

Details of On Farm Trial (OFT)

Detailed Information about OFT : 1

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of soybean variety NRC - 130
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old variety
Thematic area:	Crop Production
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers practice (JS-9560)
T2 –Recommended Practice-	Medium duration variety JS -2034 + RDF (NPKS 25:60:40:20)+ seed treatment (Carbendazim + mancozeb @2.5 gm/kg)+ culture (Rhizobium @ 10 ml/kg & PSB@ 10 ml/kg)
T3- Recommended Practice-	Medium duration variety NRC - 130 + RDF (NPKS 20:60:40:20) + seed treatment (Carbendazim + mancozeb @2.5 gm/kg)+ culture (Rhizobium @ 10 ml/kg & PSB@ 10 ml/kg)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IISR, Indore 2021
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 2

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Propaquizafop 2.5% + Imazethapyr 3.75% herbicide for control of mix weed flora in soybean
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy weed infestation
Thematic area:	Soybean- Wheat and IWM
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-	Imazethapyr 10 SL @ 1.0 lt/ha
T2 –Recommended Practice-	Propaquizafop 2.5% + Imazethapyr 3.75% @ 2.0 lt/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IISR, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 3

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Clodinafop propargyl 15% + Metsulfuron methyl 1 % herbicide for control of complex weed flora in wheat crops
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated

Problem diagnosis:	Low yield due to heavy weed infestation
Thematic area:	Crop Production
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of 2, 4- D herbicide
T2 –Recommended Practice-	Clodinafop-propargyl 15% + Metsulfuron-methyl 1% @ 64 g/ha at 35 DAS
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IARI Wheat Regional Station, Indore
Characteristics of technology:	-
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 4

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Component (Jiwamrit, Beejaamrit, Neemastra, Brahmastra) in Chickpea crop.
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Deteriotion of soil fertility due to continuous use of fertilizers
Thematic area:	Chickpea-Soybean and Natural farming
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 Fertilizer

T2 –Recommended Practice-	Use of Natural Component.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCOF, Ghaziabad 2015-16
Characteristics of technology:	-
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 Lady Finger VRO - 22 (Kashi Kranti)
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low production due to many reasons.
Thematic area:	Horticulture (Vegetable Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local
T2 –Recommended Practice-	Kashi Pragati
T3- Recommended Practice-	HYV (VRO – 22) YVMV / OLCV resistant
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR, Varanasi U.P. – 2011
Characteristics of technology:	-
Name of Crop/Enterprises:	Lady Finger

Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 6

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Turmeric Variety – Selam
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Due to less area in the district
Thematic area:	Horticulture (Spice Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Roma
T2 –Recommended Practice-	Selam
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Coimbatore, T.N.
Characteristics of technology:	-
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 7

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Coriander variety ACR – 02

Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety.
Thematic area:	Horticulture (Seed Spice Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Local
T2 –Recommended Practice-	ACR - 01
T3- Recommended Practice-	HYV (ACR – 02)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRCSS, Ajmer (Rajasthan) - 2018
Characteristics of technology:	Good Quality Seed Production
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 8

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Garlic variety Yamuna Purple – 404
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety.
Thematic area:	Horticulture (Spice Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Local
T2 –Recommended Practice-	G-323
T3- Recommended Practice-	Yamuna Purple – 404
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NHRDF KARNAL - 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Garlic
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 bye pass protein on milk production in dairy Buffalo
Year/Season:	Kharif 2024
Farming situation:	-
Problem diagnosis:	Low milk yield and income due to conventional ration feeding
Thematic area:	Livestock Production 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-	Use of choker & cakes (conventional feed)
T2 –Recommended Practice-	Use of Bye- Pass protein @ 50 gm per animal per day after calving for three month
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IVRI, Izatnagar - 2014

Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
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 oral calcium supplements and de-wormer on production and fertility in Buffalo
Year/Season:	Kharif 2023
Farming situation:	-
Problem diagnosis:	Calcium deficiency and low fertility in high yielding dairy Buffalo
Thematic area:	Livestock Production 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-	Traditional Practice
T2 –Recommended Practice-	Oral calcium supplement and de-worming.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal - 2010
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
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 use of Chelated Mineral Mixture Supplementation in Dairy cattle
Year/Season:	Rabi 2024-25
Farming situation:	-
Problem diagnosis:	Low milk yield due to deficiency of mineral mixture in cattle after calving
Thematic area:	Livestock Production 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 mineral mixture
T2 –Recommended Practice-	Mineral mixture supplementation @ 50 gm per animal per day after calving up to 90 days.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDVSU, Jabalpur - 2014
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
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 mineralizes salt lick on growth performance of small ruminants.
Year/Season:	Rabi 2024-25
Farming situation:	-
Problem diagnosis:	Low growth rate

Thematic area:	Livestock Production 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-	Farmer practice not using any salt lick (Goat)
T2 –Recommended Practice-	Mineralized salt lick @ 1 lick/2 goats for two months
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TANVASU, 2020
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 13

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Use of Mixture of Ajwain, Fenugreek, Sugar and Pigeon pea to increase the milk production in cattle **(ITK)**
Year/Season:	Rabi 2023-24
Farming situation:	-
Problem diagnosis:	Low milk production.
Thematic area:	Livestock Production 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-	Traditional Practice

T2 –Recommended Practice-	Use of 50g Ajwain, 150g Fenugreek, 500g Sugar and 500g Pigeon Pea in 1.0 lit. water give to animal twice a day upto 90 days
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ITK in Agriculture Document – 2, Page No. 331
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 14

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Thiacloprid inof Girdle Beetle Management in Soybean Crop.
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean about 30-40 % losses due to heavy infestation of Girdle beetle (Area 120000 ha, Area affected 80%)
Thematic area:	Pest Management
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Profenophos 50% EC @ 1.5 lit /ha at 30 days after sowing
T2 –Recommended Practice-	Chlorantraniliprole 18.5 % SC @ 150 ml/ha at 35 DAS
T3- Recommended Practice-	Thiacloprid 21.7 % SC @ 750 ml/ha at 35 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIB 2016
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 15

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module against fall armyworm in Maize
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Losses about 30-35 % due to heavy infestation of fall armyworm in Maize crop, infested area is of 8000 ha out of 23000 ha
Thematic area:	Integrated Pest Management
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Not aware about the pest
T2 –Recommended Practice-	Seed treatment with Chlorantraniliprole 19.8% + Thiamethoxam 19.8% @4 g/kg seed + Eraction of bird perches @ 25/ha + Installation of fugiperda pheromone trap @ 37/ha + Need based application of B.t. var. Kurstaki @ 1000 g/ha
T3- Recommended Practice-	Seed treatment with Chlorantraniliprole 19.8%+ Thiamethoxam 19.8% @4 g/kg seed +Eraction of bird perches @ 25/ha + Installation of fugiperda pheromone trap @ 37/ha + Need based application of Emamectin benzoate 5% S.G. @ 200 g/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	GoI, Vide letter O.M. No.F/13-160/2019-SD. IV, dated 06.05.2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 16

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IDM against Early blight in Tomato

Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Tomato due to attack of early blight
Thematic area:	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-	No use of integrated disease management module
T2 –Recommended Practice-	Seedling treatment with Trichoderma viridae@10ml/lt water + soil treatment with Thrichoderma species@ 5 Lt/ ha and need based foliar application of Trichoderma viridae @ 0.2% at the time 25 -30 DAP+ Tebuconazole 25.9%EC @ 0.1% at the time 40-45 day DAP and propiconazole 25% EC@ 0.1% at the time of 65-70 DAP
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 17

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment on IDM Against stemphyllium disease in Onion
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of onion due to Incidence of Stemphyllium
Thematic area:	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-	No use of Integrated Disease Management.
T2 –Recommended Practice-	Summer deep ploughing + Seed treatment with carbendazim 12%+ Mancozeb 63% @2.5 g/kg seed + Soil application of Trichoderma spp @5L/ha + Need based foliar application of Tabuconazole 50 + Trifloxystribin 25 % W/W 75 WG @250g/ ha at the time 20-25 DAS and Tabuconazole 10% + Sulphur 65%@ 1 kg/ha @ the time 45 -50 Days.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCIPM 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 18

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of split nitrogen application in Maize
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Farmers used urea two times only which reduce the efficiency of fertilizer
Thematic area:	Soil Health and 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-	Apply urea two times only which reduce the efficiency of fertilizer.

T2 –Recommended Practice-	**Nitrogen application Three times.** (i) Basal Dose (33% RDF) (ii) Knee height stage (33% RDF) (iii) Tesseling Stage (33% RDF)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-IIMR-Ludhiana – 2011
Characteristics of technology:	-
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 19

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Liquid Organic Manure (Pachgava+ Vermiwash) on Growth of Chickpea
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	High Production Cost due to Chemical Fertilizer
Thematic area:	Soil Health and Fertility management
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	T1 - Application of DAP and Urea.
T2 –Recommended Practice-	T2 – T1 + Application of Pachgava 3% at 25 & 40 DAS
T3- Recommended Practice-	T3 – T2 + Application Vermi wash 10% at 25 & 40 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Prakratik Krishi - Book Author Shri Acharya Devvratji, Hon. Governor, State of

	Gujarat – 4th Edition 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

Information about Extension OFT : 1

Title	Study on Mobile Apps in Dissemination of Agricultural Technology
Season & Year	Kharif 2024
Problem identified	• Lack of timely dissemination of agricultural messages • Lack of timely available solution of the problems • Unawareness about agricultural related news and events • Lack of interaction of farmers with agricultural scientists and experts.
Thematic Area	Capacity Building
Farming situation	-
Name of Technology Intervention under study	Selection of different Mobile Apps developed by ICAR Institute and SAUs.
Farmers Practice	100
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	**Unit/ details**
To measures the knowledge level about Agricultural Mobile app user. Extent of utilization. Extent to dissemination. Timeliness.	

Information about Extension OFT : 2

Title	Impact Study of Cluster Frontline Demonstration of Linseed Technology
Season & Year	Rabi 2024-25
Problem identified	Low Yield of Linseed due to Weed infestation
Thematic Area	-

Farming situation	-
Name of Technology Intervention under study	Impact study on important technology demonstrated through CFLD.
Farmers Practice	No adoption of improved Technology
No. of replication (Farmers)	**84 (2 block)**

Results / findings

Performance indicators/ parameters	**Unit/ details**
• Technology Gap will be measured as Potential Yield Demonstration Yield. • Extension Gap will be measured as Demonstration yield farmer's yield. • Extension Index (%) will be measured as (Technology Gap / extension Gap) x 100	

Information about Home Science OFT:

Information about Home Science OFT : 1

Title of on-farm trial:	Assessment of Impact of fortified wheat flour with moringa leaf powder for the improvement of nutritional status of farm women
Year/Season:	Kharif 2024
Problem diagnosis:	Lack of Awareness about nutritious food , Poor intake of moringa in their regular diets, to inculcate knowledge on moringa & regular intake in their diets
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	3
No. of farmers/farm women involved	21
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Only wheat flour
T2 –Recommended Practice	wheat+ soya flour (9:1)
T3 –Recommended Practice	wheat+ soya flour (9:1) + moringa leaf powder
Source of technology:	P. Kumari & Md. Mustafa, The Pharma Innovation Journal 2022; SP-11(11): 247-250 (2022)
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises

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

Information about Home Science OFT : 2

Title of on-farm trial:	Assessment on Consumption of Bio fortified Pearl Millet Crop Variety RHB – 234
Year/Season:	Kharif 2024
Problem diagnosis:	Lack of awareness regarding healthy food
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	07
No. of farmers/farm women involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Non- Consumption of Pearl Millet
T2 –Recommended Practice	Consumption of Pearl Millet Crop
T3 –Recommended Practice	Consumption of Bio-fortified Pearl Millet Crop Variety RHB - 234
Source of technology:	ICAR (2017)
Characteristics of technology:	-
Name of Crop/Enterprises:	Pearl Millet
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT : 3

Title of on-farm trial:	Assessment of inclusion of Amylase Rich Food (ARF's) in porridge among weaning infants (0-5 Years)
Year/Season:	Rabi 2024-25
Problem diagnosis:	Lack of awareness regarding healthy food
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	3
No. of farmers/farm women involved	21
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Durum wheat + ARF powder prepared from mung
T2 –Recommended Practice	Consumption of porridge prepared from durum wheat var.
T3 –Recommended Practice	Consumption of porridge prepared from durum wheat variety + inclusion of ARF powder prepared from mung
Source of technology:	TNAU (2016)
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	Crop Production	HYV (JS-2172)	Seed and Seed Treatment	Kharif 2024	4.0	10	Yield (q/ha), Test Wt. (g)
2	Soybean	Crop Production	Demonstration of weedicide Imazathapyr 35 % WG + Imazamox 35 % WG (70% WG) @ 100 gm A.I./ha at 15 to 20 DAS	Weedicide	Kharif 2024	4.0	10	Yield (q/ha), Test Wt. (g)
3	Soybean	Indigenous Technology Knowledge	5 % spray of lantana camera's leaf extract after 20-25 days sowing and repeat 2 -3 times 7 – 8 day interval	Extract leaves of lantana camera	Kharif 2024	5.0	10	Yield (q/ha)
4	Onion	Horticulture (Spice Crop)	Quizalofop ethyl 5% E.C. 1 lit./ha	Weedicide	Kharif 2024	5.0	10	No. of Weeds /sq.m., Yield (q/ha), Bulb wt./plant
5	Onion	Horticulture (Spice Crop)	HYV L-883	Seed	Kharif 2024	5.0	10	Yield (q/ha), Bulb wt./plant
6	Soybean	Pest Management	Chlorantraniliprole 18.5% SC 150 ml/ha against girdle beetle and semi-looper	Insecticide	Kharif 2024	5.0	10	Yield (q/ha), Infected plant/m^2,B:C Ratio
7	Onion	Pest Management	Lambda cyhalothrin 5% EC 250 ml/ha for thrips	Insecticide	Kharif 2024	5.0	10	Yield (q/ha), Infected plant/m^2,B:C Ratio
8	Maize	Nutritional security	Bio fortified Variety maize variety IQMH-203	Seed	Kharif 2024	2.5	10	Per capita consumption and availability of nutrients, BMI
9	Wheat	Crop Production	HYV (HI-1636)	Seed and Seed Treatment	Rabi 2024-25	4.0	10	Yield (q/ha), Test Wt. (g)
10	Chickpea	Crop Production	HYV (RVG-204)	Seed and Seed Treatment	Rabi 2024-25	4.0	10	Yield (q/ha), Test Wt. (g)
11	Nigella	Horticulture (spice)	HYV (A.N. - 20)	Seed and Seed Treatment	Rabi 2024-25	5.0	10	Yield (q/ha), No. of capsule.
12	Onion	Horticulture (spice)	NHRDF Red - 3	Seed and Seed Treatment	Rabi 2024-25	5.0	10	Yield (q/ha), Bulb wt./plant.
13	Mustard	Pest Management	Imidachloprid 17.8% SL 200 ml/ha against Mustard Aphid	Insecticide	Rabi 2024-25	5.0	10	Yield (q/ha), Infected plant/m^2,B:C Ratio
14	Chickpea	Pest Management	Emamectin benzoate 5% SG @ 220 g/ha	Insecticide	Rabi 2024-25	5.0	10	Yield (q/ha), Infected plant/m^2,B:C Ratio
15	Wheat	Nutritional security	Pusa Tejas	Seed	Rabi 2023-24	-	10	Per capita consumption, Nutrient availability, BMI
16	Vegetable Mini Kit	Nutritional security	Nutritional Kitchen Garden	Vegetable Mini Kit	Kharif & Rabi 2024-25	-	10	Production Per capita consumption and availability of

								nutrients
17	Enterprise	Nutritional security	Wheat + Besan + Makki atta (1:1:1) + seasonal green leafy vegetables	Multigrain flour	Rabi 2024-25	-	10	Nutrient availability, BMI

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	-	-
2	Farmers Training	6	-	-
3	Media coverage	12	-	-
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 / Technology Demonstration	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
LPM	Azola culture technology and feeding 200 to 400 gm/ day/ animal along with concentrate for 90 days	10	10		Milk yield (Kg), SNF (%), Fat (%), B:C Ratio		
LPM	Demonstration of probiotic Saccharomyces cervices and liquid feed supplementation Ostov feeding in Buffalo (30 gm yeast culture probiotic + 100 gm liquid feed minral mixture/d/animal) production of volatile fatty acids, reduction of methane production, Decreased ammonia production, stability of the PH, Increased total anaerobic flora	10	10		Milk yield (Kg), SNF (%), Fat (%), B:C Ratio		
LPM	Demonstration of high yielding Barseem variety J.B.S.C-1 for production of green fodder.	10	10		No. of cutting, Yield q/ha, B:C ratio		
Poultry	Improved Varity of Poultry Birds – Kadaknath(reared in backyard / intensive rearing system)	10	50	Bird	Av. Body Wt, Av. Egg production		

					/month (number) and B:C ratio		

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

Other Enterprises

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

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	High Yield Variety	Seed + Seed Treatment	Kharif 2024	20	50	Yield (q/ha)
2	Mustard	Crop Production	High Yield Variety	Seed + Seed Treatment	Rabi 2024-25	30	75	Yield (q/ha)
3	Linseed	Crop Production	High Yield Variety	Seed + Seed Treatment	Rabi 2024-25	30	75	Yield (q/ha)
4	Lentil	Crop Production	High Yield Variety	Seed + Seed Treatment	Rabi 2024-25	30	75	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	4	Sept./Feb.	100
2	Farmers Training	4	June / Oct.	120
3	Media coverage	10	-	Mass
4	Training for extension functionaries	-	-	-

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Integrated Farming									
Water management									
Seed production									
Integrated Crop Management	02	06							**50**
Total									
II Horticulture									
a) Vegetable & fruit Crops	01	03							25
Off-season vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
Total									
b) Fruits									
Management of young plants/orchards									
Total									
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology	01	03							25
Total									
g) Medicinal and Aromatic Plants									
Production and management									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
technology									
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	01	03							25
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management	01	03							**25**
Disease Management									
Feed management									
Production of quality animal products	01	03							**25**
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	**01**	**03**							**25**
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet	**01**	**03**							**25**
Minimization of nutrient loss in processing									
Gender mainstreaming									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	01	03							**25**
Integrated Disease Management									
Bio-control of pests and diseases	01	03							**25**
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	01	03							25
Leadership development									
Group dynamics	01	03							25
Formation and									

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

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	01	03							25
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management	01	03							25
Fodder production									
Production of organic inputs	01	03							25
Total	**03**	**09**							**75**
II Horticulture									

a) Vegetable Crops									
Nursery raising									
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	01	03							25
b) Fruits									
Cultivation of Fruit	01	03							25
Management of young plants/orchards	01	03							25
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	01	03							**25**
Soil and Water Conservation									
Integrated Nutrient Management	01	03							**25**
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management	01	03							**25**
Poultry Management									
Disease Management	01	03							**25**
Feed management	01	03							**25**
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and									

nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing	01	03							**25**
Gender mainstreaming through SHGs									
Storage loss minimization techniques	01	03							**25**
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies	01	03							**25**
Rural Crafts									
Women and child care									
Total	**03**	**09**							**75**
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	01	03							**25**
Integrated Disease Management	01	03							**25**
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides	01	03							**25**
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development	03	09							**75**
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										
June	F/FW	Latest production technology of Kharif crops	3	-	-	-	-	-	-	25
Oct.	F/FW	Latest production technology of Rabi crops	3	-	-	-	-	-	-	25
Horticulture										
March	F/FW	Use of Natural product like ghanjeevamrit and jeevamrit in fruit and vegetable crops	3	-	-	-	-	-	-	25
Dec.	F/FW	Seed Processing in Seed Spices Crops	3	-	-	-	-	-	-	25
Livestock production										
January	F/FW	Management of Live stock during cold weather for better milk production	3	-	-	-	-	-	-	25
February	F/FW	. Vaccination & important disease of poultry - its causes & treatment	3	-	-	-	-	-	-	25
Home Science										
April	FW	Management of Malnutrition in Childrens and women	3	-	-	-	-	-	-	25
June	FW	Importance and cultivation of colored	3	-	-	-	-	-	-	25

		vegetables and fruit in daily diet.								
Plant Protection										
Feb	F/FW	Pest & Disease management through bio-agents & biological pesticides	3	-	-	-	-	-	-	25
July		IDM & IPM of Kharif crops								
Agriculture Extension (Capacity Building and Group Dynamics)										
May	F/FW	Role of central sponsored schemes for agriculture production and important of socio-economic status of farmer	3	-	-	-	-	-	-	25
Oct	F/FW	Principals of climate smart agriculture, best practices and their benefits of farmers.	3	-	-	-	-	-	-	25
Soil Science										
July	F/FW	Production techniques and application methods of bio-fertilizers	3	-	-	-	-	-	-	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										
Feb	F/FW	Natural Farming	3	-	-	-	-	-	-	25
July	F/FW	Importance and use of Millets	3	-	-	-	-	-	-	25
Sep.	F/FW	Post-harvest technology for Kharif crops	3	-	-	-	-	-	-	25
Horticulture										
Feb.	F/FW	Hi-Tech Production Technology of cucumber or sweet pepers in polyhouse	3	-	-	-	-	-	-	25
May	F/FW	Suitable time and methods for ber plant in Ratlam district	3	-	-	-	-	-	-	25
June	F/FW	Quality improvement of citrus and mandarin in Ratlam district.	3	-	-	-	-	-	-	25
Livestock production										
March	F/FW	Metabolic desease of large animal	3	-	-	-	-	-	-	25
Oct	F/FW	Management of small ruminant.	3	-	-	-	-	-	-	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	
Nov	F/FW	Green fodder production through out / round the year.	3	-	-	-	-	-	-	25
Home Science										
May	F/FW	Low cost technique for minimization storage losses	3	-	-	-	-	-	-	25
Aug	F/FW	. Importance of women friendly time and energy saving tools and equipment in agriculture work.	3	-	-	-	-	-	-	25
Oct	F/FW	Importance of nutria cereal and minimization of nutrient losses in food for nutritional security	3	-	-	-	-	-	-	25
Plant Protection										
Jan	F/FW	IDM & IPM of Rabi crops	3	-	-	-	-	-	-	25
May	F/FW	Integrated disease and pest management through cultural practices.	3							25
June	F/FW	Natural Farming	3							25
Agriculture Extension (Capacity Building and Group Dynamics)										
April	F/FW	The importance of keeping farm records in agriculture production.	3	-	-	-	-	-	-	25
June	F/FW	Important role of natural farming in environment and food security.	3	-	-	-	-	-	-	25
Dec	F/FW	Role of farming apps / websites and its benefits for farming community	3	-	-	-	-	-	-	25
Soil Science										
April	F/FW	Soil testing procedure and recommend dose of fertilizer for various crops	3	-	-	-	-	-	-	25
Oct	F/FW	How to manage and maintain soil fertility (INM)	3	-	-	-	-	-	-	25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
September	RY	Integrated farming system for higher sustainability and productivity	5	-	-	-	-	-	-	15
Horticulture										
October	RY	Production Technology of Bulb crops	5	-	-	-	-	-	-	15
Livestock production										
September	RY	Feeding Management in Animal.	5	-	-	-	-	-	-	15
Home Science										
October	RY	Value addition and preservation techniques of fruits & vegetables	5	-	-	-	-	-	-	15
Plant Protection										
December	RY	Oyster Mushroom Cultivation – Production, Value addition and marketing	5	-	-	-	-	-	-	15
Agriculture Extension (Capacity Building and Group Dynamics)										
June	RY	Entrepreneurship development for farmers and rural youth in Rural development	5	-	-	-	-	-	-	15
Soil Science										
November	RY	Production technology of different manure and compost.	5	-	-	-	-	-	-	**15**

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										
September	EF	Production technology of *Rabi* crops	2	-	-	-	-	-	-	30
Horticulture										
August	EF	Processing Techniques in Garlic, Onion and Opium	2	-	-	-	-	-	-	30
Livestock production										
July	EF	Major reproductive disorder of female animal	2	-	-	-	-	-	-	**30**
Home Science										
August	EF	Low cost and nutrient rich diet designing for dietary diversity of farm families	2	-	-	-	-	-	-	30
Plant Protection										
May - June	EF	Disease and Pest Management in Kharif and Rabi crops.	2	-	-	-	-	-	-	**30**
Agriculture Extension (Capacity Building and Group Dynamics)										
August	EF	Awareness regarding Mobile Apps and Website related with agriculture.	2	-	-	-	-	-	-	**30**
Soil Science										
-	-	-	-	-	-	-	-	-	-	**-**

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	*Duration*	Client PF/ RY/ EF	No. of courses	No. of participants							Spo nsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	-	-	-	-	-	-	-	-	648
Kisan Mela	1	-	-	-	-	-	-	-	-	1020
Kisan Ghosthi	10	-	-	-	-	-	-	-	-	440
Exhibition	1	-	-	-	-	-	-	-	-	520
Film Show	20	-	-	-	-	-	-	-	-	550
Method Demonstrations	-	-	-	-	-	-	-	-	-	-
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	4	-	-	-	-	-	-	-	-	220
Lectures delivered as resource persons	80	-	-	-	-	-	-	-	-	2480
Newspaper coverage	25	-	-	-	-	-	-	-	-	Mass
Radio talks	6	-	-	-	-	-	-	-	-	Mass
TV talks	6	-	-	-	-	-	-	-	-	Mass
Popular articles	18	-	-	-	-	-	-	-	-	Mass
Extension Literature	25	-	-	-	-	-	-	-	-	1275
Advisory Services	49	-	-	-	-	-	-	-	-	Mass
Scientific visit to farmers field	60	-	-	-	-	-	-	-	-	360
Farmers visit to KVK	-	-	-	-	-	-	-	-	-	850
Diagnostic visits	40	-	-	-	-	-	-	-	-	450
Exposure visits	1	-	-	-	-	-	-	-	-	51
Ex-trainees Sammelan	2	-	-	-	-	-	-	-	-	64
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	4	-	-	-	-	-	-	-	-	162
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	6	-	-	-	-	-	-	-	-	206
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	2	-	-	-	-	-	-	-	-	66
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	6	-	-	-	-	-	-	-	-	456
Others (Live Telecast / Awareness Programme)	10	-	-	-	-	-	-	-	-	544
Total	388	-	-	-	-	-	-	-	-	10362

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
Pulses	Chickpea	RVG – 202	20
Pulses	Chickpea	RVG - 204	20
Pulses	Lentil	IPL-316	10

Oilseed	Mustard	RH - 725	5
Oilseed	Linseed	Pratap – 2	5
Oilseed	Tarameera	RTM – 314	15
Oilseed	Mustard	DRMR-1165-40	5
Oilseed	Soybean	RVS 2001-4	45
Oilseed	Soybean	RVSM-1135	45

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
Spice	Onion	AFLR, Bhima Super, Bhima Subhra	1500
Vegetable	Tomato	Hybrid	1000
Spice	Chilli	Hybrid	1000
Fruit	Mango grafted	Langda, Dussheri, Amrapali, Kesar	100
Fruit	Mango Desi	Desi	1000
Fruit	Lemon	Kagzi lemon	500
Fruit	Guava	Allhabadi Safeda	500
Fruit	Karonda	Desi	500
Fruit	Jackfruit	Desi	1000
Fruit	Aonla	Desi	100
Forestry	Ashok	Desi	750
Forestry	Tikoma	Desi	500
Forestry	Cassia sama	Desi	100
Forestry	Sesum	Desi	500
Forestry	Neem	Desi	500
Forestry	Bamboo	Desi	200
Forestry	Karanj	Desi	500
Forestry	Gulmohar	Desi	200
Ornamental	Duranta golden	Desi	1000
Ornamental	Duranta brown	Desi	1000
Ornamental	Rose cutting	Desi	50
Ornamental	Others - Meetha neem, Bouganvilia, Mogra, Paras peepple, Ornamental cutting	Desi	400

Bio-products

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

3				
BIOFERTILIZERS				
1	Vermicompost	*Eisenia fetida*	-	2000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			

LIVESTOCK

Sl. No.	**Type**	**Breed**	**Quantity**	
			Nos	**Kg**
Cattle				
SHEEP AND GOAT	Meat Purpose	Sirohi	16	
POULTRY	Egg & Meat purpose	Kadaknath & Sonali	92	
FISHERIES				
Others (Specify)				

Literature to be Developed/Published
KVK News Letter

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

Details of Electronic Media to be Produced

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

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	• Identified need for during scientist visit to farmers field. • During the discussion in Kisan Gosthi. • Suggestion received during SAC meeting from linkage department, progressive farmers. • Ex. Trainee Sammelan
2	Rural Youth	• Identified need for during scientist visit to farmers field. • During the discussion in Kisan Gosthi.

		• Suggestion received during SAC meeting from linkage department, progressive farmers.
3	In-service personnel	Suggestion received during SAC meeting from linkage department, progressive farmers.
4	methodology for identifying OFTs/FLDs	• Identified need for during scientist visit to farmers field (Field level observation). • New variety / Technology. • Poor yield at farmers level. • During the discussion in Kisan Gosthi. • Suggestion received during SAC meeting from linkage department, progressive farmers. • Ex. Trainee Sammelan. • Base Line Survey. • According to Agro-ecological situation. • Suggestion received during scientist – farmers interface. • Valuable Suggestion received from ICAR-ATARI, Zone – IX, Jabalpur
5	Matrix ranking	• Rank I - methodology for identifying OFTs/FLDs • Rank II - Identification of courses for farmers/farm women • Rank III - Rural Youth • Rank IV - In-service personnel

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	Hatnara	Ratlam	33
2	Simlawada	Ratlam	60
3	Kalaliya	Jaora	13
4	Mundli	Jaora	5
5	Dhodhar	Jaora	9
6	Pipliya jodha	Jaora	15
7	Badayala Mata Ji	Piploda	21
8	Sukheda	Piploda	14
9	Semaliya	Piploda	4
10	Ummedpura	Piploda	30
11	Vikramgarh	Alot	64
12	Mandawal	Alot	50
13	Akyakhurd	Alot	50
14	Sarwan	Sailana	48

15	Raoti	Bajna	70

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 : 2008

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Hot Air Oven	01	Not Working
2	Steel Box for Sampling	100	
3	Soil Testing Mini Lab	2+1	Two not working
4	Lab Instrument like Nitrogen Analyzer, Spectrophotometer, Flame photometer	03	Not Working
5	Shaker	02	
6	Heating Plate	01	
7	Weighing Balance	01	
8	All Glass Ware like Flasks, shaker (1 N.W.), Becker stand (2), volume matrix flask (6), flask stand (1), tube stand (1), Funnel (20)		

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	60	
Water Samples	0	0	0	
Total	500	500	60	

LINKAGES
Functional linkage with different organizations

Name of organization	Nature of linkage
Farmers Welfare and Agriculture Department, Ratlam (M.P.)	Farmer training, in-service training and crop inspection will be done in collaboration with the Agriculture Department.
Department of Horticulture, Ratlam (M.P.)	Farmer training, in-service training and crop inspection will be done in collaboration with the Horticulture Department.
Farmers Training Centre, Jaora, Ratlam (M.P.)	Farmers training will be given in collaboration with Farmers Training Center, Jaora.
Department of Veterinary Service, Ratlam	A.I. Camp and A.H. Camps will be organized.
M.P Sate Seed Corporation, Jaora, Ratlam	Seed production programs will be taken in collaboration with the Seed Corporation.

K.N.K. College of Horticulture, Mandsaur	Technical guidance and cooperation will be taken from the college.
Jan Shikshan Sansthan, Ratlam (M.P.)	Cooperation in training will be taken from this institute.
District Rural Development Authority, Ratlam (M.P.)	Help will be provided by forming Self Help Groups (SHGs).
Ujjain Dugdh Sangh Maryadit, Ujjain (M.P.)	Training programs will be organized Animal Health Guards in A.I.E. and technical guidance will be obtained.
IFFCO, Ratlam (M.P.)	Farmer training.
KRIBHCO, Ratlam (M.P.)	Farmer training.
Lead Bank - Central Bank of India, Ratlam	Farmer training.
National Fertilizer Ltd., Ratlam (M.P.)	Farmer training.
Department of Women and Child Development, Ratlam (M.P.)	Training of anganwadi workers
ICAR – IISR, Indore	Technical advice and discussions will be held with scientists. Seeds of latest species will be taken.
IARI Regional Station, Indore	Technical advice and discussions will be held with scientists. Seeds of latest species will be taken.

Details of linkage with ATMA / NFSM

a**) Is ATMA implemented in your district** Yes

Name of Programme	**Nature of linkage**
Convergence	Jointly Exposure Visit Organized

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 – NICRA Project

Month	**Activity details**	**Targeted Beneficiaries / Area /Coverage**
January	Training (P.P.), Field Day (Chickpea)	50
February	Training (PHM), Chicks distribution, Field Day (Wheat)	80
March	Training (PHM), Goatry Unit distribution, Animal Health Camp, Soil Testing	150
April	Training (NRM), Crop Residue incorporation through plough and de-silting of old dug well	100

May	Training (NRM), Crop Residue incorporation through plough and de-silting of old dug well	100
June	Training (NRM), Training (LPM), Bori bandhan	45
July	Training (P.P.), Kharif Seed distribution, Green manure Azola distribution, Napier grass distribution	45
August	Training (P.P., N.R.M. & L.P.M.), Animal Health Camp	120
September	Training (P.H.M.), Field Day (Soybean)	50
October	Training, Rabi seed distribution (Wheat, Chickpea, Linseed, Mustard)	75
November	Training (L.P.M.), Training on IPM & IDM	45
December	Training (L.P.M) and Other Extension Activities	50

Planning for Crop Cafeteria

Total Area of Crop cafeteria : 1539 Sq m

Crop	**Season**	**Variety**	**Particulars /details**	**Area (**Sq m)
Soybean	Kharif	JS – 2172	Maturity days 95-100 days, Avg. yield 18 – 22 q/ha.	5.0 X 5.4
Soybean	Kharif	NRC –130	Erect and determinate with medium plant height (47 cm),, dark green leaves, purple flower, glabrous, light yellow & round and bold seeds with yellow hilum with one brown spot on micropile.	5.0 X 5.4
Soybean	Kharif	NRC –142	The country's first variety of Kuni Tze Tripsy Niinhi Bitter and Laipo oxyginage Acid-2 free. Complicated growth, brown flowers, purple flowers, black and white. Resistant to yellow mosaic virus while moderate resistance to rhizoctonia, aerial blight and target leaf spot and resistance to various insect pests.	5.0 X 5.4
Soybean	Kharif	RVSM-1135	Moderately resistant to pod blight, yellow mosaic virus and target leaf spot but not to neck rot, Rhizoctonia or aerial blight and myrothecium leaf spot.	5.0 X 5.4
Black Gram	Kharif	IPU-13-01	Resistant to YMV	5.0 X 5.4
Black Gram	Kharif	IPU-10-26	Resistant to YMV	5.0 X 5.4
Black Gram	Kharif	IPU-11-02	Resistant to YMV	5.0 X 5.4
Green Gram	Kharif	IPM-205-7	Early maturing (50-55 Days), HYV, resistant to YMV	5.0 X 5.4
Green Gram	Kharif	IPM- 2-14	Highly resistant to YMV and powdery mildew	5.0 X 5.4
Green Gram	Kharif	IPM-410-3	Highly resistant to YMV and powdery mildew	5.0 X 5.4
Pearlmillet	Kharif	GHB- 538	Maturity days 75-78 days, Resistant to Downey mildew disease, Average yield (4439 kg ha-1)	5.0 X 5.4

Pearlmillet	Kharif	GHB- 732	Maturity days 80-85 days, Resistant to Downey mildew disease, Average yield (5037 kg ha-1)	5.0 X 5.4
Pearlmillet	Kharif	GHB- 744	Maturity days 78-80 days, Resistant to Downey, Average yield (2857 kg ha-1) mildew disease	5.0 X 5.4
Sorghum	Kharif	RVJ- 1862	Dual purpose, Maturity days 111 days (Grain Yield 40q/ha)	5.0 X 5.4
Wheat	Rabi	GW - 513	HYV Irrigated & timely sown	5.0 X 5.4
Wheat	Rabi	H.I.-1634	HYV Irrigated & timely sown	5.0 X 5.4
Wheat	Rabi	H.I. – 1636	HYV Irrigated & timely sown	5.0 X 5.4
Wheat	Rabi	CG - 1036	Nutrient rich, best for chapati	5.0 X 5.4
Gram	Rabi	PKV - 4	Extra bold seeded, colour white cream wilt resistant	5.0 X 5.4
Gram	Rabi	RVKG-201	Early maturing Desi type, moderately resistant to wilt.	5.0 X 5.4
Gram	Rabi	RVG-202	Suitable for late sown condition in paddy/cotton /soyabean-chickpea cropping system	5.0 X 5.4
Gram	Rabi	RVG-204	Long plant, bold seeded, Resistant to wilt and tolerance to pod borer, suitable for mechanical harvesting	5.0 X 5.4
Mustard	Rabi	RH- 725	Heat tolerant at seedling stage and moisture stress tolerant	5.0 X 5.4
Mustard	Rabi	RH - 749	Moisture stress tolerant	5.0 X 5.4
Mustard	Rabi	DRMR- 150-35	Early maturity, tolerant to Powder mildew & A. blight	5.0 X 5.4
Mustard	Rabi	DRMR-1165-40	Heat tolerant at seedling stage and moisture stress tolerant	5.0 X 5.4
Linseed	Rabi	JL-95	High Omega-3 content (51.87) moderately resistant to Alternaria blight, powdery mildew and bud fly	5.0 X 5.4
Linseed	Rabi	RLC - 148	Suitable for rainfed situation moderately resistant to bud fly, moderately susceptible to wilt and powdery mildew	5.0 X 5.4
Linseed	Rabi	Kota Barani Alsi -4	Early maturity, moderately resistant to Alternaria blight and powdery mildew	5.0 X 5.4
Linseed	Rabi	Partap Alsi - 2	Early maturity, moderately resistant to Alternaria blight, powdery mildew, wilt and bud fly	5.0 X 5.4
Planning for Horticulture Crop Cafeteria 2024				
Turmeric	Kharif	Salem	Big Size Rhizome & 4 cm long oil Content 4.75% Maturity 180 days	25
Lady Finger	Kharif	VRO-22	Fruits are 8 – 10 cm long resistant to YVMV & OLCV Yield 125-140 q/h	25
Onion	Kharif	L-883	Dark red, round shape after transplanting maturity time 90 days yield 300-325 q/h	20
Onion	Kharif	ADR	Dark red after transplanting maturity time 110 days	
Tomato	Kharif	Arka Rakshak	Dark red	20
Tomato	Kharif	Arka Samrat	Dark red	20
Garlic	Rabi	Riyawan Silwar	Bulb big size & maturity Period 150 days	20
Garlic	Rabi	G-323	White color, maturity time 125 days	

Garlic	Rabi	G-404	Bulb big size & maturity Period 150 days	
Onion	Rabi	NHRDF Red-3, ALR	Bulb big size & maturity Period 120 days yield 350 q/h	20
Potato	Rabi	Kufri Chipsona	Maturity medium (92-110 days) resistant to led blight, yield 350 q/h	20
Fenugreek	Rabi	Afg-03, Afg-05	maturity Period 120-130 days, yield 15-20 q/h	20
Coriander	Rabi	ACr-01, ACr-02	maturity Period 135 days, yield 18-20 q/h	20

Details of Demonstration Unit at KVK

Demonstration Unit	**Particulars /details**	**Area (Sq m)**	**Output /Production**
Crop Production	Rabi – Wheat Kharif - Soybean	2400	Wheat : 50 – 55 q/ha Soybean : 12-16 q/ha
Large Nursery	Planting Material and Seedlings	200	Capacity 5000 (Planting Material)
Poultry Unit	Kadaknath / Sonali	20 x 15 feet	Rs 30000-35000
Goatry	Sirohi	50 x 50 feet	Rs. 40000-50000
Vermi compost	Vermi compost	30 x 15 feet	Rs. 50000 - 60000
Fodder Unit	Lampa Grass, Gunia, Napier, Rijika, Ganna, Berseem and Khas-Khas	0.619 acre	-
Azola	Azola	3 bed (10x10x10x3x3x3)	Rs. 2000 - 3000
Mushroom	Oyster Mushroom	10x8 feet	5 kg/month
Kitchen garden	Round the year vegetable production	100 sq m	Vegetable production

ANNUAL ACTION PLAN 2024

KVK Satna

Year of sanction:- 1992

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.S.Negi		9425887138	rsnegi007@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.	Senior Scientist & Head	Dr. R.S. Negi	Sr. Scientist & Head	Horticulture		01.10.2011	01.10.2011	9425887138	rsnegi007@rediffmail.com	
2.	SMS	Dr. R.P.Sharma	SMS	Animal Science		13.05.1991	13.05.1991	9425833181	ramprakashanju@radiffmail.com	
3.	SMS	Dr. Akhilesh Jagre	SMS	Plant Protection		08.02.2019	08.02.2019	9425942368	akhileshjagre123@gmail.com	
4.	SMS	Dr. Ajay Chourasiya	SMS	Agronomy		15.02.2019	15.02.2019	9407018060	ajaychourasiya09@gmail.com	
5.	SMS	Sh. Hemraj Diwevdi	SMS	Home Science		15.10.2020	15.10.2020	8770534764	hemraj8691@gmail.com	

6.	Programme Assistant	Sh. Ashok Sharma	PA	Lab. Techni.		08.10.2016	08.10.2016	9425735157	Simpysharma01@gmail.com	
7.	Computer Programmer/ Programme Assistant	Er. Harendra Kumar	PA	Computer Science		16.10.2020	16.10.2020	9807434457	harendra1692@gmail.com	
8.	Farm Manager	Sh. Satyam Chauriha	PA	Farm Manager		29.03.2022	29.03.2022	9713040704	satyam15992@gmail.com	
9.	Assistant	Sh.R.P. Pandey	Accountant			01.06.2014	01.06.2014	9407288631	-	
10.	Jr. Stenographer / Comp. Operator	Sh. A.K. Singh	Stenographe			01.12.1993	01.12.1993	9425887328	-	
11.	Driver	-	-	-		-	-	-	-	-
12.	Driver	-	-	-		-	-	-	-	-
13.	Supporting staff	Smt. Rita Singh	Jr. Clerk	-		07.09.1996	07.09.1996	9425887136		
14.	Supporting staff	Sh.Virendra .Singh	Attendant	Agronomy		01.05.1994	01.05.1994	9755086164		
15.	Supporting staff	Sh. Kamlesh. Pathak	Attendant	Animal Science		01.04.1995	01.04.1995			

16.	Supporting staff	Sh. R. L. Baheliya	Cook			01.04.1996	01.04.1996			
17.	Supporting staff	Sh.B .G. Joshi	Attendant	Horticulture		01.12.1993	01.12.1993			

1.3 Total land with KVK (in ha):……..

S. No.	Item	Area (ha)
1	Under Buildings	1.80
2	Under Demonstration Units	0.43
3	Under Crops	12.6
4	Orchard/Agro-forestry	1.3
5	Others (specify)	
Total		

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	1998	500				
2	Farmers Hostel	ICAR	2003	300				
3	Staff Quarters (6)	ICAR	2005	440				
4	Demonstration Units (2)	ICAR						
5	Fencing					----		
6	Rain Water harvesting system	ICAR	2007		10,00000.00			
7	Threshing floor	Revolving fund						
8	Farm godown	Revolving fund						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2016	750000	4371.8	Running
Motor Cycle	2008	46100	11923 (Meter Change)	Running
Bolero(Jeep)	2018	900000/-	124696	Running
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer System with Printer	2021	86440	Working
Computer-2	2022	57000	Working
Laptop	2022	59000	Working
TV-1	2017	55000	Working
Camera	2022	35465	Working
TV-2	2022	100000	Working

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

Sl. No.	Tentative Date
1	
2	

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	This AES comes under Majhgawan block and some part of Unchehra and Nagod block and accounts for 21.34 % of the available agricultural lands, with undulating topography. The soils are shallow in depth, Coarse, Red Soils, The major farming system followed by farmers in this AES is rain fed agriculture and Livestock rearing. The major crops grown in this AES are Sorghum, pearlmellet, Sesame in Kharif ; Mustard and linseed in Rabi
2	AES – 2	This AES comes under Sohawal, Unchera and Rampur baghelan block of the district & accounts for 42.43 % of the available agricultural lands, The soils are medium in depth,Mixed Red and Black in colour. The major farming system followed by farmers in this AES is Agriculture + horticulture + dairying. The major crops grown in this AES are Rice and Blackgram in Kharif; Wheat and Chickpea
3	AES – 3	This AES comes under Maihar, Amarpatan and Ramnagar blocks of the district & accounts for 36.23 % of the available agricultural lands, The soils are deep (>100 cm in depth), Black soils. The major farming system followed by farmers in this AES is Agriculture + horticulture + dairying. The major crops grown in this AES are Rice and Soybean in Kharif; Wheat and lentil in Rabi. Marginal and Small land holding farmers mostly grow vegetable crops and rear 2-6 livestocks.

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Lands are sloppy and undulating topography, sils are shallow in depth,poor water holding capacity, Soil pH ranges from 7.0-7.5 Organic carbon 0.20- 45%, Available nutrients status shows low nitrogen, very low to low phosphorus and medium potassium. Boron and zinc micronutrients deficient soils.
2	AES – 2	Medium water holding capacity and optimum drainage, Soil pH ranges from 7.2 to 7.8 organic

		carbon 0.40 – 0.60 %, available nutrients status shows low to medium nitrogen, low to medium phosphorus and medium to high potassium, boron and zinc micronutrients deficient soils
3	AES – 3	High water holding capacity, poor drainage capacity, Soil pH ranges from 7.1 to 8.2, organic carbon 0.45-0.65%, available nutrients status shows low to medium nitrogen, low phosphorus and very high potassium and also high in calcium and magnesium, boron and zinc micronutrients deficient soils

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

Strength	Weakness	Opportunities	Threats
• Less use of chemical fertilizers • Good production of Nutri cereals due suitable agro ecological situation. • Sloppy lands provide good potential for growing cash crop like vegetables during rainy season. • Easily Availability of man power • Abundance of available minor forest produce	• Soil erosion due to sloppy lands • Soils are shallow and poor in fertility • Reluctance of farmers towards adoption of modern agricultural technologies. • Insufficient government credit institution and its linkage with farming community • Lack of organized market channel	• Scope of promotion of organic and natural farming • Promotion of Horticultural crops especially minor fruits like , Aonla, Bael, ber and chirojee • Favorable conditions for cultivation of medicinal plants. • Opportunity to promote micro irrigation technology during the drought and dry spell. • Higher production potential for growing rainy season vegetables(off season tomatoes and chillies) • Good scope for establishing processing units for value addition of minor forest produce • Good scope for goat rearing due to forest area	• Agriculture is highly vulnerable to climate change • Heavy and long spell of rains cause soil erosion • Frost during winther month cause crop loss particularly to Pigeon pea and mustard • Migration of farm families in to the urban areas. • Crop damage by wild animal • Increasing trend of land degradation due to dependence of people of forests

AES-2 (name)

Strength	Weakness	Opportunities	Threats
• Soil and climatic conditions are favourable for raising varied crops. • wide range of crops cereals ,pulses and oilseeds are cultivated • A well establish warehousing system due to closure proximity to district head quarter.	• Low erratic and uncertain rainfall and its skewed distribution affect the crop production. • Shortage of green fodder • Lack of knowledge among the dairy farmers on scientific rearing of livestock • Inadequate grazing facilities	• Ample scope exist for opportunities for agro processing units • Scope for small agri business entrepreneurs in custom hiring services. due to non availability of labour	• Over stress on groundwater and faster depletion of ground water • Deterioration of soil health • Over use of chemical fertilizers and depletion of organic matter • Over dependence of farmers on hybrid seeds, highly vunlenerable to climate change.

			• Declining trend of net sown area due to urbanization

AES-3 (name)

Strength	Weakness	Opportunities	Threats
• The area has very good potential of high valued vegetables and spices.	• Low level of resource management due to low farm power availability • High cost of cultivating high valued crops • High perishable nature of horticultural crops • Lack of adequate cold storage facilities for perishable vegetables lead to heavy post harvest losses. • Large number of marginal and small farmers	• Crop diversification from low return field crops to high valued horticultural crops • Good Opportunity for promoting horticultural crops • Excellent opportunity for the agro –m processing entrepreneurs • Good scope for strengthening the existing marketing channel. • Strengthening storage system at farm level especially pack house	• Low level of farm mechanization • High cost of high tech cultivation of horticultural crops and low financial capabilities of majority of farmers. • In adequate availability of post harvest facilities • Highly fluctuating prices of horticultural commodities

Add AES if needed

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	7, 42,432 ha.
Forest	203659
Waste Land	100127 ha
Other than cultivated area	76413 ha
Cultivable waste and alkaline land	23714 ha
Pastures	------
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	4,75,908 ha
Area Sown	4,75,908 ha
Kharif	143643 ha
Rabi	332263 ha
Zaid	
Cropping Intensity	125%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5.872

2	Well	38.075
3	Tube well	72.111
4	Ponds	3.66
5	Others	19.104

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Coarse Red Soils	Poor water holding capacity, Soil pH ranges from 7.0-7.5 Organic carbon 0.20- 45%, Available nutrients status shows low nitrogen, very low to low phosphorus and medium potassium. Boron and zinc micronutrients deficient soils.	21.34
2	Mixed Red and Black soils	Medium water holding capacity and optimum drainage Soil pH ranges from 7.2 to 7.8 organic carbon 0.40 – 0.60 %, available nutrients status shows low to medium nitrogen, low to medium phosphorus and medium to high potassium, boron and zinc micronutrients deficient soils	42.43
3	Black soils	High water holding capacity, poor drainage capacity, Soil pH ranges from 7.1 to 8.2, organic carbon 0.45-0.65%, available nutrients status shows low to medium nitrogen, low phosphorus and very high potassium and also high in calcium and magnesium, boron and zinc micronutrients deficient soils	36.23
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	226.20	1173.79	44.76
2	Pigonpea	8.70	6.02	6.9
3	Blackgram	50.20	46.25	9.21
4	Green Gram	2.5	1.53	6.1
5	Soyabean	2.8	2.05	7.34
6	Sesame	11.90	8.9	7.5
7	Wheat	319.36	1373.26	43.0
8	Barley	1.73	5.0	29.0
9	Chickpea	21.49	39.98	18.6
10	Lentil	6.03	7.84	13.0
11	Mustered	13.86	16.64	12.0

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

Month /Year	Rainfall (mm)	Temperature (^{0}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			
Crossbred/ Indigenous	42874	…… MT.	…… kg
Buffalo	19689	……. MT.	……. Kg
Sheep			
Crossbred/ Indigenous	1236	…… MT wool	……. Kg
Goats	19211	……. MT	……. Kg
Pigs *Crossbred/ Indigenous*	2167	---	---
Rabbits	50		
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		Majhgawan				
2		Sohawal				
3		Rampur Baghelan				
4		Nagod				
5		Uchehra				

Priority / Thrust areas

S. No.	**Particulars**
1.	Enhancing the productivity and profitability of farming
2.	Water Conservation and Management
3.	Seed replacement- use of high yielding varieties tolerant to biotic and abiotic factors

4.	Promotion of Integrated farming system
5.	Crop Diversification
6.	Frost and Drought management
7.	Promotion of Horticultural crops
8.	Utilization of Kharif and Rabi fallow lands
9.	Livestock up gradation and Management
10.	Employment generation for rural youths through agri. enterprises
11.	Strengthening of marketing network
12.	**Crop production**
13.	Seed replacement- use of high yielding tolerant to biotic and abiotic factors
14.	Seed treatment
15.	Sowing technique
16.	Direct seeding in paddy
17.	Alternate cropping system
18.	Promotion of Integrated farming system
19.	Seed production through group approach
20.	Water Management in wheat
21.	Frost and Drought management
22.	Rain water harvesting for recycling and ground water recharge
23.	In-situ moisture conservation through better agronomic practices
24.	Weed Management in Kharif crops (Rice, Blackgram, Redgram and Soybean)
25.	Nutrient management in Kharif crops (Rice, soybean , sesame, mustard, blackgram, and redgram)
26.	Nutrient management in Rabi crops (Wheat, mustard, lentil and gram
27.	Drudgery reduction - Use of improved agriculture implements and tools
28.	Wilt and Pod borer management in gram and redgram
29.	Safe seed and grain storage
30.	Diversification of crops
31.	**Horticulture**
32.	Promotion of Horticultural crops
33.	Improved varieties of vegetables and spices
34.	Nursery Management in vegetables and fruit plants
35.	Layout and planting technique in horticultural crops
36.	Nutrients Management in onion

37.	Wasteland Development through fruit culture
38.	Disease and insect pest management in onion
39.	Disease and insect pest management in cucurbits
40.	Disease and insect pest management in tomato & chillies
41.	Management of early shoot and fruit borer in tomato and brinjal
42.	Protective cultivation
43.	Water saving methods- use of sprinkler and drip irrigation
44.	**Livestock**
45.	Livestock up gradation
46.	Improvement of fat and milk production in cows
47.	Introduction of new breeds in goat and poultry
48.	Management of disease in cows and buffaloes
49.	Control measures for ecto and endo parasites in cattle

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

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

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

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	Climate change (Early, terminal drought, dry spell, heat stress)		Crop planning (Selection of crop varieties based on LGP), Drought & heat tolerant varieties, short duration crop varieties, DSR, R&F, BBF and Raised bed sowing and intercropping						
2	Dominance of cereal based (rice–wheat) cropping system (39.56%)		Diversification from cereal based to pulses, oilseeds, horticultural crop based cropping system (Rice- chickpea, Rice- mustard, Blackgram-wheat, Blackgram-Mustard)						
3	57.9 % of farmers are marginal holds 0.5 to 1.0 ha land		Integrated farming system model for marginal, small and medium farmers under rain fed and irrigated conditions, promoting high valued cash crops(						

			low volume high valued crops)						
4	Rain fed Farming (59.32%)		Promotion of nutri cereals (Sorghum, Pearl millet, Kodo millet, finger millet, foxtail millet, Barnyard millet) and crops maturing with in 35- 85 days (Radish, Spinach, Amaranthus, Leafy Coriander, Greengram, Blackgram, Niger, Sesame, Sweet corn, Cowpea						
	Poor and shallow soils (29.6%)		Promotion of nutri cereals and crops maturing with in 75- 85 days						
	25.29 % area kharif fallow due to unreliable & poorly distributed rains		Rain water harvesting for ground water recharge, Early maturing crops/varieties, Low water requiring crops varieties tolerant biotic factors, Intercropping – Cereals, Pulses, Oilseeds						
	Over stress on ground water (75.24 % irrigation is through Wells and Tube wells)		Deep summer ploughing, Use of Low water requiring crops varieties, Moisture conservation and water saving						

			Technologies, Ridge and furrow sowing of kharif pulses and oilseeds, Dry seeding/ Zero tillage sowing technique						
	Increasing Production cost		Promotion of natural farming practices, Demonstration and popularization of Bio composting techniques, microbial formulations and bio-pesticides, Soil test based Application of plant nutrients, Use of trap crop in high value crop						
	Low productivity and Income from Livestock		Breed Up gradation, Increase in artificial insemination, Better feed management - Mineral mixture supplementation of feed, Azolla, Green fodder, Plantation of fodder trees on Farm bunds, Improved Shelter for livestock, Prophylaxis of livestock, Disease Management						
	Low Income & Poor price		Formation of FPOs, Value						

	realization by the farmers		addition of farm produce, market linkage						

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)

OFT-1 Agronomy

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of improved varieties of Maize suitable for kharif fallow lands.	
Problem diagnosed	About 25.64 % area of rain fed land in Satna district remains fallow due to erratic and deficit rainfall and as such farmers do not grow any crop in kharif. At the same time area under Maize in Satna district is very less (441 ha) and productivity is also low due to cultivation of low yielding local varieties.	
Farmers' Practices	Kharif Fallow lands	
Details of technologies selected for assessment	T_1	JM 216- Av. yield 45-50 q/ha, suitable for rain fed condition, resistance against MLB, TLB
	T_2	JM 218: Av. yield 50.5 q/ha, duration 94 days, suitable for rain fed condition in kharif tolerant to stem and root lodging and water logging conditions, highly responsive to fertilizers, tolerant to H. turcicum and H.maydis leaf blight, tolerant to stem borer.
Source of technology	Jawahar Lal Nehru Krishi Vishwa Vidyalaya, Jabalpur (2020)	
Plot size	0.4	
No. of farmers	10	
Total cost	8000	
Critical input	Seeds	

Performance indicators: (i) Growth and Yield attributes (ii) Technical- **yield (q/ ha)** (iii) Economic (iv) Social – **Employment generation**	No. of cobs/plant, No. of Seeds/Cob, Seed Index(g), Yield(kg/ha), Cost of cultivation (Rs/ha), Gross Monetary return (Rs/ha), Net Monetary return (Rs/ha)

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of improved varieties of Maize suitable for kharif fallow lands.
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	About 25.64 % area of rain fed land in Satna district remains fallow due to erratic and deficit rainfall and as such farmers do not grow any crop in kharif. At the same time area under Maize in Satna district is very less (441 ha) and productivity is also low due to cultivation of low yielding local varieties.
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-	Kharif Fallow lands
T2 –Recommended Practice-	JM 216- Av. yield 45-50 q/ha, suitable for rain fed condition, resistance against MLB, TLB
T3- Recommended Practice-	JM 218: Av. yield 50.5 q/ha, duration 94 days, suitable for rain fed condition in kharif tolerant to stem and root lodging and water logging conditions, highly responsive to fertilizers, tolerant to H. turcicum and H.maydis leaf blight, tolerant to stem borer.
Date of sowing:	
Date of harvesting:	
Source of technology:	Jawahar Lal Nehru Krishi Vishwa Vidyalaya, Jabalpur (2020)
Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2 Agronomy

Crop / Enterprise	Rice
Title of on farm trial	Assessment of Natural Farming practices on growth and yield contributing attributes in Rice.
Problem diagnosed	Indiscriminate use of chemical fertilizers has brought threat to soil health in respect of physical, chemical and biological

	properties of soil.	
Farmers' Practices	Seed treatment with Carboxin+ thiram @ 2 g/kg seed, Application of NPK (48:24:16) kg/acre, Application of Bysperback sodium @ 80 gm/acre) PoE for weed control and application of Thiamethoxam @ 100 g/acre for control of gandhi bug	
Details of technologies selected for assessment	T_1	Seed treatment with Beejamrit @ 20 ml/kg seed, Soil application of Ghan Jeevamrit @ 200 kg /acre + Four foliar application of liquid Jeevamrit @ 85 litre /acre at 21 days interval each spray), Straw mulching for weed management and moisture conservation and two foliar application of Neemastra @ 12 litre /acre.
	T_2	
Source of technology	Tamil Nadu Agricultural university, Coimbatore(2017)	
Plot size	0.4	
No. of farmers	10	
Total cost	5000	
Critical input	Rice seed, Beejamrit, Ghan Jeevamrit, Taral Jeevamrit and Neemastra	
Performance indicators: (v)Growth and Yield attributes (vi) Technical- **yield (q/ ha)** (vii) Economic (viii) Social – **Employment generation**	Plant Height (cm), No. of tillers/m2, No. of ear head/m2, No. of seeds/ear head, Test weight (g), Grain Yield (q/ha), Straw Yield (kg/ha), Cost of cultivation (Rs./ha), net returns (Rs/ha), B:C ratio	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming practices on growth and yield contributing attributes in Rice..
Year/Season:	2024-25/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Indiscriminate use of chemical fertilizers has brought threat to soil health in respect of physical, chemical and biological properties of soil.
Thematic area:	Natural Farming
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-	Seed treatment with Carboxin+ thiram @ 2 g/kg seed, Application of NPK (48:24:16) kg/acre, Application of Bysperback sodium @ 80 gm/acre) PoE for weed control and application of Thiamethoxam @ 100 g/acre for control of gandhi bug
T2 –Recommended Practice-	Seed treatment with Beejamrit @ 20 ml/kg seed, Soil application of Ghan Jeevamrit @ 200 kg /acre + Four foliar application of liquid Jeevamrit @ 85 litre /acre at 21 days interval each spray), Straw mulching for weed management and moisture conservation and two foliar application of Neemastra @ 12 litre /acre.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	

Source of technology:	Tamil Nadu Agricultural university, Coimbatore(2017)
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3 Agronomy

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Agri drone sprayer for chemical weed control in Wheat	
Problem diagnosed	Manual spraying is more laborious and time taking and sometimes not more effective and efficient due to poor distribution of spray material	
Farmers' Practices	Application of Metribuzin 70% WP @ 0.175 kg a.i. ha^{-1} POE by Knapsack Sprayer	
Details of technologies selected for assessment	T_1	Application of Metribuzin 70% WP @ 0.175 kg a.i. ha^{-1} POE by Agri Drone Sprayer
	T_2	
Source of technology	Vasantrao Naik Marathwada Krishi Vidyapeeth (VNMKV), Parbhani (2021)	
Plot size	0.4	
No. of farmers	10	
Total cost	5000	
Critical input	Metribuzin 70% WP	
Performance indicators: (ix) Growth and Yield attributes (x) Technical- **yield (q/ ha)** (xi) Economic (xii) Social – **Employment generation**	No of weeds/m2, weed control efficiency (%), Labour saving (MD), time saving (hrs). Grain yield (kg/ha), Cost of Cultivation (Rs/ha), Net returns (Rs/ha) and B:C ratio.	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Agri drone sprayer for chemical weed control in Wheat
Year/Season:	Rabi 2024-25 (Second Year)
Farming situation:	Irrigated
Problem diagnosis:	Manual spraying is more laborious and time taking and sometimes not more effective and efficient due to poor distribution of spray material
Thematic area:	Precision Farming
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 Metribuzin 70% WP @ 0.175 kg a.i. ha^{-1} POE by Knapsack Sprayer

T2 –Recommended Practice-	Application of Metribuzin 70% WP @ 0.175 kg a.i. ha^{-1} POE by Agri Drone Sprayer
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Vasantrao Naik Marathwada Krishi Vidyapeeth (VNMKV), Parbhani (2021)
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4 Agronomy

Crop / Enterprise	Lentil	
Title of on farm trial	Assessment of moisture stress resistant varieties of lentil under Rice- Fallow cropping system	
Problem diagnosed	Rice–Fallow land due to growing of longer duration variety of Rice by farmers affect timely sowing of rabi crop and land remains fallow due to inadequate moisture in field along with terminal heat stress(about 14000 ha area)	
Farmers' Practices	Rice (Variety with maturity above 125 days) Rice- Fallow	
Details of technologies selected for assessment	T_1	IPL 534: Yield 15-16 q/ha, duration 100-107 days, Resistant to moisture stress. Resistant to rust and Fusarium wilt. Tolerant to black aphid and pod borer.
	T_2	RVL 11-6: Yield 14-16 q/ha, duration 107-113 days, Resistant to moisture stress & wilt
Source of technology	IIPR, Kanpur (2020), RVSKVV Gwalior (2017)	
Plot size	0.4	
No. of farmers	10	
Total cost	5000	
Critical input	Seeds	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- **yield (q/ ha)** (xv) Economic (xvi) Social – **Employment generation**	Plant Height (cm), No. of branches, No. of pods/plant, No. of seeds per pod, Test weight (g), Seed Yield (q/ha), Stover Yield (kg/ha), Cost of cultivation (Rs./ha), net returns (Rs/ha), B:C ratio	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of moisture stress resistant varieties of lentil under Rice- Fallow cropping system
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Rice–Fallow land due to growing of longer duration variety of Rice by farmers affect timely sowing of rabi crop and land remains fallow due to inadequate moisture in field along with terminal heat stress(about 14000 ha area)
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-	Rice (Variety with maturity above 125 days) Rice- Fallow
T2 –Recommended Practice-	IPL 534: Yield 15-16 q/ha, duration 100-107 days, Resistant to moisture stress. Resistant to rust and Fusarium wilt. Tolerant to black aphid and pod borer.
T3- Recommended Practice-	RVL 11-6: Yield 14-16 q/ha, duration 107-113 days, Resistant to moisture stress & wilt
Date of sowing:	
Date of harvesting:	
Source of technology:	IIPR, Kanpur (2020), RVSKVV Gwalior (2017)
Characteristics of technology:	
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-1 Horticulture

Crop / Enterprise	Okra/Natural Farming	
Title of on farm trial	Assessment of YVMV and OLCV varieties of Okra under natural farming system	
Problem diagnosed	High infestation of YVMV and OLCV (Okra Leaf Curl irus)resulting into yield loss up to 30-50 %	
Farmers' Practices	Growing of locally market available varieties susceptible to YVMV and OLCV, giving low yield of 75-80 q/ha under chemical farming. Application of FYM 100 q/ha before sowing,application of NPK @ 90:50:40, Application of thiomethoxam@ 150 ml/ha against sucking pests(1 times)	
Details of technologies selected for assessment	T_1	Kashi Chaman- variety resistant to YVMV and OLCV , yield 150-160 q/ha, Application of natural farming practices(Beejamrit, Jeevamrit, Mulching and Bio pesticide)
	T_2	Kashi Lalima - Reddish purple fruits, tolerant to YVMV and OLCV, fruit yield 140-150 q/ha. Rich in anthocynin and phenolics, Application of natural farming practices(Beejamrit, Jeevamrit, Mulching and Bio pesticide)
Source of technology	IIVR(2019) & UAHS,Karnatka(2021)	
Plot size	1000 m^2	
No. of farmers	10	
Total cost	5000	
Critical input	Seed	
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- **yield (q/ ha)** (xix) Economic (xx)Social – **Employment generation**	Plant height(cm) at 120 DAS, fruit length(cm), av. fruit weight(g), no. of fruits/plant, Fruit yield(q/ha), Cost of cultivation(Rs/ha), Gross returns(Rs/ha), Net returns (Rs/ha), B:C ratio.	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of YVMV and OLECV varieties of Okra under natural farming system
Year/Season:	2024(Kharif)
Farming situation:	Irrigated, Upland
Problem diagnosis:	High infestation of YVMV and OLECV resulting into yield loss up to 30-50 %
Thematic area:	Varietal Evaluation, Natural Farming
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-	Growing of locally market available varieties suceptible to YVMV and OLECV, giving low yield of 75-80 q/ha under chemical farming. Application of FYM 100 q/ha before sowing,application of NPK @ 90:50:40, Application of thiomethoxam@ 150 ml/ha against sucking pests(1 times)
T2 –Recommended Practice-	Kashi Chaman- variety resistant to YVMV and OLECV , yield 150-160 q/ha, fruit darkgreen with fruit length of 11-14 cm, medium tall variety . Flowering starts in 39-41 days, and fruiting period lasts from 45-100 days
T3- Recommended Practice-	Reddish purple fruits, tolerant to YVMV and OLECV, fruit yield 140-150 q/ha. Rich in anthocynin and phenolics, medium tall variety
Date of sowing:	July
Date of harvesting:	October- November
Source of technology:	IIVR(2019) & UAHS,Karnatka(2021)
Characteristics of technology:	Varieties are resistant and tolerant to YVMV and OLECV, high yielder, attractive fruit colour, long fruiting priod Application of Ghanjeevamrut @ 1000kg/ha,Seed tratment with beejamrut ,Application of Jeevamrut @ 500 litres per ha t an interval of 15 days(6 times) ,Mulching ,Application of Neemastra @ 0.3% against sucking pests(2 times)
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2 Horticulture

Crop / Enterprise	Potato
Title of on farm trial	Assessment of processing varieties of potato for their growth and yield parameters in Satna District.

Problem diagnosed	Farmers generally use locally available tubers as planting material, which is not suitable for processing purpose
Farmers' Practices	Locally available seed
Details of technologies selected for assessment	T_1 Kufri Chipsona 4
	T_2 Kufri Frysona Varieties having high dry matter content (21-23 %), acceptable reducing sugar level between 60-140 mg/100g fresh weight, Good for processing (chips and namkeen making
Source of technology	CPRI(2019)
Plot size	200 m^2
No. of farmers	10
Total cost	5000
Critical input	Seed
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- **yield (q/ ha)** (xxiii) Economic (xxiv) Social – **Employment generation**	Plant height(cm), no. of branches/plant, no. of tubers/plant, tuber size(cm2), av. tuber weight(g) tuber yield((kg/ha), Net returns(Rs/ha), B:C ratio.

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of processing varieties of potato for their growth and yield parameters in Satna District.
Year/Season:	2024-25(Rabi)
Farming situation:	Irrigated
Problem diagnosis:	Farmers generally use locally available tubers as planting material, which is not suitable for processing purpose
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-	Locally market available seed.
T2 –Recommended Practice-	Kufri Chipsona 4
T3- Recommended Practice-	Kufri Frysona Varieties having high dry matter content (21-23 %), acceptable reducing sugar level between 60-140 mg/100g fresh weight, Good for processing (chips and namkeen making
Date of sowing:	
Date of harvesting:	
Source of technology:	CPRI(2019)

Characteristics of technology:	Varieties having high dry matter content (21-23 %), acceptable reducing sugar level between 60-140 mg/100g fresh weight, Good for processing (chips and namkeen making
Name of Crop/Enterprises:	Potato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3 Horticulture

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of Onion production under natural farming system .	
Problem diagnosed	The cost of inorganic fertilizers is Increasing enormously to the extent that they are out of reach of small and marginal farmers.	
Farmers' Practices	Recommended dose of fertilizer NPK @ 120:80:60 Kg/ha	
Details of technologies selected for assessment	T_1	Treatment of seedlings with Beejamrit (0.3%) before transplanting. Soil Application of ghan jeevamrit @ 500 kg/ha +Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage + Application of soil mulch (paddy straw@ 50 T/ha) + Need based Application of Neemastra /Brahmastra@ 0.3% for pest management
	T_2	100% RDF + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage
Source of technology	University of Agricultural Sciences, Bangaluru(2017)	
Plot size	200 m^2	
No. of farmers	10	
Total cost	5000	
Critical input	Seed/Seedling and Bio-formulation	
Performance indicators: (xxv) Growth and Yield attributes (xxvi) Technical- **yield (q/ ha)** (xxvii) Economic (xxviii) Social – **Employment generation**	Plant height(cm), no. of leaves/plant, girth of bulb(cm/plant), weight of the bulb(g/plant) yield(q/ha), Net returns(Rs/ha), B:C ratio.	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Jeevamrit on growth and yield of Onion.
Year/Season:	2024(Rabi)
Farming situation:	Irrigated
Problem diagnosis:	The cost of inorganic fertilizers is Increasing enormously to the extent that they are out of reach of small and marginal farmers.
Thematic area:	Chemical fee Natural Farming

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-	Recommended dose of fertilizer NPK @ 120:80:60 Kg/ha
T2 –Recommended Practice-	Treatment of seedlings with Beejamrit (0.3%) before transplanting. Soil Application of ghan jeevamrit @ 500 kg/ha +Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage + Application of soil mulch (paddy straw@ 50 T/ha) + Need based Application of Neemastra /Brahmastra@ 0.3% for pest management
T3- Recommended Practice-	100% RDF + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage
Date of sowing:	
Date of harvesting:	
Source of technology:	University of Agricultural Sciences, banglore(2017)
Characteristics of technology:	Microbial preparation Jeevamrit promotes immense biological activity in soil and enhances nutrient availability and uptake by the crop besides improving soil health. Being rich in nutrients, auxins, gibberellins, and microbial load, acts as a tonic to in rich soil induced plant vigour with quality production. Application of Bio enhancer improves the production, productivity and quality of onion.
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-1 Plant Protection

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of efficacy of bio pesticide against, Brinjal Shoot &Fruit Borer	
Problem diagnosed	Loss of crop yield up to 30-35% due to severe infestation of brinjal Shoot &Fruit Borer. Several insecticides recommended for management of brinjal Shoot & Fruit Borer are showing resistance to insecticide.	
Farmers' Practices	Foliar application Emamectin benzoate 5 sg@ 80 gram/ acre	
Details of technologies selected for assessment	T_1	Foliar application of Aganistra biopesticide@ 5 % at 20 Days after transplanting to till Harvest at 10 days internal
	T_2	Foliar application of Bramastra biopesticide @ @ 5 % at 20 Days after transplanting to till Harvest at 10 days internal.
Source of technology	Himanchal Pradesh Krishi Vishvavidyalaya, Palampur (2023).	
Plot size	0.5 acre	
No. of farmers	10	
Total cost	6000	
Critical input	Biopesticde (Agniastra & Neemastra)	

Performance indicators: (xxix) Growth and Yield attributes (xxx) Technical- **yield (q/ ha)** (xxxi) Economic (xxxii) Social – **Employment generation**	Brinjal Shoot Infestation %, Fruit Infestation % No. of healthy fruit per plant,Yield(q/ha), Cost of cultivation (Rs/ha.) Net returns(Rs/ha), B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of efficacy of bio pesticide against, brinjal Shoot &Fruit Borer
Year/Season:	2024/Kharif
Farming situation:	Irrigation
Problem diagnosis:	Loss of crop yield up to 30-35% due to severe infestation of brinjal Shoot &Fruit Borer. Several insecticides recommended for management of brinjal Shoot & Fruit Borer are showing resistance to insecticide.
Thematic area:	Natural Farming
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-	Foliar application of Indoxacarb 14.5% @ 150 ml/ acre .
T2 –Recommended Practice-	Foliar application of Aganistra biopesticide@ 5 % at 20 Days after transplanting to till Harvest at 10 days internal
T3- Recommended Practice-	Foliar application of Bramastra biopesticide @ @ 5 % at 20 Days after transplanting to till Harvest at 10 days internal.
Date of sowing:	
Date of harvesting:	-
Source of technology:	Himanchal Pradesh Krishi Vishvavidyalaya, Palampur (2023).
Characteristics of technology:	Use in foliar application of bramastra biopesticide @ @ 5 % at 20 days after transplanting to till Harvest at 10 days internal.
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2 Plant Protection

Crop / Enterprise	**Black gram**
Title of on farm trial	**Assessment of efficacy of bio pesticide against, Pod borer and Bihar hairy caterpillar in Black gram**
Problem diagnosed	**Loss of crop yield due to different pests of black gram up to 25-30 %. Several insecticides recommended for**

	management of Pod borer & Bihar hairy caterpillar are showing resistance to insecticide.
Farmers' Practices	Foliar application of Indoxacarb 14.5% @ 150 ml/ acre .
Details of technologies selected for assessment	T_1 Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS
	T_2 **Foliar application of Bramastra biopesticide @ 6 % at 25,40& 50 DAS**.
Source of technology	Himanchal Pradesh Krishi Vishvavidyalaya, Palampur (2023).
Plot size	1 acre
No. of farmers	10
Total cost	5000
Critical input	Biopesticde (Agniastra & Neemastra)
Performance indicators: (xxxiii) Growth and Yield attributes (xxxiv) Technical- **yield (q/ ha)** (xxxv) Economic (xxxvi) Social – **Employment generation**	**No. of insect per plants , Insect control (%), Yield(q/ha), Cost of cultivation (Rs/ha.) Net returns(Rs/ha), B:C ratio**

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	**Assessment of efficacy of bio pesticide against, Pod borer and Bihar hairy caterpillar in Black gram**
Year/Season:	2024/Kharif
Farming situation:	Irrigation
Problem diagnosis:	Loss of crop up to 30-35% yield due to severe infestation of brinjal Shoot &Fruit Borer. Several insecticides recommended for management of brinjal Shoot & Fruit Borer are showing resistance to insecticide.
Thematic area:	Natural Farming
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-	Foliar application of Indoxacarb 14.5% @ 150 ml/ acre .
T2 –Recommended Practice-	Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS
T3- Recommended Practice-	Foliar application of Bramastra biopesticide @ 6 % at 25,40& 50 DAS.
Date of sowing:	20.07.2024
Date of harvesting:	-
Source of technology:	**Tamil Nadu Agricultural university, Coimbatore(2017).**
Characteristics of technology:	Use in Foliar application of Bramastra biopesticide @ 6 % at 25,40& 50 DAS
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

OFT-03 Plant Pathology

Crop / Enterprise		Rice
Title of on farm trial		Assessment of IPM Models in managing stem borer and leaf folder of Rice
Problem diagnosed		Loss of crop up to 30-35% yield due to severe infestation of stem borer and leaf folder of Rice
Farmers' Practices		Foliar application of Indoxacarb 14.5% @ 150 ml/ acre .
Details of technologies selected for assessment	T_1	T-1. Seed treatment with Carbendazim12% + Mancozeb 63%WP Application of chloraniliprole 0.4 %GR @4kg per acre at 15-30 DAT, two row skip transplanting after 10 rows installation Scirpolure Pheroman trap for rice stem borer and leaf folder @ 5 per acre and need based foliar application of fipronil 0.5ml /litre
	T_2	
Source of technology		RKMVU, Sonarpur Kolkata,2017
Plot size		1 acre
No. of farmers		10
Total cost		5000
Critical input		Biopesticde (Agniastra & Neemastra)
Performance indicators: (xxxvii) Growth and Yield attributes (xxxviii) Technical- **yield (q/ ha)** (xxxix) Economic (xl) Social – **Employment generation**		Infestation percent of stem borer and leaf folder , Yield(q/ha), Cost of cultivation (Rs/ha.) Net returns(Rs/ha), B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM Models in managing stem borer and leaf folder of Rice
Year/Season:	2024/Kharif
Farming situation:	Irrigation
Problem diagnosis:	Loss of crop up to 30-35% yield due to severe infestation of stem borer and leaf folder of Rice
Thematic area:	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-	T-1, Foliar application of Chlorpyriphos 20% EC@ 400 ml/ acre .
T2 –Recommended Practice-	T-2. Seed treatment with Carbendazim12% + Mancozeb 63%WP Application of chloraniliprole 0.4 %GR @4kg per acre at 15-30 DAT, two row skip transplanting after 10 rows installation Scirpolure Pheroman trap for rice stem borer and leaf folder @ 5 per acre and need based foliar application of

	fipronil 0.5ml /litre
T3- Recommended Practice-	-.
Date of sowing:	15.07.2024
Date of harvesting:	-
Source of technology:	**Tamil Nadu Agricultural university, Coimbatore(2017).**
Characteristics of technology:	Use in Seed treatment with Carbendazim12% + Mancozeb 63%WP and foliar application of chloraniliprole 0.4 %GR @4kg per acre at 15-30 DAT, two row skip transplanting after 10 rows installation Scirpolure Pheroman trap for rice stem borer and leaf folder @ 5 per acre and need based foliar application of fipronil 0.5ml /litre
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-04 Plant Pathology

Crop / Enterprise	Mustard
Title of on farm trial	Assessment of efficacy bio pesticide against aphid (Sucking pest) in Mustard
Problem diagnosed	Loss of crop up to 30-35% yield due to severe infestation of sucking pests(Aphids) in mustard Crop.
Farmers' Practices	Foliar application of Thiamethoxam 25 wg @ 100 gram/ acre .
Details of technologies selected for assessment	T_1 Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS
	T_2 Foliar application of Bramastra biopesticide @ 6 % at 25,40& 50 DAS
Source of technology	Tamil Nadu Agricultural university, Coimbatore(2017).
Plot size	1 acre
No. of farmers	10
Total cost	4500
Critical input	Biopesticde (Agniastra & Neemastra)
Performance indicators: (xli) Growth and Yield attributes (xlii) Technical- **yield (q/ ha)** (xliii) Economic (xliv) Social – **Employment generation**	No. of sucking pests per plants , Insect control (%), Yield(q/ha), Cost of cultivation (Rs/ha.) Net returns(Rs/ha), B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of efficacy bio pesticide against aphid (Sucking pest) in Mustard
Year/Season:	2024/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Loss of crop up to 30-35% yield due to severe infestation of sucking pests(Aphids) in mustard Crop.

Thematic area:	Natural
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.Foliar application of Thiamethoxam 25 wg @ 100 gram/ acre .
T2 –Recommended Practice-	T-2. Seed treatment imidacloprid 600 FS 48 % ,Soil application trichoderma viridi,and foliar application of Neemastra@ 6 % at 25,40 & 50 DAS
T3- Recommended Practice-	T-3. Foliar application of Aganistra biopesticide @ 6 % at 25,40& 50 DAS
Date of sowing:	-.
Date of harvesting:	05.10.2024
Source of technology:	-
Characteristics of technology:	**Tamil Nadu Agricultural university, Coimbatore(2017).**
Name of Crop/Enterprises:	Use in Seed treatment imidacloprid 600 FS 48 % ,Soil application trichoderma viridi,and foliar application of Neemastra@ 6 % at 25,40 & 50 DAS
Recommendations for Farmers	Mustard
Recommendations for Deptt. Personnel	-
Feedback	-
	-

OFT-01 Animal Science

Crop / Enterprise	Poultry	
Title of on farm trial	Evaluation of poultry breed-Narmada Nidhi.	
Problem diagnosed	Poor productivity & high mortality due to poor quality of poultry.	
Farmers' Practices	Rearing of Local poultry birds	
Details of technologies selected for assessment	T1	Data to be collected from local poultry farmers.
	T2	Rearing of poultry breed-Narmada Nidhi in back yard system of Poultry farming.
Source of technology	N.D. Uni.of Vet. Sci. Jabalpur	
No of Animals	100	
No. of farmers	04	
Total cost	17000	
Critical input	100 chicks of Narmada Nidhi Breed (one month old) and vaccine	
Performance indicators: (xlv) Growth and Yield attributes (xlvi) Technical- **yield (q/ ha)** (xlvii) Economic (xlviii) Social – **Employment generation**		

Detailed Information about OFT:

Name of Discipline	Animal Science
Title of on-farm trial:	Evaluation of poultry breed-Narmada Nidhi.
Year/Season:	April-2024
Farming situation:	Semi Scavenging
Problem diagnosis:	Poor performance due the unavailability of quality poultry birds.
Thematic area:	Poultry farming
No of trials:	100
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local poultry birds
T2 –Recommended Practice-	Narmada Nidhi breed of Poultry.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	N.D. Uni.of Vet. Sci. Jabalpur
Characteristics of technology:	It is dual Purpose breed and having ability to average egg production 180 per year.
Name of Crop/Enterprises:	Poultry Farming
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-02 Animal Science

Crop / Enterprise	Dairy	
Title of on farm trial	Assessment the anti diarrhoeic effect of whey on lactating buffalo.	
Problem diagnosed	Open grazing is a very common system of livestock farming specially from the month of March to October in the district but in the month of June lactating buffaloes used to suffer from heat stress, diarrhoea and poor performance of milk productivity.	
Farmers' Practices	No medication due to poor availability of vet. Services and lack of knowledge.	
Details of technologies selected for assessment	T1	It is diuretic and having antibacterial property. cheaper and easily available.
	T_2	
Source of technology	Central Arid Zone Research Institute, Jodhpur (2020)	
No. Of Animal	06	
No. of farmers	06	

Total cost	3500
Critical input	84 lits whey.
Performance indicators: (xlix) Growth and Yield attributes (l) Technical- **yield (q/ ha)** (li) Economic (lii) Social – **Employment generation**	Change in body weight and milk productivity (kg/lit) after 20 days of treatment and B: C ratio

Detailed Information about OFT:

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment the anti diarrhoeic effect of whey on lactating buffalo.
Year/Season:	Kharif, 2024
Farming situation:	Semi grazing.
Problem diagnosis:	Open grazing is a very common system of livestock farming especially from the month of March to October in the district but in the month of June lactating buffaloes used to suffer from heat stress, diarrhoea and poor performance of milk productivity.
Thematic area:	Dairy Animal Disease management
No of trials:	6
No. of farmers involved	6
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No medication due to poor availability of vet. Services and lack of knowledge.
T2 –Recommended Practice-	Total 8 diarrheic and Lactating buffaloes to be selected for conducting trial and fed with 2 litres of whey to control the diarrhoea and It is followed for one week.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Central Arid Zone Research Institute, Jodhpur (2020)
Characteristics of technology:	It is diuretic and having antibacterial property. cheaper and easily available.
Name of Crop/Enterprises:	Dairy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-03 Animal Science

Crop / Enterprise	Dairy
Title of on farm trial	Assessment the effect of chick pea flour mixed with butter milk in expelling retained fetal membranes for quitting of Placenta in buffalo.
Problem diagnosed	Retained placenta is an important post partum complication. The placenta may be retained because of lack of expulsive forces or failure of separation of fetal cotyledons.
Farmers' Practices	Farmers are not awaked regarding problem and solution therefore no proper treatment.
Details of technologies selected for assessment	T_1 Since it has multiple aetiologies, the therapy commonly advocated includes Ecbolics drugs and or hormones stimulating uterine contractility, minerals (mainly Ca & P), enzymes which may facilitate.) T_2
Source of technology	Collage of Vet. Sci. and Animal Husbandry, Junagadh (Gujarat) (Year 2017)
No of Animals	06
No. of farmers	06
Total cost	2500
Critical input	*18 kg flour of chickpea and Butter milk18 liters*
Performance indicators: (liii) Growth and Yield attributes (liv) Technical- **yield (q/ ha)** (lv) Economic (lvi) Social – **Employment generation**	quitting of Placenta percentage and B: C ratio

Detailed Information about OFT:

Name of Discipline	
Title of on-farm trial:	Assessment the effect of chick pea floor mixed with butter milk (rabri) in expelling retained fetal membranes (quitting of Placenta) in buffalo.
Year/Season:	Kharif, 2024
Farming situation:	Semi Grazing
Problem diagnosis:	Retained placenta is an important post partum complication. The placenta may be retained because of lack of expulsive forces or failure of separation of fetal cotyledons and maternal carbuncles.
Thematic area:	Animal Disease management.
No of trials:	06
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers are not awared regarding problem and solution.

T2 –Recommended Practice-	*The parched chick pea floor (1 kg) mixed with buttermilk to be fed to the affected animals for three days.*
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Collage of Vet. Sci. and Animal Husbandry , Junagadh (Gujarat) (Year 2017)
Characteristics of technology:	Anthelmintics Property, cheaper and easily available.
Name of Crop/Enterprises:	Dairy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-01 Soil Science

Crop / Enterprise	Mustard
Title of on farm trial	Assessment of Soil test based application of fertilizers in Mustard
Problem diagnosed	Low yield of mustard due to imbalance use of fertilizers
Farmers' Practices	Farmers generally apply NPK 60:40:0 with no application of sulphur and micronutrients
Details of technologies selected for assessment	T1 Soil test based application of fertilizers
Source of technology	IISR 2018
Plot size	1.0 acre
No. of farmers	10
Total cost	6000
Critical input	Soil test based nutrients
Performance indicators: (lvii) Growth and Yield attributes (lviii) Technical- **yield (q/ ha)** (lix) Economic (lx) Social – **Employment generation**	Plant cm), no. of branches(no.s. No. of silique/ plant no. of seeds per siliqua, yeild per plant(g) yield(q /ha), cost of cultivation(Rs/ha, Gross income(rs/ha), net income(Rs/ha) B:C ratio.

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Soil test based application of fertilizers in Mustard
Year/Season:	Rabi 2024-25
Farming situation:	Rain fed
Problem diagnosis:	Low yield of mustard due to imbalance use of fertilizers

Thematic area:	Soil fertility and nutrition
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-	Farmers generally apply NPK 60:40:0 with no application of sulphur and micronutrients
T2 –Recommended Practice-	Soil test based application of fertilizers
T3- Recommended Practice-	
Date of sowing:	15.10.2024
Date of harvesting:	
Source of technology:	IISR 2018
Characteristics of technology:	Soil test based application of nutrients enhances the soil fertility resulting in increase in yield and quality of produce
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Information about Extension OFT: 01

Title	Assessment of change in farmer's perception towards participation in Extension Activities like Kisan Gosthi, Group Meetings, Sammelan programmer by using Public Addressing System (PAS) audio devices.
Season & Year	2023-24
Problem identified	Less motivation towards participation and attention in off campus training programmes among farmers
Thematic Area	Extension Management
Farming situation	NA
Name of Technology Intervention under study	PAS
Farmers Practice	Public addressing system is considered to be the most effective and efficient tool in organization of meetings and campaign in rural areas
No. of replication (Farmers)	25

Results / findings

Performance indicator/ parameter (N=25)						
S. No	**Name of Indicators used**	**Responses of selected Farmers**				
01	Per cent increase/decrease in participation of Farmers	**Year**	**No of Extension Activity**	**Total no of Participate**	**Avg. Participation**	**Result**
02	Increase/decrease time taking by farmers to assemble at event spot					
03	Change in attitude of farmers towards KVK Extension Activity	1. Favorable Condition				
		2. Unfavorable Condition				
		3. Undecided				
04	Farmers feedback					

Information about Home Science OFT: 01

Title of on-farm trial:	Sensory assessment of value added products prepared from mahua flowers
Year/Season:	2024
Problem diagnosis:	Poor market price of non value added mahua flowers and lack of knowledge about development of nutritious food items of mahua flowers
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	20
No. of farmers/farm women involved	20
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Sell of raw mahua flowers
T2 –Recommended Practice-	Value addition of mahua flower by making Laddoo
T3 –Recommended Practice-	Value addition of mahua flower by making Latta
Source of technology:	BAU Ranchi (2018)
Performance indicators Observation to be recorded	Organoleptic test 1-5 scale- (Colour, Test, Flavor, appearance, acceptability) Self life, Net return (Rs/kg), B:C ratio
Characteristics of technology:	Value added products will fetch better price (Rs.150-400/kg) against Rs.50 /kg for the raw mahua flowers further it will create employment opportunity at local level

Name of Crop/Enterprises:	Mahua flower
Farming situation:	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 effectiveness of Ragi Laddu on haemoglobin level and body weight of pre-school (3-5 Years) children
Year/Season:	2024
Problem diagnosis:	High Prevalence of malnutrition (stunting, wasting and underweight) and low level of haemoglobin content among under 5 years tribal children
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	20
No. of farmers/farm women involved	Daily common diet
Type of OFT (Assessment/ Refinement):	Giving Ragi Laddu 50 g per day per pre-school children in the Monday to Saturday morning for 30 Days
Details of technology selected for assessment:	
T1 – Farmers Practice-	Daily common diet
T2 –Recommended Practice-	Giving Ragi Laddu 50 g per day per pre-school children in the Monday to Saturday morning for 30 Days
Source of technology:	Mother Terasa college of Nursing, Aurangabad (MS) 2020
Performance indicators Observation to be recorded	Pre and post haemoglobin level (Value), body weight gain (kg), increase in height (cm), Change in BMI
Characteristics of technology:	Laddu having higher high calorie, quality protein and many essential nutrients which are required by children for proper growth and development of pre school children
Name of Crop/Enterprises:	Nutritious Ragi Laddu
Farming situation:	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 value addition of aonla on tribal farm family income
Year/Season:	2024
Problem diagnosis:	Poor socio economic condition of tribal farm families dependent on forest produce
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value Addition
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-	T-1Collection and selling of fresh aonla fruit in the market
T2 –Recommended Practice-	T-2 Selling of dried aonla (Amlethi) in the market.
T3 –Recommended Practice-	T3-Selling of Aonla powder in the market
Source of technology:	CISH, Lucknow (2018)
Performance indicators Observation to be recorded	Increase in Farm Family Income (Rs), Recovery of dried aonla powder per quintal of fresh fruit(kg), B:C ratio, Employment generation
Characteristics of technology:	
Name of Crop/Enterprises:	Aonla
Farming situation:	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 income enhancement of tribal farm families following value addition of oyster mushroom
Year/Season:	2024

Problem diagnosis:	Low market value of fresh mushroom
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value Addition
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-	T-1 Selling of fresh mushroom at low price
T2 –Recommended Practice-	T-2 Oyster mushroom powder
Source of technology:	ICAR-National Research Centre for Mushroom , Solan (2008)
Performance indicators Observation to be recorded	Average Cost of input (Rs/unit), Average Gross Return (Rs/unit), Average Net Return (Rs/unit), Benefit-Cost Ratio
Characteristics of technology:	
Name of Crop/Enterprises:	Mushroom
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
	Agronomy							
1.	Rice	Resource Conservation Technology	Demonstration on direct seeding technology in Rice for reduction of cost and mitigate climate change	Improved variety (Shwarn Shrey) and Weedicide (Bysperback sodium @ 80 gm/acre)	Kharif 2024-25	4	10	Yield kg/ha, Cost of cultivation (Rs/ha) Gross Monetary return (Rs/ha), Net Monetary return (Rs/ha)
2.	Kodo millet	Weed	Demonstration of	Bensulfuron ethyl 0.6 +	Kharif	4	10	No of weeds/m2, Weed Control

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
		Management	Integrated Weed Management technology for management of weeds in Kodon millet	Pretilachlor 6.0 G (Londax power)	2024-25			Efficiency (%), Grain yield (kg/ha), Cost of Cultivation (Rs/ha), Net returns (Rs/ha) and B:C ratio.
3.	Wheat	Resource Conservation Technology	Demonstration of Zero tillage technology of wheat under rice-wheat cropping sequence	Zero till sowing and Improved variety seeds	Rabi 2024-25	4	10	No. of tillers/plant, No. of ears/plant, Cost saving (Rs/ha), Grain yield (q/ha), Gross Monetary Return (Rs/ha), Net Monetary Return (Rs/ha), B:C ratio
4.	Mustard	Natural Farming	Demonstration of Natural Farming practices in Mustard	Mustard seed, Beejamrit, Ghan Jeevamrit, Taral Jeevamrit and Neemastra	Rabi 2024-25	4	10	Plant Height(cm), No. of branches, No. of silique/plant, No. of seeds per siliqua, Test weight (g), Seed Yield (Kg/ha), Stover Yield (kg/ha), Cost of cultivation, net returns (Rs/ha). B:C ratio
	Horticulture							
01	Tomato	Chemical free Natural Farming	Demonstration of Chemical free Natural farmingpractices in tomato.	Seed and Plastic Drum	Rabi 2024-25	1.0	20	Plant height(cm), no. of branches/plant, no. of flowers/plant, no. of fruits /plant, fruit size(cm2), av. Fruit weight(g0 fruit yield)(kg/ha), days to first flower initiation, days to fruit setting after flowering, days to first harvest after flowering, Net returns(Rs/ha), B:C ratio.
02	Cabbage(Pusa Drum head) + Pea(Kashi Unnati)	Crop Diversification and intensification (Intercropping)	Demonstration of vegetable intercropping (Cabbage +Pea) for ensuring higher returns under Okra- Cabbage-Onion cropping sequence.	Seed	Rabi 2024-25	1.0	20	Yield of Cabbage Main crop Equivalent Yield of intercrop, Increase in yield(q/ha) Increase in income/ha, Net return, Benefit cost ratio .
03	Potato	Chemical Free Natural Farming	Demonstration of Chemical free Natural farmingpractices in Potato.	Seed	Rabi 2024-25	1.0	20	Plant height(cm), no. of branches/plant, no. of tubers/plant, tuber size(cm2), av. tuber weight(g) tuber yield((kg/ha), Net returns(Rs/ha), B:C ratio.
04	Bitter gourd	Integrated nutrient management	Demonstration of foliar application of Urea and boric acid in Bitter gourd for improving fruit set and yield	Seed	Kharif2024	2.0	20	Vine Length(m), no. of fruits per vine fruit diameter(cm), av. fruit weight(g) fruit yield(kg/ plant, Yield(kg/ha), Net returns(Rs/ha), B:C ratio.
	Plant Protection							

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
01	Rice	Integrated disease management	Seed treatment with Trichoderma harzianum @ 5 g / kg seed and foliar application of pseudomonas fluorescens @ 0.5 % at before flowering stage	*Trichoderma viride* and *Pseudomonas fluorescence*	Kharif /2024	04 ha.	10	Disease incidence per m2, yield (q/ha) , Cost of cultivation (Rs/ha.) , net returns(Rs/ha), B:C ratio.
02	Tomato	Integrated disease management	Soil application of *Trichoderma viride* @ 4 kg /ha. at 15 days before transplanting followed by prophylactic spray of fungicides viz., Metalaxyl + Mancozeb 72% (0.2%), spray at regular intervals of ten, twenty and thirty days.	*Trichoderma viride* and fungicides (Metalaxyl + Mancozeb - 72%)	Kharif /2024	02 ha.	10	Disease incidence per m2, No. healthy fruit /plant , Yield (kg/ha.),Cost of cultivation (Rs/ha.) , Net returns(Rs/ha), B:C ratio.
03	Chickpea	Integrated Disease Management	Summer Deep ploughing + Soil application of Trichoderma viride @ 4 kg/ha + Seed treatment(FIR)+ Intercropping (Chickpea+ Coriander , 10:1or 2) and Marigold planting around t the border + need based foliar application of tebuconazol @ 625 ml/ha at 25 and 45 DAS	*Trichoderma viride* and fungicides (TebuconazoL 25.9 %)	Rabi /2024	05ha	10	Disease incidence per m2, Yield (kg/ha.),Cost of cultivation (Rs/ha.) , Net returns(Rs/ha), B:C **Ratio**
	Animal Science							
01	Goatery	Animal Disease management	Demonstration of Combination of flower juice and powdered seeds of Cassia tora (Sanay) for treatment of diarrhoeic goats.	300 gm powder and 1500 ml of flower juice 3 gm powder of (Sanay)	2024		10	Body weight after three month of treatment(Kg/ Goat) , Success rate of diarrhoea curing (%), Mortality rate during three month after treatment(%) and B: C ratio
02	Poultry	poultry Breed (Kegg	Improved poultry birds in back yard system	100 chicks of 20 days old of improved breed	2024		20	Live body weight (kg/bird) at 3 Month 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
		Golden)						
03	Cattle	Animal Disease management	Demonstration on management to control the Lumpy disease in cattle.		2024		10	
	Home Science							
01	Mahua	Income generation	Value addition of Mahua flower	Mahua flowers, Ragi flour, sesame seed, Fenugreek powder, zinger powder, coconut, Jaggery, Chironji seeds, citric acid	2024	-	20	Cost of production (Rs/kg), Gross returns (Rs./kg), Net Returns (Rs./kg), B:C Ratio
02	Finger millet	Nutritional Security	Value addition of Finger millet	Ragi flour, sesame seed, Fenugreek powder, zinger powder, coconut, Jaggery, Chironji seeds, citric acid	2024	-	20	Cost of production (Rs/kg), Gross returns (Rs./kg), Net Returns (Rs./kg), B:C Ratio
03	Kitchen garden	Nutritional Security	Demonstration of nutritional Kitchen garden for year round production of vegetables to meet family requirement	Kitchen kit	2024	200 sqm	10	Increase in Availability of Vegetables to farm families, Cost of Production(Rs),Net Returns (Rs./anum)
	Drumstick	Nutritional Security	Demonstration on Drumstick dry leaf powder as daily dietary supplement for anemic adolescent	Dry drumstick leaf powder	2024	-	10	Haemoglobin levels after use of multigrain with leafy vegetable , Per capita Consumption gm/ day

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	012	Aug., Sept., Jan. Feb.,	180
2	Farmers Training	016	June, Oct. Nov	200
3	Media coverage	016	Aug., Sept., Jan. Feb.,	Mass

4	Training for extension functionaries	08	June, Oct	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
Mushroom Production	**Mushroom Production**	Rabi /2024	**10**	**10 Unit**	Mushroom seed (spawn),chemical and pollybags	Yield (Kg/bag), Cost of cultivation (Rs/ha.) , net returns(Rs/ha), B:C ratio	Production technology of oyster mushroom Plurotus sajorkaju for income generation in marginalized group of farmers	

**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	Integrated crop Management	Improved variety, Weed Management, Disease Management	Seed, Weedicide, Insecticide	Kharif 2023-24	300	750	Yield (Kg/ha), Cost of cultivation (Rs/ha), GMR (Rs/ha), NMR (Rs/ha), B:C Ratio
2								

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	01	Sept	25
2	Farmers Training	01	July	100

3	Media coverage	01	Sept	Mass
4	Training for extension functionaries	01	July	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	01	01	11	3	14	4	2	6	**20**
Resource Conservation Technologies	01	01	12	2	14	5	1	6	**20**
Integrated Farming	01	01	11	3	14	4	2	6	**20**
Water management	01	01	11	3	14	4	2	6	**20**
Seed production	02	02	22	6	28	8	4	12	**40**
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	02							25
Protective cultivation (Green Houses, Shade Net etc.)									
Nursery Rising									
INM	01	02							30
Production and Management technology	01	02							20
Natural Farming	01	02							25
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Production and use of organic inputs	01	01							**20**
Micro nutrient deficiency in crops	01	01							**20**
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Value addition	06	06							**120**
Women and child care	01	01							**20**
Total									
VII Plant Protection									
Integrated pest management	01	02							**22**
Integrated weed management	01	02							**24**
Integrated pest management	01	02							**24**
Integrated Disease management	01	02							**20**

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Natural Farming	01	02							**20**
Integrated pest management	01	02							**21**
Total									
IX Production of Inputs at site									
Vermi-compost production	01	01							20
Organic manures production	01	01							20
Total									
X Capacity Building and Group Dynamics									
Leadership development	1	1							20
Group dynamics	1	1							20
Formation and Management of SHGs	1	1							20
Mobilization of social capital	0	0							0
Entrepreneurial development of farmers/youths	1	1							20
WTO and IPR issues	1	1							20
Total									
(B) RURAL YOUTH	1	01							20
Mushroom Production									
Bee-keeping									
Seed production	1	1							20
Planting material production									
Vermi-culture									
Value addition	1	1							20
Sheep and goat rearing									
Para extension workers									
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									
Any other (Pl. Specify)									
TOTAL									

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	01	01							20
Resource Conservation Technologies	**01**	**01**							**20**
Crop Diversification	01	01							20
Seed production	01	01							20
Integrated Crop Management	01	01							20
Precision Farming	01	01							20
Total	**6**	**6**							**120**
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	02							50
Off Season vegetables	02	02							**50**
Protective cultivation (Green Houses, Shade Net etc.)	01	02							20
INM	01	02							30
b) Fruits									
Cultivation of Fruit	01	02							20
III Soil Health and Fertility Management									
Soil fertility management	01	01							**20**
Soil and Water Conservation	01	01							**20**
Integrated Nutrient Management	01	01							**20**
Soil and Water Testing	02	02							**40**
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**
Value addition	03	03							**20**
Income generation activities for empowerment of rural	01	0							**20**

Women									
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated pest management	01	01							20
Integrated pest management	01	01							20
Natural Farming	01	01							23
Beekeeping and honey production	01	01							22
Integrated Disease Management	01	01							20
Integrated pest management	01	01							24
X Capacity Building and Group Dynamics									
Leadership development	1	1							**20**
Group dynamics	0	0							**20**
Formation and Management of SHGs	1	1							**20**
Mobilization of social capital	1	1							**20**
Entrepreneurial development of farmers/youths	**1**	**1**							**20**
WTO and IPR issues	1	1							**20**
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
February	F& FW	Summer cultivation of Greengram and Blackgram for crop intensification	**01**							**20**
May	F& FW	Integrated farming system module for improving nutritional and economic security of small and marginal farmers.	**01**							**20**
June	F& FW	Integrated Crop Management Practices in Maize	**01**							**20**

July	F& FW	Improved sowing techniques for Kharif crops	01							20
Oct	F& FW	Natural crop production practices of Mustard	**01**							**20**
Nov	F& FW	Integrated weed management practices for Chickpea	**01**							**20**
Dec	F& FW	Irrigation scheduling for Wheat	**01**							**20**
Horticulture										
										20
May	F& FW	Profitable vegetable based cropping patterns for marginal farmers under irrigated conditions	02							20
June	F& FW	Improved production and management practices in Tomato cultivation	02							20
July	F& FW	Natural Farming Practices in Kharif Season Vegetable Production	02							20
Oct	F& FW	Improved cultivation technology for Potato and onion.	02							20
Livestock production										
	F& FW	Feeding management of pregnant goat	01							20
	F& FW	Low cost housing for goat to minimize adverse effect of climate.	01							20
	F& FW	Nutrient supplementation in poultry feeding.	01							20
	F& FW	Integrated management of infectious diseases in small animals	01							20
	F& FW	Disease management of dairy animals	01							20
	F& FW	Production technology of berseem	01							**20**
Home Science										
Feb	F& FW	Awareness about health and hygiene	01							**20**
March	F& FW	Value addition of tomato	01							**20**
April	F& FW	Development of nutritious food items laddu, Barfi, Candy of Mahua flower (April)	01							**20**
May	F& FW	Value Addition of Mango	01							**20**
Nov	F& FW	Development of nutritious petha from Ash guard (Nov)	01							**20**
Nov	F& FW	Development of value added products from Anola pickles, murabba, Candy	01							**20**
Nov	F& FW	Value addition of Mushroom	01							**20**
Plant Protection										
June	F& FW	Integrated pest management in kharif pulse crops	02							22

2024										
July 2024	F& FW	Integrated weed management in Rice crop	02							24
July 2024	F& FW	Integrated pest management in kharif pulse crops	02							24
August 2024	F& FW	Integrated Disease management in oilseed crops	02							20
Sep.2024	F& FW	Preparation technology of eco friendly bio-pesticides i.e. Neemastra, Bramstra & Aganistra	02							20
Oct.2024	F& FW	Integrated pest management in Mustard crop	02							20
Agriculture Extension (Capacity Building and Group Dynamics)										
April	F& FW	Training Program FPO Business orientation &the delivery mechanism	01							20
May	F& FW	Export opportunities in Agriculture Products	01							20
June	F& FW	Use of Social Media For Agriculture	01							20
July	F& FW	Training program on FIG Formation and Product Marketing	01							20
August	F& FW	Training programme on FPO Business Management	01							20
Soil Science										
Dec 2024	F& FW	Diagnosis of nutrient deficiencies in Rabi pulse and oilseeds crops and their remedial measures	01							**20**
Dec. 2024	F& FW	Methods for improving soil organic carbon	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										
January	F& FW	Techniques of protecting crops against frost injury	01							**20**
May	F& FW	Quality Seed Production of Kodo millet	01							**20**
June	F& FW	Direct Seeded Rice for minimizing cost of production in Rice	01							**20**
July	F& FW	Integrated weed management practices for Kodo millet	01							**20**
October	F& FW	Organic Farming practices for chickpea	01							**20**
November	F& FW	Zero tillage technology for wheat	01							**20**
December	F& FW	Aerial spraying of Nano fertilizers using Agri drone sprayer in Wheat	01							**20**
Horticulture										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
January	FW	Nursery raising technique of cucurbitaceous vegetables in poly bags under poly tunnels	**02**							**25**
January	FW	Foliar application of water soluble nutrients in onion and garlic	**02**							**30**
Feb	FW	Raised bed sowing/planting technique of cucurbitaceous vegetables.	**02**							**20**
May	FW	Layout, planting technique and moisture conservation methods for planting fruit trees on farm bunds and in homesteads	**02**							**20**
May	FW	Improved production and management practices in Bittergourd cultivation	**02**							**25**
June	FW	Nursery raising techniques for Kharif season vegetables.	**02**							**25**
July	FW	Improved production technology of cauliflower during rainy season.	**02**							**25**
Livestock production										
	F& FW	Feeding of pregnant goat	01							20
	F& FW	Forage management in lean period for buffalo.	01							20
	F& FW	Care and management of newly borne calves in winter season	01							20
	F& FW	Importance of de- worming and vaccination in goat.	01							20
	F& FW	Forage management in lean period	01							20
	F& FW	Care and feeding of upgraded progeny of Goat.	01							20
Home Science										
	F& FW	Planning and Layout for establishment of nutritional kitchen garden	01							20
	F& FW	Preparation of balanced diet for farm family through seasonally available local foods	01							20
	F& FW	Design and development of low/minimum cost diet for pregnant women	01							20
	F& FW	Development of nutritious food items berchun and candy from ber	01							20
	F& FW	Value addition of Potato	01							20
	F& FW	Value addition of tomato	01							20
Plant Protection										
July -2024	F& FW	Management of false smut disease in Rice crop	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	
August .- 2024	F& FW	Management of red pumpkin beetle and fruit fly in cucurbits	01							20
Sep.2024	F& FW	Preparation & application of natural Product	01							22
Oct.2024	F& FW	Beekeeping and Honey Production	01							23
Oct.2024	F& FW	Integrated disease management in chickpea	01							20
Oct.2024	F& FW	Integrated pest management in Onion	01							24
Agriculture Extension (Capacity Building and Group Dynamics)										
April	F& FW	Agribusiness Entrepreneurship Opportunities in FPO	01							**20**
May	F& FW	Branding and publicity of our trade product.	01							**20**
June	F& FW	Training program For CEOs Of FPO	01							**20**
July	F& FW	Training program For Directors Of FPO	01							**20**
August	F& FW	Training program For Accountants of FPO	01							**20**
Soil Science										
April	F& FW	Techniques of improving fertility status of soil	01							**20**
May	F& FW	Techniques of Soil Sample for Testing	01							**20**
Jun	F& FW	Application of fertilizers based on soil health card								
Sept	F& FW	Foliar application of nutrients in field crops based on soil testing	01							**20**
Dec.	F& FW	Foliar application of Water Soluble Fertilizer in Vegetable crops	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										
August	RY	Quality Seed Production of Wheat	05							20
September	RY	Organic farming of Chickpea	05							20
Horticulture										
July	RY	Various propagation techniques involved in raising nursery of fruit plants	10							20
Nov	RY	Seed Production Technologyof Onion & Post Harvesting Handling of seeds	10							20
Livestock production										
	RY	Poultry Production and	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	
		management								
Home Science										
	RY	Value addition of palas leaves and Flowers.	01							**20**
	RY	Training on tailoring for rural girls and women	01							**20**
Plant Protection										
July	RY	Bio Fertilizer & Bio-pesticide production	05							25
Oct	RY	Mushroom Production	05							20
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
May	RY	Soil Testing Through DIGITAL SOIL TESTING MINI LAB	01							**20**

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	IS	Recent Agronomic Interventions for Kharif field crops	01							20
October	IS	Recent Agronomic Interventions for Rabi field crops	01							20
Horticulture										
Sept	IS	Recent technologies in high valued horticultural crops for enhancing farmers income.	02							**20**
December	IS	Natural Farming in Horticultural crops	02							20
Livestock production										
	IS	Selection, Care and handling of hatching eggs and chicks	02							**20**
Home Science	IS	Training for Anganwadi workers	02							**20**
Plant Protection										
July	IS	Integrated pest management	02							**20**
Oct	IS	Integrated pest management	02							**20**
Agriculture Extension (Capacity Building and Group Dynamics)										
May	FPO Director, CEOs, and Accountants	Agriculture Extension Approaches in FPO	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	
		Business Management								

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	Climate Resilient Technologies for field crops	Increasing production and productivity of crops	01		**01**							**20**	
2	Crop Diversification	Increasing production and productivity of crops	01		**01**							**20**	
3	Irrigation management in Rabi crops	Increasing production and productivity of crops	01		**01**							**20**	
4	Organic crop production Practices in Kharif crops	Increasing production and productivity of crops	01		**01**							**20**	

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	21									311
Kisan Mela	01									Mass
Kisan Ghosthi	28									450
Exhibition	4									400
Film Show	25									250
Method Demonstrations	12									125
Farmers Seminar	6									345
Workshop	5									400
Group meetings	16									230
Lectures delivered as resource persons	68									350
Newspaper coverage	38									1000
Radio talks	4									0
TV talks	4									0
Popular articles	8									0
Extension Literature	34									1000
Advisory Services	546									506
Scientific visit to farmers field	59									240

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers visit to KVK	14000									14000
Diagnostic visits	31									40
Exposure visits	38									140
Ex-trainees Sammelan	7									190
Soil health Camp	10									160
Animal Health Camp	6									120
Agri mobile clinic	0									0
Soil test campaigns	06									120
Farm Science Club Conveners meet	5									185
Self Help Group Conveners meetings	12									90
Mahila Mandals Conveners meetings	2									80
Celebration of important days (specify)	10									240
Others (pl. specify)	18									150
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
Cereals	Rice	IR-64	66
		Govind	15
		JR-10	58
		JR-81	57
		Pant Dhan-28	9
		Pant Dhan-11	10
		Bauna Dubraj	3
		Bauna Safari	3
		Pusa Sugandh 5	1
	Wheat	DBW-303	60
		DBW 332	20
		DBW-187	193
		DDW 55	40
		JW 3465	20
		JW 3211	8
		JW 3288	10
		GW 322	165
		HI 1544	43
		HI 1634	60
		K 1317	78
		K 1616	40

		C 306	33
	Barley	DWRB-137	38
		DWRB-182	30
Pulses	Blackgram	IPU 13-1	10
		IPU 11-02	10
		Indira Urd 1	10
	Chickpea	JG 36	23
		JG 24	5
		RVG 204	10
	Lentil	IPL 534	10
		RVL 11-05	15
	Field Pea	IPFD 11-05	5
Oilseeds	Sesame	GT 6	5.5
		GT 5	5
	Mustard	Pusa mahak	0.4
		PM 28	1
		PM 30	1
		DRMRIJ 31	109
		NRCHB-101	1
		DRMR 150-35	5
		DRMR 1165-40	7
		RH 725	15
		RH 761	8
Vegetables	Tomato	Kashi Aman, Kashi Adarsh	0.05
	Brinjal	Kashi Taru,.NB5	0.05
	Okra	Kashi Vibhuti, Azad-1	0.50
	Cowpea	Kashi Nidhi	0.15
	Spinach	All green	0.25
	Radish	Japanese white/VRR-1	0.05
	Onion	Agri Found Light Red, Bhima Shakti	0.50
	Pea	Kashi Nandini, Kashi Smridhi	1.50
	Pumpkin	Azad Harit	0.02
	Sponge gourd	S-1	0.02
	Bottlegourd	Kasha Ganga	0.02
	Bittergourd	Kashi Harit	0.02

FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
Spices	Chillies	Kashi Anmol	0.05
	Turmeric	Pant Pitambh	2
	Zinger	Suruchi	0.5
	Coriander	Pant Haritima	1.0
	Fenugreek	Pusa Early Bunching, Kasuri	0.25
	Garlic	G-282	2.0
Plantation crops		-	-
Floriculture	Marigold	Pusa Basanti & Pusa Narangi	0.02
Forest species	Harr		200
	Bahera		200
	Chironji		500
	Sagon		200
	Shisham		200
	Tendu		200
	Kaintha		200
	Bamboo		500
	Mahua		200
Fruits	Mango Grafted	Dushehari, langra, Amarpali	200
	Mango Seedling	Seedling	500
	Aonla Budded	NA-7 & NA-6	500
	Aonla seedling Karounda seedling	Seedling Pant Manohar, Pant Swarna	1500 1200
	Lime Budded	KagziLime, Seedless	500
	Lemon seedling	Kagzi	500
	Papaya seedling	Coorg Honey Dew/ Arka Prabhat	1500
	Guava budded	Apple colour and AllahabadiSafeda/Lalit	200
	Guava seedlings	Apple colour and AllahabadiSafeda	1000
	Pomegrannate	Bhagua	200
	Custard Apple	Dharur-6	200
	Jack fruit	Khwaja	200
	Munga(Morringa)	PKM-2	200

	Passion fruit		300
Ornamental crops	Manokamani		150
	Chandani		200
	Chameli		100
	Gurhal		250
	Ficus		50
	Croton		200
	Bottle palm		200
	Arecapalm		50
	Coleus		400
	Morpankhi		200
	Rose		100
	Fire Bush		100
	Mussenda		100
	Ixora		100
	Areliya		50
	Clerodendron(Crimson red)		50
Vegetables	Tomato	Kashi Aman,KashiAdarsh	60000
	Brinjal	Kashi Taru, NB-5	50000
	Chillies	Kashi Anmol	50000
	Cabbage	Golden Acre, Mukta	5000
	Cauliflower	Pusa Shubra, Snowball-16	15000
	Broccoli	Fiasta	5000
	Red Cabbage	Primro	2000
	Onion	Agri Found Light Red	250000
	Capsicum	California wonder	2000

Bio-products

Sl. No.	**Product Name**	**Species**	**Quantity**	
			No	**(kg)**
BIOFERTILIZERS				
1	Vermicompost			2500
2	NADEP			100
3		Ghanjeevamrit,		850
4		Traljeevamrit		650 lit.
5		Beejamrit		10 lit
6		Panchgavy		50 Lit
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides	Neemastra, Brahmastra, Agniastra		1100 lit.

Mushroom Production				
	Mushroom Seed production and Supply			460
	Fresh Mushroom Production and Supply			250

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.	**Farmers Registration on Kisan Sarathi Portal**		100000-120000 Farmers
2.	KVK AE-MPR Uploading		12
3.	ICAR-KVK News Network Updating		As per Requirements
4.	KVK Website Event Uploading		As Per Requirements
5.	Social media		
6.	Facebook		175
7.	WhatsApp		175
8.	Instagram		175
9.	Twitter etc.		175
10.	Internet YouTube		25

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			

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			

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)

1. Name of Flagship programmes:- ARYA Project

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Feb.2024	Exposure visit	50
April -2024	Rural youth workshop (Agri.entrepreneur based)	65
July- 2024	Training & Unit Establishment	50
August-2024	Training & Unit Establishment	50
September - 2024	Training & Unit Establishment	50
October - 2024	Training & Unit Establishment	50

2. Name of Flagship programmes:-Natural farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January to December-2024	Awareness programme	15
July & November -2024	Demonstration	12
July to October-2024	Training	10
August to December-2024	Exposure visit	05

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 Sehore

Year of sanction: 1999

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Mr. Dharmendra	7000398271	8883928179	crdekvksehore@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	Mr. Dharmendra	Scientist	Ag. Extn.	Level-10	11/03/2019	2019	8889469911	lalu.khandwa@gmail.com	
2	Subject Matter Specialist	Mr. Sandeep Todwal	Scientist	Soil Science	Level-10	16/12/2010	2010	9893470882	sandeeptodwal292gmail.com	
3	Subject Matter Specialist	Mr. Devendra Patil	Scientist	Agronomy	Level-10	26/12/2017	2017	8827176184	dpatil889@gmail.com	
4	Subject Matter Specialist	Mr. Deepak Kushwah	Scientist	Plant Protection	Level-10	01/01/2018	2018	8840485018	deep.bhu1989@gmail.com	
5	Subject Matter Specialist (Horticulture)	Vacant								
6	Subject Matter Specialist (Animal Husbandry)	Vacant								
7	Programme Assistant	Dr. Kusum Shukhwal	Programme Assistant	Home Science	Level- 6	05/02/2019	2019	8005660728	kusumsukhwal90@gmail.com	
8	Computer Programmer/ Programme Assistant	Mr. Akshay Kalkar	Programme Assistant	Compuer	Level- 6	01/01/2018	2018	8518018553	akshaykalkar26@gmail.com	
10	Farm Manager	Mr. Pawan Jat	Farm Manager	Farm Manager	Level- 6	17/12/2021	2021	6263596949	pawanjat5383@gmail.com	
11	Assistant	Mr Shashikant Harde	Assitant	Accounts	Level- 6	01/08/2013	2013	8103505734	harde.shashikant@gmail.com	
12	Jr. Stenographer / Comp. Operator	Mr. Bhanu Pal Singh	Stenographer	Stenographer	Level- 4	25/01/2008	2008	8962156357	bhanukvk10@gmail.com	
13	Driver	Mr. Pradip Singh Rajput	Driver	Driver	Level- 3	18/08/2003	2003	9425661497	pradeepsinghrajput979@gmail.com	
14	Driver	Mr. Satish Upadhyay	Driver	Driver	Level- 3	04/03/2019	2019	9111066262	-	
15	Supporting staff	Mr. Ravishanker Raikwar	Office Attendant	Office Attendant	Level- 1	01/03/2001	2001	9993420677	-	
16	Supporting staff	Mr. Nirmal Kumar	Office Attendant	Office Attendant	Level- 1	25/08/2006	2006	9826998693	-	

1.3 Total land with KVK (in ha): 18.68

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2	Under Demonstration Units	0.5
3	Under Crops	12.5
4	Orchard/Agro-forestry	3.0
5	Others (specify) Crop cafeteria,	0.40
	Waste land-Nala Pond etc	1.78
Total		**18.68**

1.3 Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	0.50
3.	Under Crops	12.50
4.	Orchard/Agro-forestry	3.00
5.	Others (specify)	1.78
Total-		**18.68**

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	2005-06	500.00		-	-	-
2.	Farmers Hostel	ICAR	2007-08	305.00		-	-	-
3.	Staff Quarters (6)	ICAR	2007-08	400.00		-	-	-
4.	Fencing	ICAR	2007-08	3250.00		-	-	-
5	Threshing floor	ICAR	2004-05	225.00		-	-	-
6	Implement Shed	-	-	-	-	-	-	-
7	Poly House	-	-	-	-	-	-	-
8	Net House	-	-	-	-	-	-	-
9	Azola Unit	ICAR	2016-17	16.7	40000.00	-	-	-
10	Demonstration Units	ICAR	2007-08	160.0		-	-	-
11	Godown	ICAR	2007-08	60		-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Marshal	-	-	-	-
Motor Cycle	2000	0.00	-	Condemn
Bolero	2017	7,99,945.00	151636	Good condition

C) Equipments& AV aids

Name of the equipment	No.	Year of purchase	Cost (Rs.)	Present status
Projector	02	2013-14	-	Good condition
Xerox Machine	01	2016	-	Good condition
Generator	01	2016-17	-	Good condition
Video Camera	01	2016-17	-	Good condition
Computer, Laser Printer	02	2012& 2017-18	-	Good condition
UPS 600 VA	01	2016-17	-	Good condition
Stabilizer 2 KVA	01	2016-17	-	Good condition

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

Location:-

The district is situated at central part of Madhya Pradesh with longitude and latitude of 22°33”49’ to 23°41”02’North and 76°26”55 to78°01”59’ on East respectively. It is stands in the foothills of *Vindhyachal Range* in the middle of *Malwa* region The District is spread over an area of 6,578 square km and it is surrounded by six district viz.. Bhopal, Raisen, Hoshangabad, Dewas, Shajapur and Raigarh. Likewise the district is well connected to the Western Railway from Bhopal to Ratlam.

Demographic Profile:

District Sehore has total population **1311332** as per census 2011. The literacy level in the district is **71%**. The total SC and ST population comes in tune of **31.78%** in the district as per census 2011. Tehsil wise population details given in the table –

Name of the Tehsil	Population				SC		ST		General		Total	
	M	F	CH*	Total	No. of household	No. of Members	No. of household	No. of Members	No. of household	No. of Members	No. of household	No. of Members
Sehore	143539	131539	38501	275078	9646	48229	2226	11128	41227	215721	53098	275078
Ashta	131462	122000	36869	253462	13680	68399	1161	5806	35597	179257	50438	253462

Ichhawar	84198	78109	26299	162307	6801	34006	6677	33384	18628	94917	32106	162307
Nasrullaganj	91834	84429	28487	176263	5352	26760	9726	48630	17909	100873	32987	176263
Budni	48652	43254	12768	91906	2907	14535	2659	13296	13450	64075	19016	91906
Shyampur	80246	72108	24099	152354	5802	29008	452	2262	23870	121084	30124	152354
Jawar	56142	52319	16139	108461	8022	40109	1229	6147	12953	62205	22204	108461
Rehti	47670	43831	14267	91501	2047	10235	4972	24859	10319	56407	17338	91501
Total	**683743**	**627589**	**197429**	**1311332**	**54256**	**271281**	**29102**	**145512**	**173952**	**894539**	**257311**	**1311332**

Source: Census -2011)

Topography and Agro climatic characteristic:-

The district fall in the Vindhya plateau, as the zone is characterized by black soil mostly medium in depth. The major crop are grown in the region are Soybean and Wheat crop. The district has about 60% area is under medium black soil (30 - 60 cm depth) and about 20% deep (more than 60 cm depth) and about 20 % shallow soil (30 cm depth). The average mean sea level is falls in the range of 457 to 609 meter.

Soil Status:-

The district characterized by black *vertisols* mostly medium in depth, 60% area comes under medium black soil (30 to 60 cm depth) and about 20% deep black (more than 60 cm depth) and approximately 20% shallow black soil (30 cm depth). The soils are low in nitrogen (N), medium in phosphorus (P2O5) and medium in potash (K2O). About 40 % soils of Sehore, Budani and Ashta have been reported deficient in micro nutrient especially Zink (Zn), Sulpher (S) and Boron (B), soil pH rage in the scale of 7.3 to 7.8 making the soil fit for cultivation of wide range of crops.

Climate and Meteorology:-

The district experiences the sub tropical climate. The annual rainfall of the district is about 1260 mm, which is mostly concentrated during the month of July and August some time it extends up to end September. The winter rains are also received but the frequency and timing are uncertain and they are undependable under normal rainfall situation.

The summers are very hot particularly during the day time and the winters are very cold. *Rabi* cropping becomes very difficult mostly depends on available soil moisture. If the rain recedes much earlier in the *Kharif* season, the *Rabi* prospects shows down trend. Average temperature in summer varies from 250C to 450C and average temperature in winter from 100C to 250C.

Average Annual Rainfall (mm)

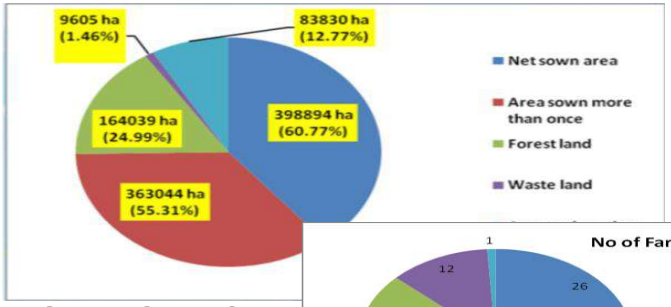
S.No.	Blocks	Year wise rainfall (mm)					(2018-19 to 2022-23)
		2018-19	2019-20	2020-21	2021-22	2022-23	Average
1	Sehore	1075.20	**1820.8**	1328.70	1004.40	1036.35	**1253.09**
2	Ashta	789.65	1607.8	1325.30	952.00	984.50	**1131.85**
3	Ichhawar	931.00	1740.0	1425.00	1080.30	1135.50	**1262.36**
4	Budani	926.60	1729.8	1727.70	1050.00	1165.50	**1319.92**
5	Nasrullaganj	603.2	1937.0	1277.00	1108.00	1054.00	**1195.84**
Average		**864.29**	**1767.08**	**1416.74**	**1038.94**	**1075.13**	**1232.61**

Dept. of FW&AD, Sehore)

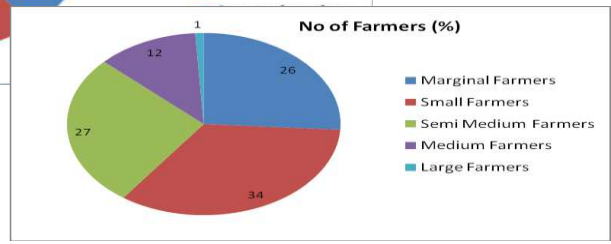
Land use pattern:- The total arable land of Sehore district is 398894 ha, out of which, the irrigated area is about 68%. The major crop grown in *Kharif* season are Soybean, Rice, Maize, Jowar, Pigeon pea and Wheat, Chickpea and sugarcane are the popular crops in *Rabi* season.

Land Use Pattern:-

S. No.	Particulars	Details
01	Total geographical area (ha)	656368
02	Net sown area (ha)	398894
03	Area sown more than once in the year (ha)	363044
04	Gross cropped area (ha)	761938
05	Forest land (ha)	164039
06	Waste land (ha)	9605
07	Land under other uses (ha)	83830



(Source: Land record)



Details of land holdings in the district (2017) – The size of operational holding plays an important role in understanding the prevailing farming system, dependent livelihoods, quality of rural life and corresponding farm economy of the any area. Higher occurrence of smaller holdings, skewed land distribution among Landholders, land capabilities and its. utilization, quality of land and its current status are some of the key Farameters determines the pace of development in agriculture sector. The district >62% of the land owners posses 49.68% land belonging to small and medium category of the farmers, >18% of the marginal farmers owns only a meager 6%, while 19% of the bigger land owners posses 42% land. The skewed ownership aggravates the problems and production potential of the district.

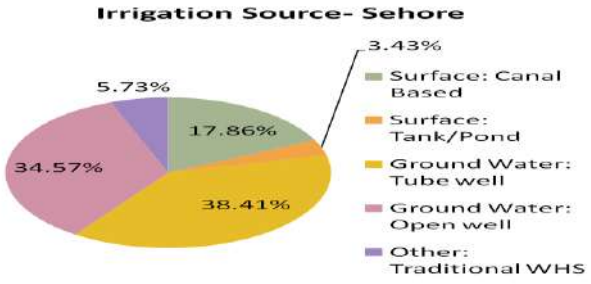
Type of Farmers	No.	Percentage	Area in (ha.)	Percentage
Marginal Farmers (Less than 1 ha.)	64684	26.0	25221	6.3
Small Farmers (1-2 ha.)	72277	34.0	82299	20.6
Semi Medium Farmers (2-4 ha.)	45397	27.0	114015	28.5
Medium Farmers (4-10 ha.)	20315	12.0	136461	34.2
Large Farmers (More than 10 ha.)	1486	0.9	40898	10.2
Total	**204159**	**-**	**398894**	**-**

Source- DPO, Sehore

Irrigation : -The district has good potential for irrigation through different sources, though there are no major or medium irrigation scheme in the district, however, minor lift irrigation schemes, dug well, water harvesting structures, seasonal rivers and other sources provides water for irrigation. The water use and its efficiency, however, remain under question

Irrigation potential of district: -

S No	Sources	Area (ha)	%
A	***Surface Irrigation***		
1	*Canal Based*	*69607*	*17.86*
2	*Tanks/Ponds/ Reservoirs*	*13365.7*	*3.43*
	Total	*82972.7*	*21.28*
B	***Ground Water***		
1	*Tube wells*	*124824*	*38.41*
2	*Open Wells*	*97755*	*34.57*



Total		*222579*	*72.99*
C	***Other Sources- Traditional WHS***	*22136*	*5.73*
Grand Total (A+B+C)		**327687.73**	**100**

Production and productivity of major crop:-

Sehore is developing district of the state & important district for agriculture point of view. Here major crops grown in the district are Soybean, Maize, Paddy in Kharif however wheat & Chickpea in Rabi season. The prominent cropping system prevails in the district are Soybean – Wheat, Soybean – Chickpea and Paddy – Wheat. The productivity of the major crop is not better since the crops are dependent on rains. The Sharbati Wheat of the district is very popular in producing good quantum of wheat which supplying to the western part of the country. Present production and productivity of major crop in the district is given as an under:-

Present status of major crops in Sehore

Year	Soybean			Paddy			Pigeon pea			Wheat			Chickpea			Green Gram		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
2018-19	290.00	390.63	1347.00	32.90	118.44	3600.00	6.60	9.11	1380.00	245.00	882.00	3600.0	107.80	199.43	1850.0	13385	13117	979
2019-20	343.44	257.58	750.0	33.79	135.16	4000.0	2.85	2.42	850.0	341.4	1604.8	4700.0	94.0	188.00	1890.0	13455	13120	985
2020-21	315.39	509.51	1450	34.10	156.86	4600	1.7	1.9	1150	333.55	1500.97	4500	52.19	93..94	1800	74442	111142	1493
2021-22	282.18	372.47	1320	51.45	237.69	4620	1-80	1.4	815	335.56	1689.2	5034	47.14	87.68	1860	88510	129580	1470
2022-23	285.70	377.10	1320	47.50	219.50	4620	1.80	1.50	815	342.00	1658.00	4850	53.50	108.7	2020	80890	101597	1250
Average	303.34	381.46	1237.40	39.95	173.53	4288.00	5846.79	3.27	1002.00	319.50	1466.99	4536.80	70.93	145.95	1884.00	54136.40	73711.20	1235.40

A = Area (000ha) **P = Production (000 Ton)** **Y = Productivity (kg/ha.)**

Horticulture:-

Beside the area under field crops, significant area comes under the horticultural crops; the district register area under different horticulture is 40831.81 ha with an aggregate production of 617969.37 MT. The vegetable production from around 20182 ha of land under vegetable cultivation is a little more than 373560 MT. Similarly the good amount of land comes under fruit crops *i.e.*7069 ha and production is about 156167 MT. Beside this there are sizable land comes under spices 12242 ha and production is 74325 MTs similarly 946 ha area comes under flower cultivation and 9994 MTs and medicinal plants 392 ha and 1923 MT production

Area and Production of Horticultural Crops of Sehore district *(Area in ha, production in MT)*

Year	Fruit		Vegetable		Spices		Flowers		Medicinal	
	Area (ha.)	Production	Area	Production	Area	Production	Area	Production	Area	Production
2018-19	4934.00	106689.0	15518	290043.0	9555.0	58957.0	555.0	5804.0	11.30	42.13
2019-20	5149.0	114471.0	13158.0	229360.0	9582.0	59242.0	555.0	5813.0	11.30	42.13
2020-21	5205.2	118945.0	13956.0	232850.0	1062.0	60145.0	789	8410	212	1625
2021-22	7069	156167	20182	375560	12242	74325	946	9994	392	1923

(Source: Department of Horticulture, Sehore)

Details of Horticulture Nursery available in the district

S. No.	Name of Block	Location	Area (ha)	Current Status
1	**Sehore**	Mahuakheda	7.63	Mango, Aonla Citrus Guava
2	**Asta**	Asta	2.00	Guava, Citrus, Ratanjot
		Gadrakhedi	5.00	-
3	**Ichhawar**	Jamli	16.00	Mango, Guava, Citrus, Neem
4	**Budni**	Peelikarar	5.00	Mango, Guava, Citrus, Neem
5	**Nasrullganj**	Satrana	5.00	Mango,Guava, Citrus, Neem, Jackfruit, Neem

Source- DOH Sehore

Livestock :-

The economy of Sehore district is primarily agriculture and livestock based. There is good quantum of animal resources in the district. As the metro like Bhopal is near to Sehore district hence, the scope for the increas e the production potentiality of the animals. Simultaneously additional employments may also be generating for the community. As forest is disappeared rapidly so that there is considerable decrease in the fodder production as mostly there is the practice of the open grazing in the rural areas. With the continues deficit in rainfall the possibilities of rain water conservation above and below the ground is decreased since traditional tanks are also neglected. In the absences of effective rainfall fodder production and
water for drinking to animals is very difficult in the region.

(Source: Dept. of Animal Husbandry and Veterinary Services)

lock	Small animals					Large animals		
	Poultry	**Ducks**	**Pigs**	**Goat**	**Sheep**	**Cow**	**Buffalo**	**Draught animal**
Sehore	242585	0	326	20472	0	60245	46498	5051
Ashta	21258	0	384	31535	90	70905	59560	0
Ichawar	18650	0	276	25427	0	82479	37612	0
Nasrullaganj	15310	0	443	17908	0	59771	37211	0
Budhni	5824	0	0	9793	0	34868	14205	5023
Total	**303627**	**0**	**1429**	**105135**	**90**	**308268**	**195086**	**10074**

Production of Animal produces in the District

S.No.	Product	Production
01	Milk	155 Lakh Lit.
02	Meat	407.3 MT
03	Eggs	106.46 Lakh No.

(Source: Dept. of Animal Husbandry and Veterinary Services)

Fisheries:-

Sehore district has also got a good potential for fisheries. Fisheries can be a viable option for employment generation in various villages, if practiced technically. The district has got 92 village ponds and 3 irrigation tanks with total area 404177 ha. & Production 12.034 MT.

Water body	Area (ha.)	Production (Qtl.)	Productivity (Qtl./ha.)
Ponds (self)	4844.40	89621.4	18.5
Ponds (Irrigation Department)	3520.26	5984.442	1.7
Total	**8364.66**	**95605.84**	**10.1**

SWOT ANALYSIS -

SWOT Analysis is a strategic planning tool used to evaluate the Strengths, Weaknesses, Opportunities, and Threats involved in project or programme. It involves specifying the objective of the project and identifying the internal and external factors that are favorable and unfavorable to achieving that objective.

STRENGTH

There are number of strengths in the district, which need to be further strengthened and optimally harnessed to remove the existing state of poverty, backwardness and underdevelopment:

- Suitability of climate and soil (medium black) for various, Cereals, Oilseeds (soybean) Pulses & Horticultural crops.
- Excellent institutional support- Agriculture collage, Krishi Vigyan Kendra, Farm machinery training & testing centre etc.
- 78.2 % area under irrigation.
- 60.29 % area under cultivation of total geographical area.
- Sufficient average rainfall (1261.2 mm.)
- Sufficient availability of Agriculture labors.
- Good marketing connectivity (Road & rail etc.) to the metro cities.
- Quality wheat producing district.
- Existing Poultry and milk industries well established and functional.

WEAKNESS

Like in all the places, there are a large number of weaknesses in the district, which is responsible, to an extent, for its backwardness. Here's a list of some of the weaknesses of the district comprising of both the problems and the constraints: -

Unavailability of quality inputs i.e. seeds & planting material and their quality and timely availability.

- Proper marketing channels for commodity chain are not well developed.
- Inadequate power (electricity) supply limiting to obtain optimum production potential.
- Focus on post harvest and storage management is very low.
- Undulated land.
- Diversifications of the farming system is very low
- Lack of awareness toward market demand at farmer's level.
- Numbers of small and marginal farmers are more which is limiting to take innovation / diversification.
- Farmers' attitude and traditional practices for the farming limiting to get optimum production potential.

OPPORTUNITIES

If one look at the strengths that are there in the district and observe the weaknesses of the district, one can easily find a lot of opportunity areas to work on, to take the district of the path of development. Here are some of the 'opportunities', clearly evident from the profile of the district, the strengths that operate in favour of the district and the weaknesses that one need to work towards addressing:

- Potential for crop/ agriculture and other components of the farming system diversification.
- Establishment of the education hubs (for agriculture- technology and latest Technical knows how).
- Strengthen the existing supply system and organize up-gradation course for the staff.
- Opportunity cost for the labour is comparatively low and labour available.
- Scope for organic cultivation enough quantity of the required material required for the same is available in sufficient quantity.
- Floriculture- an option as district is near to metro.
- Gap in production potential of the prominent crops.
- Easy e- extension in rural areas due to IT revolution in the country.
- Improving purchasing capacity.
- The dairy and diary product can be an opportunity for the marginal and small farmers.
- The farm mechanization can be enhance as the required industries are readily available as and required for.
- Scope exists to increase the returns to farmers by establishing small agro processing units in production catchments.
- Scope for entrepreneurship development for custom hiring of high capacity and costly farm machinery.
-

Threats –

- Over exploitation of the ground water and subsequent decline in water table.
- Small & reducing size of land holdings with associates constraints of being Resource poor, low risk taking abilities, thereby extension of new technologies further difficult.
- Natural calamities like draughts, pest and disease appearance.
- Deterioration in soil health.
- Biological and environmental degradation.

Major Problems in District :-

- Lack of high yielding varieties/ hybrids in field crops.
- Poor seed replacement rate & negligible seed treatment.
- Heavy incidence of insect & diseases.
- Heavy infestation of weeds in Kharif crops.
- Imbalance use of fertilizer declining soil health.
- Lack of soil & water conservation techniques.
- Low input use efficiency.
- Slow crop diversification under Horticultural crop and Integrated Farming System
- Poor adoption of latest technologies at farmers part.
- High post harvest losses (10 – 12 % in grain, 25 – 30 % in vegetable & fruit crops).
- Poor credit support particularly small & marginal farmers.
- Weak transfer of technology system.

DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
SEHORE	Kothara Pipalya	2016	Nasrullaganj	68 Km.	1486	355
SEHORE	Bijlon	2017	Sehore	50 Km	2141	424
SEHORE	NarsinghKheda	2018	Ichhawar	25 Km.	2008	407
SEHORE	Gawakheda	2019	Ashta	29 Km.	2255	217
SEHORE	Bawadiya Chor	2021	Ichhawar	28 Km.	1238	238

Details of Operational area / Villages (31st December, 2023)

S.No	KVK	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
01	SEHORE	Ichhawar	Narsinghkheda	➢ Soybean ➢ Maize ➢ Paddy ➢ Black Gram ➢ Wheat ➢ Chickpea ➢ Lentil ➢ Green Gram ➢ Dairy ➢ Poultry ➢ Animal Husbandry	**Soil health** • High Soil erosion due to undulation & non bunding of farms • Deterioration in Soil health due to adoption of Soybean – Wheat , Paddy – Wheat, Soybean- Chickpea cropping system • Deterioration in soil health due to imbalance use of plant nutrient • Lack of knowledge about bio fertilizer & its application Unavailability of high yielding varieties/ hybrids in field crops Low seed replacement rate in major Crops Lack of awareness about seed treatment Weed infestation in Crops Low yield due to Old varieties, No use of Recommended Package of Practices Low water use efficiency Low fertilizer use efficiency due to imbalance use of fertilizer Heavy infestation of insect & disease Slow crop diversification in Horticultural crops ption of farm mechanization High post harvest losses in grain, vegetable & Fruits crops Poor adoption of technology by Farmers Weed infestation of crops Water stress in critical stages of plant growth	➢ Soil Health Management, Crop management Practices (CMP) ➢ Horticulture & Végétales Corps (H & VC) ➢ Animal Science (A S) ➢ Integrated Plant Protection Techniques (IPPT) ➢ Women in Agriculture. (W A) ➢ Implements & Farm Machinery (I & FM) ➢ Natural Resource Management (NRM) ➢ Livelihood & Nutritional Security ➢ Doubling Farmers income
02	SEHORE		Golukhedi			
03	SEHORE		Bawadiya Chor			
04	SEHORE	Asta	Gular Chhapari			
05	SEHORE		Gwakheda			
06	SEHORE		BheelKhedi			
07	SEHORE		Bafapur			
08	SEHORE	Sehore	Mehtwada			
09	SEHORE		Bijlon			
10	SEHORE		Heerapur			
11	SEHORE		Ramakhedi			
12	SEHORE		Thuna Pachama			
13	SEHORE		Bichhia			
14	SEHORE	Nasrullaganj	Kothra Pipalya & Kankaria			

THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	THRUST AREA
SEHORE	Soil Health Management, Crop management Practices (CMP)

SEHORE	Horticulture & Végétales Corps (H & VC)
SEHORE	Animal Science (A S)
SEHORE	Integrated Plant Protection Techniques (IPPT)
SEHORE	Women in Agriculture. (W A)
SEHORE	Implements & Farm Machinery (I & FM)
SEHORE	Natural Resource Management (NRM)
SEHORE	Livelihood & Nutritional Security
SEHORE	Doubling Farmers income by 2021-22
SEHORE	Resource Management (Water & Energy saving)
SEHORE	Introduction of recommended improved varieties
SEHORE	Processing, Post harvest and Storage facilities.
SEHORE	Conservation Agriculture Technologies
SEHORE	Application of Integrated Technology (IWM, ICM)

PROBLEM IDENTIFIED by KVK –

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
SEHORE	**Soil health -** High Soil erosion due to undulation & non bunding of farms Deterioration in Soil health due to adoption of Soybean – Wheat , Paddy – Wheat, Soybean- Chickpea cropping system Deterioration in soil health due to imbalance use of plant nutrient Lack of knowledge about bio fertilizer & its application	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Unavailability of high yielding varieties/ hybrids in field crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Low seed replacement rate in major Crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Lack of awareness about seed treatment	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Weed infestation in Crops	Field visit, Individual contact	Problem are common in entire district
SEHORE	Low yield due to Old varieties, No use of Recommended Package of Practices	PRA, Field visit, Individual contact	Gawakheda, Bijlon, Narsinghkheda Kothra Pipalya
SEHORE	Low water use efficiency	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Low fertilizer use efficiency due to imbalance use of fertilizer	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Heavy infestation of insect & disease	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Slow crop diversification in Horticultural crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Slow adoption of farm mechanization	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	High post harvest losses in grain, vegetable & Fruits crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district

SEHORE	Poor adoption of technology by Farmers	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Weed infestation of crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Water stress in critical stages of plant growth	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire 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 Vindhyan Plateau (AES- I)	• Under block covered Sehore, Asta and Ichhawar total area 409.494 thousand ha, farming system existing Agriculture+Animal husbandry, Agriculture+Horticulture+Animal husbandry
2.	Central Narmada Valley	• Under block covered Budani & Nasrullaganj total area 246.874 thousand ha, farming system existing Agriculture+Animal husbandry, Agriculture+Horticulture+Animal husbandry

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Vindhyan Plateau	The district fall in the Vindhya plateau, as the zone is characterized by black soil mostly medium in depth. The major crop are grown in the region are Soybean and Wheat crop. The district has about 60% area is under medium black soil (30 - 60 cm depth) and about 20% deep (more than 60 cm depth) and about 20 % shallow soil (30 cm depth). The average mean sea level is falls in the range of 457 to 609 meter.

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

Strength	Weakness	Opportunities	Threats
• Suitability of climate and soil (medium black) for various, Cereals, Oilseeds (soybean) Pulses & Horticultural crops. • Excellent institutional support- Agriculture collage, Krishi Vigyan Kendra, Farm machinery training & testing centre etc. • 78.2 % area under irrigation. • 60.29 % area under cultivation of total geographical area. • Sufficient average rainfall (1261.2 mm.) • Sufficient availability of Agriculture labors. • Good marketing connectivity (Road & rail etc.) to the metro cities.	• Proper marketing channels for commodity chain are not well developed. • Inadequate power (electricity) supply limiting to obtain optimum production potential. • Focus on post harvest and storage management is very low. • Undulated land. • Diversifications of the farming system is very low • Lack of awareness toward market demand at farmer's level. • Numbers of small and marginal farmers are more which is limiting to take innovation / diversification. • Farmers' attitude and traditional practices for the farming limiting to get	• Potential for crop/ agriculture and other components of the farming system diversification. • Establishment of the education hubs (for agriculture-technology and latest Technical knows how). • Strengthen the existing supply system and organize up-gradation course for the staff. • Opportunity cost for the labour is comparatively low and labour available. • Scope for organic cultivation enough quantity of the required material required for the same is available in sufficient quantity. • Floriculture- an option as district is near to metro. • Gap in production potential of the prominent crops. • Easy e- extension in rural areas due to IT revolution in the country. • Improving purchasing capacity. • The dairy and diary product can be an opportunity for the	• Over exploitation of the ground water and subsequent decline in water table. • Small & reducing size of land holdings with associates constraints of being Resource poor, low risk taking abilities, thereby • extension of new technologies further difficult. • Natural calamities like draughts, pest and disease appearance. • Deterioration in soil health. • Biological and environmental degradation.

• Quality wheat producing district. • Existing Poultry and milk industries well established and functional.	optimum production potential.	marginal and small farmers. • The farm mechanization can be enhance as the required industries are readily available as and required for. • Scope exists to increase the returns to farmers by establishing small agro processing units in production catchments. • Scope for entrepreneurship development for custom hiring of high capacity and costly farm machinery.	

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	656368
Forest	164039
Waste Land	9605
Other than cultivated area	83830
Cultivable waste and alkaline land	13000
Pastures	36200
Bushes	-
Current Fallow	400
Other Fallow	3300
Agricultural Land	408894
Area Sown	400856
Kharif	389500
Rabi	369548
Zaid	11000
Cropping Intensity	188.32 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	69607
2	Well	97755
3	Tube well	124824
4	Ponds	13365.7
5	Others	22136

Area, Production and Productivity of major crops cultivated in the district 2021-22

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Soybean	324000	509510	12.00
2	Paddy	45000	156860	46.0

3	Maize	18500	-	14.89
4	Pigeon pea	2000	190	11.50
5	Black gram	4000	-	7.00
6	Green gram	7000	111142	7.00
7	Wheat	261990	1500970	38.00
8	Chickpea	94400	93940	**16.13**

Priority / Thrust areas

S. No.	Particulars
1.	Resource Management (Water & Energy saving)
2.	Introduction of recommended improved varieties
3	Processing, Post harvest and Storage facilities.
4	Conservation Agriculture Technologies
5	Application of Integrated Technology. (IWM, ICM)

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Medium black Soil	30 to 60 cm depth (Low available N, Low to medium available P, High available K, pH range 7.2 to 8.0)	393820 ha
2	Shallow black soil	Less than 30 cm depth (Low available N, Low to medium available P, High available K, pH range 7.2 to 8.0)	131274 ha
3	deep black Soil	more than 60 cm depth (Low available N, medium available P, High available K, pH range 7.2 to 8.0)	131274 ha
4	**Total Area**		**656368 ha**

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

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

Month /Year	Rainfall (m.m.)	Temperature (^{0} C)	
		Maximum	Minimum
Jan, 2023	10.23	25.0	12.2
Feb, 2023	7.67	28.3	14.4
Mar, 2023	7.67	33.3	19.4
Apr, 2023	5.12	37.8	23.9
May, 2023	20.46	40.0	27.2
Jun, 2023	148.36	36.1	26.1
July, 2023	329.98	30.0	23.9

Aug., 2023	317.19	28.9	23.3
Sept., 2023	140.69	30.6	22.8
Oct. 2023	33.25	31.7	20.0
Nov. 2023	10.23	28.9	16.1
Dec. 2023	7.67	25.6	12.8

Production and productivity of livestock, Poultry, Fisheries etc. in the district:- (Jan 2023 to Dec, 2023)

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred/ Indigenous	308268	155 Lakh Litre	-
Buffalo	195086		-
Sheep			
Crossbred/ Indigenous	-	-	-
Goats	105135	407.30 MT	-
Pigs *Crossbred/ Indigenous*	--	---	---
Rabbits	--	--	--
Poultry			
Hens	303627	106.46 Lakh eggs	-
Turkey and others	--	--	--
Category	**Area**	**Production**	**Productivity**
Fish	8364.66 ha	95605.84 Q	10.10 Q/ha

TECHNICAL PROGRAMME

A Details of targeted mandatory activities by KVK

OFT		**FLD and CFLD**	
1		**2**	
Number of OFTs	**Number of Farmers**	**Number of FLDs**	**Number of Farmers**
17 no. & 02 no. (In progress)	190 & 65	20 no. & 01 No. (In Progress)	195 & 20

Training		**Extension Activities**	
3		**4**	
Number of Courses	**Number of Participants**	**Number of activities**	**Number of participants**
96	1800	531	11188

Seed Production (Qtl.)	**Planting material (Nos.)**
322	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.
01	Introduction of recommended improved varieties	Green gram	Low yield of green gram due to old varieties and exists varities are late mature	-	Demonstration of Green gram variety IPM 205-7 (Virat) in summer season	Improved agronomic techniques of summer green gram	-	Field day Field visit	Seed gram variety IPM 205-7 (Virat)
02	Weed management	Soybean	Low yield of soybean due to heavy infestation of weeds in early stage	Assessment of weed management in soybean .	-	-	-	Group meeting	Herbicide
03	Introduction of recommended improved varieties	Soybean	Low yield of soybean due to existing varieties eg. JS-9560, JS-2034	Assessment of soybean variety RVSM 2011-35 (RVSM-35) under soybean- wheat cropping system	-	-	-	Group meeting	Seed soybean variety RVSM 2011-35
04	Weed management	Soybean	Low yield of soybean due to heavy infestation of weeds in early stage	-	Weed management in soybean under Soybean- Wheat Cropping System	Weed management in soybean	Weed management in soybean	Field day Field visit Group meeting Method demonstration	Herbicide
05	Crop diversification	Maize	-	-	Diversification of soybean through Hybrid Maize	Diversification of soybean through Hybrid Maize	Diversification of soybean through Hybrid Maize	Field day Field visit Group meeting	Seed
06	Nutritional security	Pigeon pea	Lackof protien in daily diet and no use of waste land	-	Demonstration of pigeon pea cultivation in waste land for nutritional security.	pigeon pea cultivation in waste land	pigeon pea cultivation in waste land	Field day Field visit Group meeting	Seed
07	Ag Eng	Paddy	-	-	Demonstration of DSR Machine.	Demonstration of DSR Machine.	Demonstration of DSR Machine.	Field day Field visit Group meeting	-

08	Crop diversification	Sorghum	Not grow millet (sorghum) and exist crop not use in daily diet	Assessment of diversification through millet (Sorghum) in soybean-chickpea cropping system.	-	-	-	Group meeting	Seed
09	Weed management	Wheat	Low yield and quality of wheat due to old varities HI1544 and Lok-1	Assessment of improved wheat variety HI-1650 (Pusa Ojaswi)	-	-	-	Group meeting	seed
10	Introduction of recommended improved varieties	Wheat	Low yield of Wheat and lack of nutrition due to use of old varieties	-	Demonstration of Wheat variety HI-1634 (Pusa Ahilya)	Improved agronomic technologies of Wheat cultivation	Improved agronomic technologies of Wheat cultivation	Field day Field visit Group meeting	Wheat variety HI-1634 (Pusa Ahilya)
11	Introduction of recommended improved varieties	Chickpea	Low yield of chick pea due to use of old varieties (Vishal)	-	Demonstration of Chick pea variety RVG-204	Improved agronomic technologies of Chickpea cultivation	Improved agronomic technologies of Chickpea cultivation	Field day Field visit Group meeting	Chick pea variety RVG-204
12	SFM	Soybean	Low yield due to Imbalance use of Plant Nutrient in Soybean crop.	Assessment of Sulphur along with recommended dose of plant nutrient as per soil test value in Soybean crop.	-	-	-	Group discussion-	MOP, BentonateSulphur 90%
13	SFM	Wheat	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea	Assessment of Nano- Nitrogen technology in Hybrid Maize.	-	-	-	Group discussion-	Nano Urea
14	FM	Soybean	Low fertilizer use efficiency and high fertilizer cost	Assessment of Nano- DAP technology in Soybean crop.	-	-	-	Group discussion-	Nano DAP
15	SFM	Onion	Low fertilizer use efficiency and high fertilizer cost	Assessment of Nano- DAP technology in Vegetable crop (Onion)	-	-	-	Group discussion-	Nano DAP
16	NRM	Soybean Chickpea	High production cost of cultivation and toxicity of chemical fertilizer/ pesticide in crop and soil	-	Demonstration of Jeevamrit and Ghan Jeevamrit on growth and yield of	Natural Farming	Natural Farming	Method Demonstration & Field day	200 liter Dram, Jaggery& Chickpea flour

					Soybean & Chickpea crop				
17	SFM	Soybean	Low yield & quality due to No use of potassium nutrient	-	Demonstration of Foliar spray of potassium nutrient in soybean crop	Use and application of water soluble fertilizer in soybean crop	Use and importance of water soluble fertilizer and Nano fertilizer	Field day	NPK 00:00:50
18	NRM	Enterprises	More time consume in composting process	-	Demonstration of Bio waste decomposer for composting	Application for bio west decomposer for composting	-	Field day	Bio Waste decomposer, Drum 200 liter, Jiggery
19	SFM	Wheat	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea	-	Demonstration of Nano-Nitrogen technology in wheat crop.	Importance & use of Nano fertilizer	Use and importance of water soluble fertilizer and Nano fertilizer	Field Day and Method Demonstration	Nano Urea
20	SFM	Garlic	Low yield of Garlic crop due to no use of micronutrient	-	Demonstration of Vegetable Micronutrients Mixture on yield and quality of Garlic crop	Nutrient Management in Onion and garlic	Use and importance of water soluble fertilizer and Nano Fertilizer	Field Day	Vegetable Micronutrients Mixture
21	PLP	Okra & bitter gourd	Low yield of vegetables due to infestation of insect-pest (Average yield losses up to 15-20%)	Assessment of ITK practice for the management of insect-pest by spraying of starch, animal urin and dusting of cowdung ash in vegetables (Okra & bitter gourd)	-	-	--	-	animal urin. cowdung ash
22	PLP	Soybean & Wheat	Low yield of wheat due to infestation of root aphid (Average yield losses up to 15-20%)	Assessment of newer molecule Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed for the management of	--	-	-	-	Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed

				Root Aphid in wheat crop					
23	PLP	Garlic	Low yield of garlic due to incidence of stemphylium blight and Purple Blotch (Average yield losses up to 15-20%)	Assessment of IDM module for the management of stemphylium blight and Purple Blotch in Garlic					Pseudomonas fluorescens, metiram 55%+ pyraclostrobin 5% WDP
24	PLP	Chickpea	Low yield of chickpea due to incidence of fungal diseases (Average yield losses up to 15-20%)	Assessment of ITK practice for the management of Fungal diseases by Seed treatment with Burn Engine Oil and application with irrigation in chickpea					Burn engine oil
25	PLP	Green Gram	-	-	Demonstration IDM module for the management of yellow mosaic in summer green	IDM module for the management of yellow mosaic in summer green	-	Field Day, Field visit	Shikha (IPM-410-3), Thiomithoxam 30% SC, yellow sticky trap, Imidachloroprid 17.8 % SL
26	PLP	Maize	-	-	Demonstration IPM module for the management of stem borer and Fall Army Warm in maize	IPM module for the management of stem borer and Fall Army Warm in maize	-	Field day , Method Demonstration	Thiomithoxam 30% SC, pheromone trap, Bacillus thuringiensis, Lamdacylothrin % + Chlorantraniliprole 10% ZC
27	PLP	Soybean	-	-	Demonstration IPM module for the management of Girdle Beetle and defoliator in Soybean crop.	IPM module for the management of Girdle Beetle and defoliator in Soybean crop.	-	Field visit , Field day	Imidachloroprid (goucho) 48% FS, Pheromone trap. Bird purcher, Lamdacylothrin % + Chlorantraniliprole 10% ZC
28	PLP	Chickpea	-	-	Demonstration	IDM module for	-	Group	*Trichodurma*

					IDM module for the management of Wilt, root rot & Collar rot disease in chickpea	the management of Wilt, root rot & Collar rot disease in chickpea		Discussion	*viridae*
29	PLP	Chickpea	-	-	Demonstration of IPM module for the management of gram pod borer in chickpea	IPM module for the management of gram pod borer in chickpea	-	Field day, Field Visit	light trap, pheromone trap, *Bacillus thuringiensis var. Kurstaki*, Emmamectin benzoate 5%SG
30	PLP	Soybean, chickpea	-	-	Demonstration of Neemastra, Brahmastra and Agni Astra on insect –pest of Soybean & Chickpea crop	Neemastra, Brahmastra and Agni Astra on insect –pest of Soybean & Chickpea crop	-	Field Visit, Field day	Neemastra, Brahmastra, Agni Astra

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**
SFM	01	02	-	-	01	-	-	-	-	04
CMP	0	01	-	-	-	-	-	-	-	2
Varietal Assessment	02	01	-	-	-	-	-	-	-	2
Plant Protection	-	01	-	01	01	-	-	-	-	03
TOTAL										

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								

Details of On Farm Trial (OFT)-

Agronomy:-

OFT-1

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of weed management in soybean	
Problem diagnosed	Low yield of soybean due to heavy infestation of weeds in early stage	
Farmers' Practices	Apply Post Emergence herbicide	
Details of technologies selectedfor assessment	T1	Pre emergence herbicide Pendimethalin 30 EC@1.0 liter / ha
	T2	Preemergence herbicide Sulfentrazone + Clomazone 58 % WP (F 8072) premix @ 725 g a.i./ha
Source of technology	Indian Institute of Soybean Research, Indore-2018	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	7500	
Critical input	7500	
Performance indicators:	-	
(i) Technical-	Weed Density per meter squ., No. of Pods/plant, Test Wt (g), Yield (q/ha)	
(ii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(iii) Social – **Employment generation**	-	

OFT -2

Crop / Enterprise	Sorghum	
Title of on farm trial	Assessment of diversification through millet (Sorghum) in soybean-chickpea cropping system.	
Problem diagnosed	Not grow millet (sorghum) and exist crop not use in daily diet	
Farmers' Practices	Soybean	
Details of technologies selectedfor assessment	T1	Maize var. Hybrid
	T2	**Sorghum Var. RVJ-2357**
Source of technology	RVSKVV, Gwalior-2022	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	6000	
Critical input	4000	
Performance indicators:	-	
(iv) Technical-	Yield Q/ha, Consuption per day	
(v) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(vi) Social – **Employment generation**	-	

OFT -3

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of soybean variety RVSM 2011-35 (RVSM-35) under soybean- wheat cropping system	
Problem diagnosed	Low yield of soybean due to existing varieties eg. JS-9560, JS-2034	
Farmers' Practices	Soybean Var. JS-9560	
Details of technologies selectedfor assessment	T1	Soybean Var. JS 2034

	T2	Soybean Var. RVSM 11-35
Source of technology	RVSKVV, Gwalior-2021	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	9500	
Critical input	7500	
Performance indicators:	-	
(vii) Technical-	No. of Pods, No. of Seeds, Test Wt., Yield (q/ha),	
(viii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(ix) Social – **Employment generation**	-	

OFT -4

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of improved wheat variety HI-1650 (Pusa Ojaswi)	
Problem diagnosed	Low yield and quality of wheat due to old varities HI1544 and Lok-1	
Farmers' Practices	Wheat variety Lok-1	
Details of technologies selectedfor assessment	T1	Wheat variety HI-1544
	T2	Wheat variety HI-1650
Source of technology	IARI, Indore	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	8000	
Critical input	8000	
Performance indicators:	-	
(x)Technical-	No. of Tillers, No. of ears, Test Wt., Yield (q/ha)	
(xi)Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(xii)Social – **Employment generation**	-	

Detailed Information OFT (1): Kharif

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 Preemergence herbicide Sulfentrazone + Clomazone 58 % WP (F 8072) premix @ 725 g a.i./ha in soybean
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of soybean due to heavy infestation of weeds in early stage
Thematic area:	CMP
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 – Apply Post Emergence herbicide

T2 –Recommended Practice-	T2 – Pre emergence herbicide Pendimethalin 30 EC@1.0 liter / ha
T3- Recommended Practice-	T3 – **Preemergence herbicide Sulfentrazone + Clomazone 58 % WP (F 8072) premix @ 725 g a.i./ha**
Date of sowing:	June 2024
Date of harvesting:	-
Source of technology:	Indian Institute of Soybean Research, Indore-2018
Characteristics of technology:	Effective control of Monocot and dicot weeds in soybean
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT 2:Kharif

Title of on-farm trial:	Assessment of diversification through millet (Sorghum) in soybean-chickpea cropping system.
Year/Season:	2024/ Kharif
Farming situation:	Restricted Irrigated
Problem diagnosis:	Not grow millet (sorghum) and exist cropping system gain low income
Thematic area:	CMP
No of trials:	05
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Farmers Practice – Soybean
T2 –Recommended Practice-	T2 – Maize var. Hybrid
T3- Recommended Practice-	T3 – **Sorghum Var. RVJ-2357**
Date of sowing:	Jun-24
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior-2022
Characteristics of technology:	Doul purpose high yield sorghum variety (35-43 q/ha), Moderately tolerent to shoot fly, stem borer and grain mold
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT (3): Kharif

Title of on-farm trial:	Assessment of soybean variety RVSM 2011-35 (RVSM-35) under soybean- wheat cropping system
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of soybean due to existing varieties eg. JS-9560, JS-2034
Thematic area:	CMP
No of trials:	05
No. of farmers involved	5

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Farmers Practice – Soybean Var. JS-9560
T2 –Recommended Practice-	T2 – Soybean Var. JS-2034
T3- Recommended Practice-	T3 – **Soybean Var. RVSM-1135**
Date of sowing:	Jun-24
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior-2021
Characteristics of technology:	Climate resilient variety,suitable for machenical harvesting, medium resistance to YVM
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about OFT (4): Rabi

Title of on-farm trial:	Assessment of improved wheat variety HI-1650 (Pusa Ojaswi)
Year/Season:	2024/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield and quality of wheat due to old varities HI1544 and Lok-1
Thematic area:	CMP
No of trials:	05
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Farmers Practice – Wheat variety Lok-1
T2 –Recommended Practice-	T2 – Wheat variety HI-1544
T3- Recommended Practice-	T3 – Wheat variety HI-1650 (Pusa Ojaswi)
Date of sowing:	Nov-24
Date of harvesting:	-
Source of technology:	IARI, Indore-2024
Characteristics of technology:	This is a 115-120 days maturing crop with yield estimated at 5.72 tonne perhectare.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Soil Science:-

OFT-5

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of Sulphur along with recommended dose of plant nutrient as per soil test value in Soybean crop.	
Problem diagnosed	Low yield due to Imbalance use of Plant Nutrient in Soybean crop.	
Farmers' Practices	Imbalance use of plant nutrient (09:23:00 NPK kg/ha)	
Details of technologies selected for assessment	T_1	Imbalance use of plant nutrient (09:23:00 NPK kg/ha)
	T_2	Balance use of plant nutrient (20:60:20 NPK kg/ha)
	T_3	Balance use of plant nutrient (20:60:20 NPK kg/ha) + 40 kg/ha. sulphur.
Source of technology	IISS, Bhopal	
Plot size		
No. of farmers	05	
Total cost	Rs.4700.00	
Critical input	MOP, Sulphur 80 %	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- **yield (q/ ha)** (xv) Economic (xvi) Social – **Employment generation**		

OFT-6

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of Nano- Nitrogen technology in Hybrid Maize crop.	
Problem diagnosed	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea	
Farmers' Practices	One time application of nitrogen 170 kg/ha through Urea	
Details of technologies selected for assessment	T_1	Application of Urea 210 kg/ha
	T_2	Application of 50% nitrogen (105 kg/ha Urea) + Foliar application of Nano- Urea @ 625 ml/ha. at 40 and 55 days after sowing
	T_3	Application of 75% nitrogen (158 kg/ha Urea) + Foliar application of Nano- Urea @ 625 ml/ha. at 40 and 55 days after sowing
Source of technology	IFFICO	
Plot size		
No. of farmers	05	
Total cost	Rs.2400.00	
Critical input	Nano Urea	
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- **yield (q/ ha)** (xix) Economic (xx)Social – **Employment generation**		

OFT-7

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of Nano- DAP technology in Soybean crop.	
Problem diagnosed	Low fertilizer use efficiency and high fertilizer cost	
Farmers' Practices	Phosphorus through DAP & SSP	
Details of technologies selected for assessment	T_1	Phosphorus through DAP & SSP
	T_2	Phosphorus @ 30 kg/ha through DAP & SSP + Application of Nano DAP as seed treatment @ 5 ml/kg seed + Foliar application of Nano- DAP @ 4 ml/liter water at Branching stage.
	T_3	Phosphorus @ 30 kg/ha through DAP & SSP + Application of Nano DAP as seed treatment @ 5 ml/kg seed +Two time Foliar application of Nano- DAP @ 4 ml/liter water at pre branching stage and pre flowring stage.
Source of technology	IFFICO	
Plot size		
No. of farmers	05	
Total cost	Rs. 3900.00	
Critical input	Nano DAP	
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- **yield (q/ ha)** (xxiii) Economic (xxiv) Social – **Employment generation**		

OFT-8

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of Nano- DAP technology in Vegetable crop (Onion)	
Problem diagnosed	Low fertilizer use efficiency and high fertilizer cost	
Farmers' Practices	Phosphorus through SSP	
Details of technologies selected for assessment	T_1	Phosphorus through SSP
	T_2	Phosphorus @ 30 kg/ha through SSP + Application of Nano DAP as seedling treatment @ 5 ml/liter water + Foliar application of Nano- DAP @ 4 ml/liter water at 60 DAP.
	T_3	Phosphorus @ 30 kg/ha through SSP + Application of Nano DAP as seedling treatment @ 5 ml/liter water +Two time Foliar application of Nano- DAP @ 4 ml/liter water at 30 & 60 DAP.
Source of technology	IFFICO	
Plot size		
No. of farmers	05	
Total cost	Rs. 3900.00	
Critical input	Nano DAP	
Performance indicators: (xxv) Growth and Yield attributes (xxvi) Technical- **yield (q/ ha)** (xxvii) Economic (xxviii) Social – **Employment generation**		

Plant Protection:

Details of On Farm Trial (OFT)

OFT-9

Crop / Enterprise	Okra & bitter gourd	
Title of on farm trial	Assessment of ITK practice for the management of insect-pest by spraying of starch, animal urin and dusting of cowdung ash in vegetables (Okra & bitter gourd)	
Problem diagnosed	Low yield of vegetables due to infestation of insect-pest (Average yield losses up to 15-20%)	
Farmers' Practices	Application of insecticide only	
Details of technologies selected for assessment	T_1	Application of insecticide only
	T_2	spraying of starch, animal urin and dusting of cowdung ash in vegetables three time 15 day interval (Okra & Bitter Gourd)
Source of technology	Traditional knowledge in Agriculture, Booklets page no. 16	
Plot size	1000 M^2	
No. of farmers	10	
Total cost	2700 Rs	
Critical input	animal urin. cowdung ash	
Performance indicators: (xxix) Growth and Yield attributes (xxx) Technical- **yield (q/ ha)** (xxxi) Economic (xxxii) Social – **Employment generation**	% insect Infestation % Disease Incidance Yield q/ha	

OFT-10

Crop / Enterprise	Soybean & Wheat	
Title of on farm trial	Assessment of newer molecule Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed for the management of Root Aphid in wheat crop	
Problem diagnosed	Low yield of wheat due to infestation of root aphid (Average yield losses up to 15-20%)	
Farmers' Practices	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed	
Details of technologies selected for assessment	T_1	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed
	T_2	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg + thiomethoxam 30% FS 1.2ml/kg Seed
	T_3	Seed treatment with Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed
Source of technology	ICAR-NIPHM, Hedrabad	
Plot size	3000 M^2	
No. of farmers	10	
Total cost	2700 Rs	
Critical input	Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed	
Performance indicators: (xxxiii) Growth and Yield attributes (xxxiv) Technical- **yield (q/ ha)** (xxxv) Economic (xxxvi) Social – **Employment generation**	% insect Infestation % Disease Incidance Yield q/ha	

OFT-11

Crop / Enterprise	Garlic	
Title of on farm trial	Assessment of IDM module for the management of stemphylium blight and Purple Blotch in Garlic	
Problem diagnosed	Low yield of garlic due to incidence of stemphylium blight and Purple Blotch (Average yield losses up to 15-20%)	
Farmers' Practices	Application of Fungicides (Carbendazim 12%+Menchozeb 63% 1kg/ha)	
Details of technologies selected for assessment	T_1	Application of Fungicides (Carbendazim 12%+Menchozeb 63% 1kg/ha)
	T_2	Foliar application Mancozeb @ 025 % at 30, 60 and 90 DAP
	T_3	Soil app. Of Pseudomonas fluorescens @ 5 kg/ha + foliar spray Cabriotop (metiram 55%+ pyraclostrobin 5% WDP) @ 0.25 % at 30,60 and 90 DAP
Source of technology	ICAR- IIHR Bangalore (2017)	
Plot size	3000 M^2	
No. of farmers	10	
Total cost	7000 Rs	
Critical input	Pseudomonas fluorescens, metiram 55%+ pyraclostrobin 5% WDP	
Performance indicators: (xxxvii) Growth and Yield attributes (xxxviii) Technical- **yield (q/ ha)** (xxxix) Economic (xl) Social – **Employment generation**	% insect Infestation % Disease Incidance Yield q/ha	

OFT-12

Crop / Enterprise	chickpea	
Title of on farm trial	Assessment of ITK practice for the management of Fungal diseases by Seed treatment with Burn Engine Oil and application with irrigation in chickpea	
Problem diagnosed	Low yield of chickpea due to incidence of fungal diseases (Average yield losses up to 15-20%)	
Farmers' Practices	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed	
Details of technologies selected for assessment	T_1	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed
	T_2	Seed treatment with burn engine oil @ 10 ml/kg seed
	T_3	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed + burn engine oil @ 10 ml/kg seed
Source of technology	Traditional knowledge of farmers village Gawakheda, block-Ashta, Distt.-Sehore	
Plot size	4000 M^2	
No. of farmers	10	
Total cost	1050 Rs	
Critical input	Burn engine oil	
Performance indicators: (xli) Growth and Yield attributes (xlii) Technical- **yield (q/ ha)** (xliii) Economic (xliv) Social – **Employment generation**	% insect Infestation % Disease Incidance Yield q/ha	

Detailed Information about OFT:

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 ITK practice for the management of insect-pest by spraying of starch, animal urin and dusting of cowdung ash in vegetables (Okra & bitter gourd)
Year/Season:	2024/Kharif
Farming situation:	Shallow to medium black soil & plain field Irrigated Okra-tomato-fenugreek/spinach cropping system. Bitter gaurd – Onion-fenugreek cropping system Semi-medium to Small Farmers categories
Problem diagnosis:	Low yield of vegetables due to infestation of insect-pest (Average yield losses up to 15-20%)
Thematic area:	IPM based on ITK
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	**Assessment**
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of insecticide only
T2 –Recommended Practice-	spraying of starch, animal urin and dusting of cowdung ash in vegetables three time 15 day interval (Okra & Bitter Gourd)
Date of sowing:	1 July, 2024
Date of harvesting:	5 September, 2024
Source of technology:	Traditional knowledge in Agriculture, Booklets page no. 16
Characteristics of technology:	spraying of starch, animal urin and dusting of cowdung ash in vegetables it's reduce insect infestation
Name of Crop/Enterprises:	Okra & bitter gourd
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

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 newer molecule Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed for the management of Root Aphid in wheat crop
Year/Season:	2024/Kharif/Rabi
Farming situation:	Shallow to medium black cotton soil & plain field. Irrigated Soybean-wheat/chickpea cropping system.

	Marginal to semi medium Farmers categories.
Problem diagnosis:	Low yield of wheat due to infestation of root aphid (Average yield losses up to 15-20%)
Thematic area:	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-	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed
T2 –Recommended Practice-	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg + thiomethoxam 30% FS 1.2ml/kg Seed
T3 –Recommended Practice -	Seed treatment with Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed
Date of sowing:	25 June, 2024
Date of harvesting:	5 march, 2025
Source of technology:	ICAR-NIPHM, Hedrabad
Characteristics of technology:	IDM
Name of Crop/Enterprises:	Soybean. Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

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 stemphylium blight and Purple Blotch in Garlic
Year/Season:	2024/Rabi
Farming situation:	Shallow to medium black cotton soil & plain field. Irrigated Soybean-Garlic cropping system. Marginal to semi medium Farmers categories.
Problem diagnosis:	Low yield of garlic due to incidence of stemphylium blight and Purple Blotch (Average yield losses up to 15-20%)
Thematic area:	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-	Application of Fungicides (Carbendazim 12%+Menchozeb 63% 1kg/ha)
T2 –Recommended Practice-	Foliar application Mancozeb @ 025 % at 30, 60 and 90 DAP
T3–Recommended Practice-	Soil app. Of Pseudomonas fluorescens @ 5 kg/ha + foliar spray Cabriotop (metiram 55%+ pyraclostrobin 5% WDP) @ 0.25 % at 30,60 and 90 DAP

Date of sowing:	05 Oct, 2024
Date of harvesting:	5 march, 2025
Source of technology:	ICAR- IIHR Bangalore (2017)
Characteristics of technology:	Reduce Disease incidance
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

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 ITK practice for the management of Fungal diseases by Seed treatment with Burn Engine Oil and application with irrigation in chickpea
Year/Season:	2024/Rabi
Farming situation:	Shallow to medium black cotton soil & plain field. Irrigated Soybean-Chickpea cropping system. Marginal to semi medium Farmers categories.
Problem diagnosis:	Low yield of chickpea due to incidence of fungal diseases (Average yield losses up to 15-20%)
Thematic area:	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-	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed
T2 –Recommended Practice-	Seed treatment with burn engine oil @ 10 ml/kg seed
T3–Recommended Practice-	Seed treatment with carbendazim 25% + Manchozeb 50% @ 3g/kg Seed + burn engine oil @ 10 ml/kg seed
Date of sowing:	05 Oct, 2024
Date of harvesting:	15 march, 2025
Source of technology:	Traditional knowledge of farmers village Gawakheda, block-Ashta, Distt.-Sehore
Characteristics of technology:	Reduce Disease incidance
Name of Crop/Enterprises:	chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT 13:

Title	Assessment of effective use of different information sources for production technology of onion & Garlic
Season & Year	Rabi, 2024-2025
Problem identified	Low yield of Onion & Garlic due to poor information sources
Thematic Area	Information and Communication Technology
Farming situation	Irrigated
Name of Technology under study	Use of what's app for Onion & Garlic Production technology information
Farmers Practice	Use traditional information Sources
No. of replication (Farmers)	60

Results / findings

Performance indicators/ parameters	Unit/ details
Change in knowledge (%)	-
Change in adoption of disseminated technology (%)	-
Timeliness (%)	-
Production (per ha.)	-
Appropriateness	-

Information about Extension OFT 14:

Title	Assessment of Knowledge and Adoption Behavior of Natural Farming
Season & Year	Rabi, 2024-2025
Problem identified	Low Knowledge and Awareness about Natural Farming
Thematic Area	Soil Heath Management
Farming situation	Irrigated
Name of Technology under study	Adoption og different practices of natural farming
Farmers Practice	Not adoption of natural farming practices
No. of replication (Farmers)	20

Results / findings

Knowledge level	Unit/ details
Adoption level	-
constraints	-

Information about Home Science OFT 15:

Title of on-farm trial:	Assessment of Sorghum Millet Storage through Pro-Super Begs
Year/Season:	2024
Problem diagnosis:	Lack of awareness of storage techniques
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-	Farmers uses neem leaves for grain storage.
T2 –Recommended Practice-	Use Pro-Super Begs for long time storage of grains
Source of technology:	IRRI 2011
Characteristics of technology:	Air Tight Storage of Grains through Pro-Super Begs
Name of Crop/Enterprises:	Sorghum
Farming situation:	Home Steed
Date of sowing:	Start: Oct. 2024
Date of harvesting:	End : Jan 2025
Recommendations for Farmers	
Recommendations for Dept. Personnel	
Feedback	

Information about Home Science OFT 16:

Title of on-farm trial:	Assessment of Sorghum Khichidi for anaemic children
Year/Season:	2024
Problem diagnosis:	Anaemic children in Rural areas.
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-	Intake low Protein, Vitamin and Mineral diet in first half day.
T2 –Recommended Practice-	Sorghum+Moong Dal = sorghum Khichidi
Source of technology:	IIMR, Hydrabad, 2021
Characteristics of technology:	It is rich sources of protein, vitamin and minerals and rich in potassium, phosphorus and calcium and sufficient

	amount of iron, zinc and sodium to reduce malnutrition
Name of Crop/Enterprises:	Sorghum
Farming situation:	Home Steed
Date of sowing:	Start: Oct. 2024
Date of harvesting:	End : Dec., 2024
Recommendations for Farmers	
Recommendations for Dept. Personnel	
Feedback	

Information about Home Science OFT 17:

Title of on-farm trial:	Assessment of Kodo millet intake for improving hemoglobin level in adolescent girls (2nd Year)
Year/Season:	2024
Problem diagnosis:	Anaemia in adolescent girls, lack of knowledge in processing of Kutki Millet
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-	Intake low iron, Vitamin and Mineral diet in first half day.
T2 –Recommended Practice-	100 gm kodo per day
Source of technology:	IIMR, Hydrabad, 2021
Characteristics of technology:	It is rich sources of iron, vitamin and minerals to reduce anaemia
Name of Crop/Enterprises:	Kodo millet
Farming situation:	Home Steed
Date of sowing:	Start: Oct. 2024
Date of harvesting:	End : Dec., 2024
Recommendations for Farmers	
Recommendations for Dept. Personnel	
Feedback	

OFT In Progress:-

Information about OFT: (Soil Science) – 01

Title of on-farm trial:	Assessment of Nano- Nitrogen technology in wheat crop.
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One time application of nitrogen 170 kg/ha through Urea
T2 –Recommended Practice-	Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
T3- Recommended Practice-	Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Date of sowing:	October – 2023
Date of harvesting:	March – 2024
Source of technology:	IFFICO
Characteristics of technology:	Enhancing fertilizer use efficiency and reduce input cost
Name of Crop/Enterprises:	Wheat
Total cost	Rs. 2400.00
Critical input	Nano Urea
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)**
Yield	(qtl./ha)			
Cost of cultivation	(Rs./ha.)			
Gross income	(Rs./ha.)			
Net income	(Rs./ha.)			
B:C ratio	-			

Information about Extension OFT 02:

Title	Assessment of effective use of different information sources for production technology of onion & Garlic
Season & Year	Rabi, 2024-2025
Problem identified	Low yield of Onion & Garlic due to poor information sources
Thematic Area	Information and Communication Technology
Farming situation	Irrigated
Name of Technology under study	Use of what's app for Onion & Garlic Production technology information
Farmers Practice	Use traditional information Sources
No. of replication (Farmers)	**60**

Results / findings

Performance indicators/ parameters	Unit/ details
Change in knowledge (%)	-
Change in adoption of disseminated technology (%)	-
Timeliness (%)	-
Production (per ha.)	-
Appropriateness	-

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.	Green Gram	CMP	Green gram variety IPM 205-7 (Virat	IPM 205-7 (Virat) Seed	Summer, 2024	4.0	10	No. of Pods, No. of Seeds, Test Wt., Yield (q/ha),
2.	Hybrid Maize	Crop Diversification	Use of Hybrid seed + Optimum seed rate + Optimum plant spacing+ Nutrient management as per STV@150:60:40 N: P: K kg/ha + timely weed management and plant protection measures.	Hybrid seed	Kharif, 2024	2.0	05	No. of cobs/plant, No. of Seeds/cob, Yield (q/ha), % Income enhancement
3.	Soybean	Crop Management Practices	Pre emergence herbicide Diclosulam 84 % WDG @ 26 g/ha	Diclosulam 84 % WDG	Kharif, 2024	2.0	05	Weed Density /m^2, No. of Pods/ plant,No. of Seeds/pod,Test Wt (g),Yield (q/ha)
4.	Pigeon Pea	Crop Management Practices	Pigeon pea cultivation at bunds	Seed (TJT-501)	Kharif, 2024	0.5	25	Protein (g) Per Capita, Consumption/day Yield (q/ha)
5.	Paddy	Agril. Eng	Demonstration Of DSR machine	Machine	Kharif, 2024	4.0	10	No. of Tillers/plant No. of ears/plant No. of Seeds/ear Test Wt. (g) Yield (q/ha) Cost of cultivation,
6.	Wheat	Crop Management Practices	Demonstration of Wheat variety HI-1634 (Pusa Ahilya)	Seed (HI- 1634)	Rabi 2024	2.0	05	No. of Tillers/plant No. of ears/plant No. of Seeds/ear Test Wt. (g) Yield (q/ha)
7.	Chickpea	Crop Management Practices	Improved Variety RVG-204 Recommended Seed rate & Plant Spacing +	Seed (RVG-204)	Rabi 2024	2.0	05	No. of Pods/plant No. of Seeds/pods Test Wt. (g) Yield (q/ha)

			Timely Plant Protection Measures					
8.	Soybean-chickpea	NRM	Demonstration of Jeevamrit and Ghan Jeevamrit on growth and yield of soybean and chickoea crop	200 liter Drum, Jaggery & Chickpea flour	Kharif & Rabi and 2024	4.0	05	No. of pods/Plant, No. of seeds/pod, Test weight (g.), Yield (qtl./ha), Fertilizer Saving, Cost of cultivation, Gross income (Rs./ha.) , Net income (Rs./ha.), B:C ratio
9.	Soybean	SFM	Demonstration of Foliar Spray of Potassium Nutrient in Soybean crop.	NPK (00:00:50)	Kharif and 2024	4.0	10	Test Weight (g), Yield (q./ha.), % change Cost of cultivation, Gross income (Rs./ha.) , Net income B:C ratio
10.	Wheat	SFM	Demonstration of Bio Waste-Decomposer for composting to enhance composting process	Waste Decomposor, Drum 200 liter, Jaggery	Kharif and 2024		05	Cost of cultivation, Gross income (Rs./ha.) , Net income B:C ratio
11.	Garlic	SFM	Demonstration on foliar spray of Vegetable Micronutrient Mixture in Garlic crop	vegetable micronutrient mixture	Rabi and 2024-25	2.0	05	Average bulb weight (g.), Yield (q./ha.), Cost of cultivation, Gross income (Rs./ha.) , Net income B:C ratio
12.	Wheat	SFM	Demonstration of Nano-Nitrogen technology in wheat crop	Nano- Urea	Rabi and 2024	4.0	05	No. of effective tiller/plant, Yield (q./ha.), Cost of cultivation, Gross income (Rs./ha.) , Net income B:C ratio
13.	Green Gram	IDM	Demonstration IDM module for the management of yellow mosaic in summer green	Shikha (IPM-410-3), Thiomithoxam 30% SC, yellow sticky trap, Imidachloroprid 17.8 % SL	Jaid/2024	2 ha	10	% insect Infestation % Disease Incidance Yield q/ha
14.	Maize	IPM	Demonstration IPM module for the management of stem borer and Fall Army Warm in maize	Thiomithoxam 30% SC, pheromone trap, Bacillus thuringiensis, Lamdacylothrin % + Chlorantraniliprole 10% ZC	Kharif/2024	2 ha	10	% insect Infestation % Disease Incidance Yield q/ha
15.	Soybean	IPM	Demonstration IPM module for the management of Girdle	Imidachloropri d (goucho) 48% FS, Pheromone	Kharif/2024	2 ha	10	% insect Infestation % Disease Incidance Yield q/ha

			Beetle and defoliator in Soybean crop.	trap. Bird purcher, Lamdacylothrin % + Chlorantraniliprole 10% ZC				
16.	Chickpea	IDM	Demonstration IDM module for the management of Wilt, root rot & Collar rot disease in chickpea	*Trichodurma viridae*	Rabi/2024	2 ha	10	% insect Infestation % Disease Incidance Yield q/ha
17.	Chickpea	IPM	Demonstration of IPM module for the management of gram pod borer in chickpea	light trap, pheromone trap, *Bacillus thuringiensis var. Kurstaki*, Emmamectin benzoate 5%SG	Rabi/2024	2 ha	10	% insect Infestation % Disease Incidance Yield q/ha
18.	Soybean, chichpea	IPM	Demonstration of Neemastra, Brahmastra and Agni Astra on insect –pest of Soybean & Chickpea crop	Neemastra, Brahmastra, Agni Astra	Kharif/rabi 2024	1.5 ha	05	% insect Infestation % Disease Incidance Yield q/ha
19.	Chickpea	Soil Health Management	Demonstration of Soil Health Card Based use of Fertilizer Application in Soybean and chickpea Crops	RVG -202	Round the Year	8.0	20	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) Benefit cost ratio (Gross return/gross cost)
20.	Nutritional Security	HOV	Demonstration on Kitchen garden for nutritional security	-	Round the year	0.36 ha	25	Name of Vegetable/Fruit/Product, Per Capita Consumption gm/day, Energy (gm), Protein (gm), Iron (mg), Calcium (mg), Increase in Weight (kg), Increase in Height (cm), Increase in BMI (%)
21.	Soybean & Chickpea **(Ongoing)**	Soil Health Management	Demonstration of Soil Health Card Based use of Fertilizer Application in Soybean and chickpea Crops	RVG- 205	Round the Year	8.0	20	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) Benefit cost ratio (Gross return/gross cost)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	14	Jan to December	400
2	Farmers Training	14	Jan to December	350
3	Media coverage	15	Jan to December	Mass
4	Training for extension functionaries	06	Jan to December	185

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- NA

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	ICM	Improved Variety JS-2172, +Recommended Seed rate & Plant Spacing + IPM	Seed+Seed treatment+ IPM tools	Kharif,2024	20	50	No. of Pods/plant No. of Seeds/pods Test Wt. (g) Yield (q/ha)
2	Chickpea	ICM	Improved Variety RVG-204, +Recommended Seed rate &	Seed+Seed treatment+ IPM	Rabi,2024	20	50	No. of Pods/plant No. of Seeds/pods

			Plant Spacing + IPM	tools				Test Wt. (g) 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	04	Sept and Feb., 2024	120
2	Farmers Training	04	May and Sept	100
3	Media coverage	02	September	Mass
4	Training for extension functionaries	01	May and Sept	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	01	18	-	18	7	-	7	**25**
Resource Conservation Technologies	-	-	-	-	-	-	-	-	**-**
Integrated Farming	01	01	17	-	17	8	-	8	**25**
Water management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	02	01	40		40	10	-	10	**50**
Total									
III Soil Health and Fertility Management									
Soil fertility management	01	01	22	-	22	03	-	03	25
Integrated Nutrient Management	02	02	20	-	20	05	-	05	25
Integrated Nutrient Management	02	01	20	-	20	05	-	05	25
Production and use of organic inputs	02	01	12	-	12	13	-	13	25
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	03	01	-	45	45	-	30	30	75
Design and development of	01	01	-	21	21	-	04	04	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
low/minimum cost diet									
Minimization of nutrient loss in processing	01	01	-	17	17	-	08	08	**25**
Minimization of nutrient loss in processing	01	01	-	20	20	-	05	05	**25**
Women and child care	01	01	-	21	21	-	04	04	**25**
Total									
VII Plant Protection									
Integrated Pest Management	3	1	20	-	20	05	-	05	25
Integrated Disease Management	3	1	20	-	20	05	-	05	25
Integrated Disease Management	1	1	20	-	20	05	-		25
Mushroom Production	05	05	07	-	07	05	-	05	**12**
Bee-keeping	05	05	05	-	05	05	-	05	**10**
Plant clinic	11	01	05	-	05	05	-	05	**10**
Integrated Pest Management	11	01	75	05	80	15	05	20	**100**
(B) RURAL YOUTH									
Seed production	01	01-02	15	02	17	06	02	08	25
(C) Extension Personnel									
Productivity enhancement in field crops	02	01-02	50	10	60	5	20	20	80
Capacity building for ICT application	01	01	20	05	25	-	-	-	25

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	03	01	35	15	50	15	10	25	75
Resource Conservation Technologies	01	01	15	-	15	10	-	10	25
Crop Diversification	01	01	18	2	20	4	1	5	25
Water management	01	01	15	-	15	10	-	10	25
Integrated Crop Management	05	01-02	70	20	90	25	10	35	125
Ohther (Nutritional Security)	02	01	10	30	40	5	5	05	50
III Soil Health and Fertility Management									
Soil fertility management	02	01	-	22	22	-	3	03	25
Soil fertility management	01	01	23	-	23	02	-	02	25
Soil fertility management	02	01	20	-	20	05	-	05	25
Production and use of organic inputs	01	01	12	-	12	13	-	13	25
Production and use of organic inputs	02	01	05	-	05	20	-	20	25
Management of Problematic soils									
Micro nutrient deficiency in crops	02	01	16	-	16	04	-	04	24
Nutrient Use Efficiency	01	01	-	13	13	-	12	12	25
Nutrient Use Efficiency	01	01	23	-	23	02	-	02	25
Nutrient Use Efficiency	02	01	10	-	10	15	-	15	25
V Home Science/Women empowerment									
Women and child care	01	01	-	21	21	-	04	04	**25**
Total									
VII Plant Protection									
Integrated Pest Management	06	1	80	40	120	20	10	30	**150**
Integrated Disease Management	02	1	45	-	45	05	-	05	**50**
X Capacity Building									

and Group Dynamics									
Group dynamics	03	03	61	-	61	14	-	14	75
Formation and Management of SHGs	01	01	-	16	16	-	9	9	25
Others	02	02	20	16	36	05	09	14	50

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	Rural Youth	Integrated Farming system	01-02	15	-	15	10	-	10	25
May	F& FWT	Improved Agronomic Technologies of Soybean and maize	01-02	15	-	15	10	-	10	25
July	FT	IPM in Soybean crop for the management of Girdle beetle of Leaf Defoliators	01	20		20	5		5	25
August	Rural Youth	Repair & Maintenance of Farm Machineries	01-02	18	-	18	7	-	7	25
September	F& FWT	Improved Agronomic Technologies of Wheat and chick pea	01-02	17	-	17	8	-	08	25
October	FT	IDM in chickpea for the management of wilt, root rot and collar rot diseases	01	20		20	5		5	25
Home Science										
March	FWT	Balanced Diet of Pregnant Women	01	-	16	16	-	09	09	25
Agriculture Extension (Capacity Building and Group Dynamics)										

August & September, 2024	FT	Crop Insurance	01	40	-	40	10	-	10	**50**
Soil Science										
June	Rural Youth	Importance and use of Soil Testing & soil health card	01	21	-	21	04	-	04	**25**
June	FT	Integrated Nutrient Management in Kharif crop	01	20	-	20	05	-	05	**25**
October	FT	Integrated Nutrient Management in Rabi Crops	01	20	-	20	05	-	05	**25**
October	FT	Nutrient Management in Onion and garlic	01	22	-	22	03	-	03	**25**
October	FT	Natural farming-Rabi	01	12	-	12	13	-	13	**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										
March	F & FWT	Improved agronomic techniques of summer green gram	01	15	2	17	05	3	08	25
April	FT	Improved Technology for reduce cost of cultivation	01	17	-	17	08	-	08	25
May	F & FWT	Crop Diversification		16	-	16	09	-	09	25
May	F & FWT	Pigeon pea cultivation in waste land for nutritional security	01	10	05	15	06	04	10	25
June	FT	Weed management in soybean	01	17	-	17	08	-	08	25
June	Rural Youth	Calculation of herbicide dose & its preparation	01	17	-	17	08	-	08	25
July	FWT	Women friendly weeding equipments and their operation	01	-	20	20	-	05	05	25
September	FWT	Nutritional Security through Nutrient rich	01	-	18	18	-	07	07	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	
		wheat								
October	FT	Weed management in wheat	01	18	-	18	07	-	07	25
October	FT	Irrigation scheduling of Rabi crops	01	18	-	18	07	-	07	25
Home Science										
Feb	FWT	Health Care of Children, Pregnant Women and Adolescent Girls	01	-	21	21	-	04	04	25
June	FWT	Development of High Nutrient efficiency Diet	01	-	21	21	-	04	04	25
June, July & Oct	FWT	Nutritional Security by Kitchen Gardening	01	-	35	35	-	40	40	75
Sep	FWT	Making iron rich food supplement for anaemic children	01	-	20	20	-	05	05	25
Oct	FWT	Preservation of Seasonal Fruits	01	-	17	17	-	08	08	25
May	Rural Youth	Skill Development through Rural Craft	01	-	23	23	-	02	02	25
Oct	Rural Youth	Preservation of Seasonal Foods	01	-	21	21	-	04	04	25
Plant Protection										
March	FT	Management of yellow mosaic in green gram	1	20	-	20	5	-	5	25
June	FW	Nursery Management in Vegetable crops	1	-	20	20	-	5	5	25
June	FW	Management of Store grain pest	1	-	20	20	-	5	5	25
June	FT	Importance & use of Bio Botanical pesticides in vegetable crops	1	20	-	20	5	-	5	25
june	FT	Importance & Methods of Seed treatment	1	20	-	20	5	-	5	25
July	FT	Management Fall Army warm in maize crop	1	20	-	20	5	-	5	25
july	FT	IPM in Vegetable crops	1	20	-	20	5	-	5	25
October		Management of sucking pest in Onion & Garlic	1	20	-	20	5	-	5	25
Agriculture Extension (Capacity Building and Group Dynamics)										
March, 2024	FT	Role of Group Approach	01	20	-	20	05	-	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	
		in farming community								
April, 2024	FTTraining	Importance of Custom hiring centre	01	20	-	20	05	-	05	**25**
April, 2024	F & FWT	Role of SHG for income generation	01	-	16	16	-	09	09	**25**
May , 2024	FT	Role of Electronic Media in Agriculture	01	22	-	22	03	-	03	**25**
August, 2024	FWT	Awareness programme on health and sanitation	01	-	16	16	-	09	09	**25**
November, 2024	FT	Pradhan Mantri Krishi Sinchayee Yojana	01	20	-	20	05	-	05	**25**
December, 2024	FT	Cashless transaction	01	20	-	20	05	-	05	**25**
Soil Science										
February	FWT	Soil Fertilizer Management through composting	01	-	22	22	-	03	03	25
May	FT	Organic farming	01	12	-	12	13	-	13	25
June	FWT	Importance & use of Liquid Bio fertilizer in Field crops	01	-	13	13	-	12	12	25
June	FT	Nutrient Management in Kharif crop	01	23	-	23	02	-	02	25
June	FT	Natural Farming- Kharif	01	05	-	05	20	-	20	25
July	FT	Importance and use of water soluble fertilizer	01	23	-	23	02	-	02	25
October	FT	Nutrient Management in Rabi Crops	01	20	-	20	05	-	05	25
October	FT	Nutrient Management in Onion and garlic	01	22	-	22	05	-	05	25
October	FT	Micro Nutrient Deficiency symptom & Management	01	16	-	16	04	-	04	20
October	FT	Importance & use of Nano fertilizer	01	10	-	10	15	-	15	25

Vocational Training Programme for Rural Youth: (VT)

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
November	Rural Youth	Seed production and marketing	05	10	02	12	3	-	3	15
Home Science										
March	Rural Youth VT	Dress Designing and Tailoring	05	-	13	13	-	02	02	**15**
December	Rural Youth VT	Value Addition of seasonal foods, Preservation and Storage	05	-	10	10	-	05	05	**15**
Plant Protection										
August	Rural Youth	Bee-keeping	5	8	-	8	2	-	2	**10**
September	Rural Youth	Mushroom Production Technology	5	8	-	8	2	-	2	**10**
December	Rural Youth	Plant Clinic	5	8	-	8	2	-	2	**10**
Soil Science										
April	Rural Youth	Vermi- composting	01	07	-	07	03	-	03	**10**
August	Rural Youth	Organic farming	01	07	-	07	03	-	03	**10**

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										
May	Extension Functionaries	Improved Agronomic Technologies of Soybean and maize	01-02	15	05	20	06	04	10	30
September	Extension Functionaries	Improved Agronomic Technologies of Wheat and chick pea	01-02	15	05	20	06	04	10	30
Home Science										
Aug	Extension Functionaries	Health Care of Children, Pregnant Women and Adolescent Girls	01	-	15	15	-	10	10	**25**
Nov	Extension Functionaries	Daily Diet Plan of Human Development stage and Role of Nutritional Garden	01	-	14	14	-	11	11	**25**
Plant Protection										
July	Extension Functionaries	IPM in soybean, maize, pigeon pea	1	22	3	25	-	-	-	25
October	Extension Functionaries	IPM in chick Pea crop	1	22	3	25	-	-	-	25
November	Extension Functionaries	IPM in wheat, chickpea, lentil	1	22	3	25	-	-	-	25
Agriculture Extension (Capacity Building and Group Dynamics)										
September, 2024	Extension Functionaries	Information and Communication Technology in Agriculture	01-02	25	0	25	0	0	0	**25**

Soil Science										
May	Extension Functionaries	Natural Farming	01	25	-	25	-	-	-	**25**
October	Extension Functionaries	Use and importance of water soluble fertilizer and Nano fertilizer	01	25	-	25	-	-	-	**25**

iii) Sponsored Training Programmes

S. No.	**Title**	**Thematic area**	***Duration***	**Client PF/ RY/ EF**	**No. of courses**	**No. of participants**							**Sponsoring agency**
						Male		**Female**		**Total**			
						Other	**SC/ST**	**Other**	**SC/ST**	**Other**	**SC/ST**	**Total**	
1	Mushroom growers	PLP	25	RY	25	20	5	-	-	-	-	25	ASCI

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	475	25	500	15	03	18	490	28	518
Kisan Mela	01	820	120	940	50	10	60	870	130	1000
Kisan Ghosthi	05	222	68	290	10	05	15	232	73	305
Exhibition	10	1150	150	1300	60	10	70	1210	160	1370
Film Show	20	400	120	520	50	20	70	450	140	590
Method Demonstrations	10	145	65	210	05	02	07	150	70	220
Farmers Seminar	02	65	15	80	20	10	30	85	25	110
Workshop	02	70	25	95	04	-	04	74	25	99
Group meetings	15	155	55	210	-	-	-	155	55	210
Lectures delivered as resource persons	50	430	155	585	60	10	70	490	165	655
Interface	02	70	15	85	20	10	30	90	25	115
Newspaper coverage	100	Mass								
Radio talks	06	Mass								
TV talks	08	Mass								
Popular articles	07	- -	- -	- -	- -	- -	- -	- -	-	- -
Extension Literature	10	- -	- -	- -	- -	- -	- -	- -	-	- -
Advisory Services	23	- -	- -	- -	- -	- -	- -	- -	-	- -
Scientific visit to farmers field	140	415	115	530	55	20	75	510	135	645
Farmers visit to KVK	-	1890	650	2540	110	55	165	2000	760	2760

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Diagnostic visits	20	150	20	170	20	05	25	170	25	195
Ex-trainees Sammelan	04	100	20	120	05	-	05	105	20	125
Soil health Camp	01	50	10	60	02	-	02	62	10	72
Animal Health Camp	01	60	-	60	05	-	05	65	-	65
Soil test campaigns	01	200	45	245	10	05	15	210	50	260
Celebration of important days (World Environment Day, World Food Day , World Soil Health Day, World Women Day, Kisan Diwas, World Water Day)	07	170	105	275	10	02	12	180	107	287
World Soil Health Day	01	50	-	50	05	-	05	55	-	55
Others (Celeberation of International Day)	02	45	155	200	05	20	25	50	175	225
Others (Parthenium Awareness Programme)	01	173	59	222	10	-	10	183	59	242
Others FPO Meeting	05	120	-	120	10	-	10	130	-	130
Success Story	10	08	02	10	-	-	-	08	02	10
Others- Awareness programme- Clean India Campagign, PMFBY and PMKSY	48	350	130	480	80	20	100	430	150	580
Technological Week	01	245	65	310	20	05	25	275	70	345
Extension Literature Literature (IPM in Soybean & IPM in chickpea)	02	-	-	-	-	-	-	-	-	-
Total	**531**	**8028**	**2189**	**10207**	**641**	**212**	**853**	**8729**	**2459**	**11188**

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HI-1634	90
		HI- 1636	90
		HI-8805	35
OILSEEDS	Soybean	RVSM-11-35	20
PULSES	Pigeon pea	TJT 501	8
	Chickpea	RVG 204	30
VEGETABLES	Garlic	G-384	25
	Corriander	G-2	01
	Fenugreek	RMT 305	02
	Pea	Kashi Nandini	02
	Ginger	Waynad	25
	Turmeric	Roma	25
FLOWER CROPS	-	-	-

OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-	-	-
	Drumstick	PMK-1	1500
	Papaya	Red Lady	1500
	Guava	L- 49	100
		Shweta	100
	Lemon	Seedless	50
SPICES	-	-	-
VEGETABLES	Chilli	Hybrid	10000
	Brinjal	Hybrid	10000
	Tomato	Hybrid	10000
	Onion	Bheema Supper	5000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (Flowers)	Marigold	Hybrid	5000
	Gladiolus	Hybrid	5000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS		-	-	
1	Trichoderma	Viridae	01	600
2	*Rhizobium*	-	-	
3		-	-	
BIOFERTILIZERS		-	-	
1	Vermicompost	-	-	50000
2	NADEP	-	-	16000
3	Decomposer compost	-	-	30000
	Vermi wash	-	-	200
BIO PESTICIDES		-	-	
1	Dasparni arkl	-	-	
2	Pesticides	-	01	600
3		-	-	

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01st January – 31th March	Drumstick a multi nutritional plant	**1000**
	Micro irrigation technologies for water saving	
	Water soluble fertilizer	
	Importance of mineral mixture in animal	
1st April –30th June	Land leveling for better farming	**1000**
	Plug Tray Technology for Healthy Seedlings	
	Soil Health Management	
	Contagious disease in animals	
1st July – 30st September	Raised bed planting of Soybean Crop	**1000**
	Protected Cultivation for Vegetable Production	
	Nutrient management in Kharif Crop	
	Fisheries	
1st October – 31st December	Resource saving technologies	**1000**
	Use of Plastic in Horticulture	
	Nutrient management in rabi crops	
	Goatry	

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, SAC meeting, line dept. interface and field Visit
2	Rural Youth	PRA, SAC meeting, line dept. interface and field Visit
3	In-service personnel	PRA, SAC meeting, line dept. interface and field Visit
4	methodology for identifying OFTs/FLDs	PRA, SAC meeting, line dept. interface and field Visit
5	Matrix ranking	

Field activities

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Bijlon	Sehore	40
2	Narsinghkheda	Icchawar	25
3	Gawakheda	Asta	35
4	Bawadiya chor	Icchawar	35
5	Kothra	Nasrullaganj	65

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: 2012

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	300	150	25	-
Water Samples	-	--	-	-
Total	**300**	**150**	**25**	**-**

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
ICAR-ATARI, Zone-IX, Jabalpur	Collect technical guidance, Monitoring of KVK activities and financial supports
DES, RVSKVV, Gwalior	Collect technical guidance, Monitoring of KVK activities
Central Institute of Agricultural Engineering, Bhopal	Collect Technical Advice Regarding Agricultural Implements, Food Processing & Value Addition.

Indian Institute of Soil Science, Bhopal	Collect Technical Advices on Soil Related Problem.
Indian Institute of Pulses Research, Fanda	Collect Technical Advice for Pulses Crop
Doordarshan, Bhopal	Jointly extension of technology through television
Akashwani, Bhopal	Jointly extension of technology through Radio
RAK College of Agriculture, Sehore	Participation in KVK Programme, Collect Technical Advice for Conducting OFT & FLD.
Department of Agriculture, Sehore	Jointly Extension of Technologies Related to Field Crop and Sponsored programmes
Department of Horticulture, Sehore	Jointly Extension of Technologies Related to horticultural crops
Veterinary Department, Sehore	Jointly Extension of Technologies Related to Animal Sector
Department of NRLM, Sehore	Conduct training programme
A.T.M.A., Sehore	Support to Dissemination of Technologies.
Deptt. of Sericulture, Sehore	Jointly Extension of Technologies Related to Sericulture
Deptt. of Agriculture Engineering, Sehore	Jointly Extension of Technologies Related to engineering
Deptt. of Women & Child Dev., Sehore	Participation of Meeting Issue Related to nutrition
Lead Bank	Collect information about entrepreneurship development schemes
Nehru Yuva Kendra, Sehore	Organized Sponsored programme
NFL	Conduct demonstration programme
KRIBHCO	Conduct demonstration programme
HIL	Organized Sponsored programme
SIFA-SAMARTHAN (NGOs)	Conduct training programme with technical guidance of KVK
CEROWC, Bhopal (NGOs)	Conduct training programme with technical guidance of KVK
Reliance foundation	Conduct training programme and Messaging with technical guidance of KVK
Seed Societies	Technical Backup and purchase of seed for OFT & FLD programme

Details of linkage with ATMA / NFSM

a**) Is ATMA implemented in your district-** NO

Name of Programme	**Nature of linkage**

Give details of programmers implemented under National Horticultural Mission- NA

Name of Programme	**Nature of linkage**

Action plan for Flagship programmes implemented at KVK- NA

(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: 4000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	RVS- 1135, RVS-2001-11, RVS-18, RVS-2001-04, RVS-2024 PS-159, JS-9560, 9305, 2029, 2034, 2094, 2096, 2098, 2069, RKS-24, JS-2117, JS- 2172	All varieties grown based on Existing Farming Situation, those varieties suitable for District Farmers.	2000
Maize	Kharif	Hybrid	-	1000
Pigeon pea	Kharif	TJT-501, TT-401, UPAS-120, PUSA Arhar-16 Rajivlochan and Asha	-	250
Green gram	Kharif	Shikha, IPM-2-43, Virat and PDM-139	-	250
Black gram	Kharif	PU-1, Utra, MASH-479	-	250
Sesamum	Kharif	TKG-21, 22, 55, 306 & 308	-	250
Wheat	Rabi	HI-1612, 1620,1633, 1634, 1605,1544,1454, 8713, 8737, 8759, 8805, 8877,8805, 8802, 8823, 1636 GW-322, 366, 451,499 JW-3382, 3288 DBW-110, DDW-47, DDW-48, DBW-187 etc	-	2000
Chickpea	Rabi	RVKG-111 & 151, JKG-3, PKV-4, KAK-2 JAKI-9218, RVG-202, 203, 204, 205 JNG-1958 and JG-11, 16 and 36	-	1500
Lentil	Rabi	JL-3 & IPL-316, RVL 11-6	-	500
Mustard	Rabi	RVM-02 and Hybrid	-	
Linseed	Rabi	JLS-27 & 9, JLS- 67	-	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy	-	-	Promote Indian Breed (Gir) at present time two breed available
Poultry	-	-	Proposed Plan
Goatry	-	-	Proposed Plan
NADEP	-	-	Composed Agri waste
Vermi Composting	-	-	Production of vermicompost through Portable vermibed, Pakka Pit and ground floor
Natural Farming	-	-	Prepare Jeewamrat, Ghanjeewamrat, Neemashtra, Brahmastra etc
Organic Farming	-	-	Production of NADEP compost, Vermi compost, vermiwash
Kithcen Garden	-	-	Produce round the year nutritional vegetables and fruit
Seed Production	-	-	Produce improved crop variety seeds
Crop Cafeteria	-	-	Demonstration of different types of technology
Soil & Water Conservation	-	-	Testing of soil sampling with 12 Parameter
Azolla Production	-	-	Production of protein rich animal feed (Azolla)
Round the year Green Fodder	-	-	Napier Grass, Gini Grass, CO-4 etc variety grown for round the year green fodder