

ANNUAL ACTION PLAN

RVSKVV, GWALIOR

2023



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

Contents

S. No.	Particulars	Page No.
1.	KVK, Agar Malwa	3
2.	KVK, Alirajpur	35
3.	KVK, Ashoknagar	70
4.	KVK, Badwani	112
5.	KVK, Datia	155
6.	KVK, Dewas	200
7.	KVK, Dhar-I	268
8.	KVK, Dhar-II	305
9.	KVK, Guna	352
10.	KVK, Gwalior	395
11.	KVK, Jhabua	482
12.	KVK, Khandwa	516
13.	KVK, Khargone	544
14.	KVK, Lahar (Bhind)	607
15.	KVK, Mandsaur	649
16.	KVK, Morena	689
17.	KVK, Neemuch	745
18.	KVK, Rajgarh	790
19.	KVK, Shajapur	830
20.	KVK, Sheopur	879
21.	KVK, Shivpuri	923
22.	KVK, Ujjain	968

KVK Agar Malwa

Year of sanction: 2017

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. A.K. Dixit	07362-299106	9893424607	kvk.agarmalwa@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 20.00 ha.

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2	Under Demonstration Units	2.0
3	Under Crops	3.0
4	Orchard/Agro-forestry	1.0
5	Others (specify)	13.0
Total		20.0

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	18-10-2020	284.0	133.58 Lakh			
2	Farmers Hostel	ICAR	21-12-2020	323.74	62.45 Lakh			
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)	2019	691534/-		Working condition
Motor Cycle 2				
Bolero(Jeep)	2019	654897/-		Working condition
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2019	39530	Working condition
Computer	2019	37000	Working condition
Inverter 1100 VA (2)	2019	5300	Working condition
Inverter Battery (2)	2019	14600	Working condition
Television (LED) (2)	2021	98900	Working condition

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

Sl. No.	Tentative Date
1	15 May
2	10 October

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1 Agriculture (Soybean- Wheat/Chickea/Mustard)- Horticulture (Mandarin)	Hot moist semi arid ecological situation

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Malwa plateau zone

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

Strength	Weakness	Opportunities	Threats
•	•	•	•

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	272578
Forest	6118
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	196463
Area Sown	178490
Kharif	178056
Rabi	106605
Zaid	
Cropping Intensity	159.48%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal 8	
2	Well	
3	Tube well	
4	Ponds 19	
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Black cotton soil	These soils are dark grey to black in color, composed of clay and are plastic & sticky in nature. These soils are fertile in nature and derived from decomposition of trappean rocks having thickness of 15 cm to 2m .	60732
2	Lateritic soil	These soils consist of sandy loam to clayey loam and brick red to red in colour. These soils are derived from weathered ferruginous basalt and are found around Agar and Barod blocks.	139021
3	Alluvium soil	The alluvium is of mixed origin & comprises of silt & clay and admixtures of these in varying properties. The occurrence of alluvium is	72825

confined to the bank of stream and rivers and usually 3 to 4 m in thickness.

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	129200.00	98830.00	7.65
2.	Til	600.00	303.60	5.06
3.	Groundnut	990.00	1049.00	10.60
4.	Mustard	11000.00	13420.00	12.20
5.	Linseed	400.00	340.00	8.50
6.	Urd	14750.00	7370.00	5.00
7.	Moongbean	7621.00	4070.00	5.34
8.	Tur	1760.00	1980.00	11.25
9.	Gram	58000.00	89900.00	15.50
10.	Pea	700.00	10150.00	145.00
11.	Lentil	10000.00	12500.00	12.50
12.	Maize	13880.00	30800.00	22.19
13.	Jowar	450.00	590.00	13.11
14.	Wheat	65000.00	299000.00	46.00
15.	Barley	30.00	106.20	35.40
16.	Aonla	479.00	3803.26	79.40
17.	Ber	62.00	4463.38	719.90
18.	Custard apple	280.00	3754.24	134.08
19.	Guava	700.00	8988.00	128.40
20.	Jack fruit	40.00	985.52	246.38
21.	Mandarin	37900.00	682200.00	180.00
22.	Lime	665.00	10832.85	162.90
23.	Mango	671.00	4987.22	74.33
24.	Papaya	288.00	3861.50	134.08
25.	Pomegranate	1255.00	8149.97	64.94
26.	Sweet orange	865.00	14990.45	173.30
27.	Beans	95.00	1128.60	118.80
28.	Bitter gourd	108.00	704.80	65.26
29.	Bottle gourd	220.00	4319.92	196.36
30.	Brinjal	355.00	4867.05	137.10
31.	Cabbage	372.50	5740.21	154.10
32.	Carrot	95.00	1035.12	108.96
33.	Cauliflower	141.00	1868.25	132.50
34.	Cucumber	102.00	1205.64	118.20
35.	Green chilly	1580.00	31600.00	200.00
36.	Pumpkin	118.00	1398.18	118.49
37.	Bhindi	538.00	3941.92	73.27
38.	Onion	3700.00	112850.00	305.00
39.	Pea (green)	795.00	7592.25	95.50
40.	Potato	1725.00	36225.00	210.00
41.	Radish	98.00	1165.02	118.88
42.	Ridge gourd	70.00	795.20	113.60
43.	Sweet potato	59.00	576.70	97.75
44.	Leafy vegetables	126.00	1380.07	109.53
45.	Tomato	525.00	13125.00	250.00
46.	Other vegetables	125.00	1125.00	90.00
47.	Ajwain	12.00	12.00	10.00

48.	Coriander	18580.00	14362.33	7.73
49.	Cumin	20.00	24.55	12.28
50.	Fennel	13.00	15.80	12.15
51.	Fenugreek	1375.00	3162.50	23.00
52.	Garlic	6550.00	58950.00	90.00
53.	Ginger	70.00	1383.12	197.59
54.	Red Chilly	485.00	2608.32	53.78
55.	Turmeric	68.00	1373.39	201.97
56.	Other spices	66.50	28.60	4.30
57.	Chrysanthemum	12.00	65.46	54.55
58.	Gladiolus	17.00	84.18	49.52
59.	Jasmine	7.50	15.00	20.00
60.	Marigold	856.00	4686.59	54.75
61.	Rose	64.00	298.00	46.56
62.	Other flowers	52.00	90.54	17.41
63.	Other aromatic plants	665.00	756.96	11.38
64.	Aswagandha	1165.00	1165.80	10.01
65.	Isabgol	40.00	60.00	15.00
66.	Safed musali	110.00	409.75	37.25
67.	Other medicinal plants	1650.00	3036.00	18.40

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22			
Feb, 22			
Mar, 22			
Apr, 22			
May, 22			
Jun, 22	73.7		
July, 2022	535.5		
Aug., 2022	1251.4		
Sept., 2022	1314.0		
Oct. 2022	1542.8		
Nov. 2022			
Dec. 2022			

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

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

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Agar	Agar	Jogpura	Soybean, Wheat	Low yield of soybean due to incidence of insect pest and diseases in old variety	Varietal replacement
2	Agar	Agar	Jogpura	Soybean, Wheat	Low yield of wheat due to incidence of root aphid insect	IPM
3	Agar	Agar	Kankar	Soybean, Wheat	Low yield of soybean due to moisture stress at flowering and pod filling stage	ICM
4	Agar	Agar	Hamlakhedi	Soybean, Blackgram, Wheat	Low yield of blackgram due to incidence of insect pest and diseases in old variety	Varietal replacement
5	Agar	Agar	Malikhedi	Soybean, Mustard	Low yield of mustard due to incidence of susceptibility against insect pest and diseases in old variety	Varietal replacement
6	Barod	Barod	Ralayati	Soybean, Wheat/Chickpea	Low yield of soybean due to infestation of girdle beetle and semiloopers	IPM
7	Agar	Agar	Gurukhedi	Soybean, Mustard	Low yield of soybean due to incidence of high weed population	IWM
8	Agar	Agar	Gurukhedi	Soybean, Mustard	Low yield of soybean due to infestation of stem fly	IPM
9	Agar	Agar	Gurukhedi	Soybean, Mustard	Low yield of mustard due to incidence of susceptibility against insect pest and diseases in old variety	Varietal replacement
10	Barod	Barod	Harnavada	Soybean, Wheat/Chickpea	Low yield of chickpea due to incidence of insect pest and diseases in old variety	Varietal replacement
11	Susner	Susner	Kajlas	Soybean, Lentil	Low yield of lentil due to injudicious use of chemicals in farming	NF

Priority / Thrust areas

S. No.	Particulars
1.	Varietal replacement
2.	IPM
3	ICM
4	IWM
5	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
4	40	110.8	277

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
44	880	75	11000

Seed Production (Qtl.)	Planting material (Nos.)
100	0

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	IPM	Soybean	Low productivity due to damage by stem fly during crop growth of soybean	--	Demonstration of insecticides for stem fly management in soybean	Insect management in soybean	Improved production technology of soybean	Field day	Insecticide
2	IWM	Soybean	Low productivity due to high weed population in soybean	--	Demonstration of diclosulam herbicide for weed management in soybean	Integrated weed management in soybean	Improved production technology of soybean	Field day	Herbicide
3	Varietal evaluation	Soybean	Low yield of soybean due to incidence of susceptibility against insect pest and diseases in old variety	Evaluation of high yielding variety RVSM 1135 for higher productivity of soybean	--	Improved varieties of soybean	Improved production technology of soybean	Field visit	Seed
4	Natural Farming	Soybean	Low yield of soybean due to injudicious use of chemical in farming	Assessment of natural farming for production of soybean	--	Importance of natural farming	Improved production technology of soybean	Field visit	--
5	Varietal evaluation	Wheat	Low yield of wheat due to incidence of susceptibility against insect pest and diseases in old variety	Evaluation of high yielding variety HI 1634 for higher productivity of wheat	--	Improved varieties of wheat	Improved production technology of wheat	Field visit	Seed
6	IPM	Wheat	Low yield due to damage through root aphid in wheat	--	Demonstration of insecticide for management of root aphid in wheat	Integrated pest management in wheat	Improved production technology of wheat	Field day	Insecticide

7	Natural Farming	Lentil	Low yield of lentil due to injudicious use of chemicals in farming	Assessment of natural farming for production of lentil	--	Importance of natural farming	Improved production technology of rabi pulses	Field visit	--

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal evaluation	1	1	0	0	0	0	0	0	0	2
Natural farming	0	1	1	0	0	0	0	0	0	2
TOTAL	1	2	1	0	0	0	0	0	0	4

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
--								0
								0
TOTAL								0

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Soybean	
Title of on farm trial	Evaluation of high yielding variety RVSM 1135 for higher productivity of soybean	
Problem diagnosed	Low yield of soybean due to incidence of susceptibility against insect pest and diseases in old variety	
Farmers' Practices	Use of old variety JS 9560	
Details of technologies selected for assessment	T ₁	JS 2034, Seed treatment with rhizobium culture, PSB culture, Thiomethoxam 30 %FS @10ml/kg seed weed management through Diclosulam; Spray of rynaxypyr 100 ml /ha, Yellow sticky traps 20/ha + Spray Thiamethoxam 25%WG @100ml/ha
	T ₂	RVSM 1135, Seed treatment with rhizobium culture, PSB culture, Thiomethoxam 30 %FS @10ml/kg seed weed management through Diclosulam; Spray of rynaxypyr 100 ml /ha, Yellow sticky traps 20/ha + Spray Thiamethoxam 25%WG @100ml/ha
Source of technology	ICAR- IISR, Indore	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	14200	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Number of pods/plant, Seeds/pod, Test weight (g), Seed yield (q/ha), Economics	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Evaluation of high yielding variety RVSM 1135 for higher productivity of soybean
Year/Season:	Kharif 2023

Farming situation:	Rainfed
Problem diagnosis:	Low yield of soybean due to incidence of susceptibility against insect pest and diseases in 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-	Use of old variety JS 9560
T2 –Recommended Practice-	JS 2034 ,Seed treatment with rhizobium culture, PSB culture, Thiomethoxam 30 %FS @10ml/kg seed weed management through Diclosulam; Spray of rynaxypyr 100 ml /ha, Yellow sticky traps 20/ha + Spray Thiamethoxam 25%WG @100ml/ha
T3- Recommended Practice-	RVSM 1135, Seed treatment with rhizobium culture, PSB culture, Thiomethoxam 30 %FS @10ml/kg seed weed management through Diclosulam; Spray of rynaxypyr 100 ml /ha, Yellow sticky traps 20/ha + Spray Thiamethoxam 25%WG @100ml/ha
Date of sowing:	June/July, 2023
Date of harvesting:	
Source of technology:	ICAR- IISR, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of natural farming for production of soybean	
Problem diagnosed	Low yield of soybean due to injudicious use of chemical in farming	
Farmers' Practices	Use of chemicals in production of soybean	
Details of technologies selectedfor assessment	T ₁	Organic farming system (use of INM, IPM) for production of soybean
	T ₂	Natural farming system (use of Jivamrit, Bijamrit, Brahmastra, Agniastra) for production of soybean
Source of technology	Gurukul, Kurukhshetra	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	8000	
Critical input	Jivamrit, Bijamrit,Brahmastra, Agniastra	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Number of pods/plant, Seeds/pod, Test weight (g), Seed yield (q/ha), Economics , soil organic carbon	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of natural farming for production of soybean
Year/Season:	Kharif, 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of soybean due to injudicious use of chemical in farming
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 chemicals in production of soybean
T2 –Recommended Practice-	Organic farming system (use of INM, IPM) for production of soybean
T3- Recommended Practice-	Natural farming system (use of Jivamrit, Bijamrit, Brahmastra, Agniastra) for production of soybean
Date of sowing:	June/July, 2023
Date of harvesting:	
Source of technology:	Gurukul, Kurukhshetra
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Crop / Enterprise	Wheat	
Title of on farm trial	Evaluation of high yielding variety HI 1634 for higher productivity of wheat	
Problem diagnosed	Low yield of wheat due to incidence of susceptibility against insect pest and diseases in old variety	
Farmers' Practices	Use of old variety GW 322	
Details of technologies selected for assessment	T ₁	HI 1544, Sowing With FIRB, RDF 120:60:30:5 (NPKZn), Seed treatment with azotobactor, PSB culture, weed management through or clodinofof + metsulfuron 64 g/ha
	T ₂	HI 1634, Sowing With FIRB, RDF 120:60:30:5 (NPKZn), Seed treatment with azotobactor, PSB culture, weed management through or clodinofof + metsulfuron 64 g/ha
Source of technology	ICAR- IARI, Indore	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	14100	
Critical input	Seed	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Number of effective tillers/plant, Test weight (g), Seed yield (q/ha), Economics	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Evaluation of high yielding variety HI 1634 for higher productivity of wheat
Year/Season:	Rabi, 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to incidence of susceptibility against insect pest and diseases in 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-	Use of old variety GW 322
T2 –Recommended Practice-	HI 1544, Sowing With FIRB, RDF 120:60:30:5 (NPKZn), Seed treatment with azotobactor, PSB culture, weed management through or clodinofof + metsulfuron 64 g/ha
T3- Recommended Practice-	HI 1634, Sowing With FIRB, RDF 120:60:30:5 (NPKZn), Seed treatment with azotobactor, PSB culture, weed management through or clodinofof + metsulfuron 64 g/ha
Date of sowing:	November, 2023
Date of harvesting:	
Source of technology:	ICAR- IARI, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Crop / Enterprise	Lentil	
Title of on farm trial	Assessment of natural farming for production of lentil	
Problem diagnosed	Low yield of lentil due to injudicious use of chemicals in farming	
Farmers' Practices	Use of chemicals in production of lentil	
Details of technologies selectedfor assessment	T ₁	Organic farming system (use of INM, IPM) for production of lentil
	T ₂	Natural farming system (use of Jivamrit, Bijamrit, Brahmastra, Agniastra) for production of lentil
Source of technology	Gurukul, Kurukhshetra	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	8000	
Critical input	Jivamrit, Bijamrit, Neemastra, Brahmastra, Agniastra	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Number of pods/plant, Seeds/pod, Test weight (g), Seed yield (q/ha), Economics , soil organic carbon	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of natural farming for production of lentil
Year/Season:	Rabi, 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of lentil due to injudicious use of chemicals in farming
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 chemicals in production of lentil
T2 –Recommended Practice-	Organic farming system (use of INM, IPM) for production of lentil
T3- Recommended Practice-	Natural farming system (use of Jivamrit, Bijamrit, Brahmastra, Agniastra) for production of lentil
Date of sowing:	Rabi, 2023-24
Date of harvesting:	
Source of technology:	Gurukul, Kurukhshetra
Characteristics of technology:	
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -2

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

Detailed Information about OFT:

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

Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

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

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	Weed Management	Demonstration of diclosulam herbicide for weed management in soybean	diclosulam herbicide	Kharif, 2023	0.4 ha each	13	Weeds/sqm, Number of pods/plant, Seeds/pod, Test weight (g), Seed yield (q/ha), Economics
2	Soybean	Insect Management	Demonstration of insecticides for stem fly management in soybean	thiomethoxam 30 FS @ 10 ml/kg seed and Lembacyhalothrin 9.5 + thiomethoxam 12.6 @ 125 ml/ha	Kharif, 2023	0.4 ha each	13	Damage plants/sqm, Number of pods/plant, Seeds/pod, Test weight (g), Seed yield (q/ha), Economics
3	Wheat	Insect Management	Demonstration of insecticide for management of root aphid in wheat	Imidacloprid insecticide	Rabi, 2023-24	0.4 ha each	13	Damage plants/sqm, Number of effective tillers/plant, Test weight (g), Seed yield (q/ha), Economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	3	September, January	150
2	Farmers Training	6	May, June, October, November	120
3	Media coverage	1	September	Mass
4	Training for extension functionaries	2	May, October	40

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of	No. of	Critical	Performance	* Data on parameter in

		farmers	animals, poultry birds etc.	inputs	parameters / indicators	relation to technology demonstrated	
						Demo.	Local check

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Integrated Crop Management	NRC 138 variety, Seed treatment with rhizobium culture, PSB culture, Thiomethoxam 30 %FS @10ml/kg seed, weed management through Diclosulam; Spray of rynaxypyr 100 ml /ha, Yellow sticky traps 20/ha + Spray Thiamethoxam 25%WG @100ml/ha	Seed	Kharif, 2023	20 ha	50	Plant height, Pods/plant, seeds/pod, yield (q/ha) and BC ratio
2	Blackgram	Integrated Crop Management	Pratap Urd 1 variety, Seed treatment with rhizobium culture, PSB culture, Imidacloprid 48% FS @1.5 ml/kg seed, weed management through Pendimethalin 30% @3.33 Litre/ha; Spray of rynaxypyr 100 ml /ha, Yellow sticky traps 20/ha	Seed	Kharif, 2023	20 ha	50	Plant height, Pods/plant, seeds/pod, yield (q/ha) and BC ratio
3	Mustard	Integrated		Seed	Rabi,	20	50	Plant height,

		Crop Management			2023-24	ha		siliquae/plant, seeds/siliquae, yield (q/ha) and BC ratio
4	Chickpea	Integrated Crop Management	RVG 204 variety, Seed treatment with rhizobium culture, PSB culture, weed management through Pendimethalin 30% @3.33 Litre/ha; Spray of Emamectin benzoate 5% 220 g/ha	Seed	Rabi, 2023-24	20 ha	50	Plant height, pods/plant, seeds/pod, yield (q/ha) and BC ratio
5	Lentil	Integrated Crop Management	RVL 11-6 variety, Seed treatment with rhizobium culture, PSB culture, weed management through Pendimethalin 30% @2.5 Litre/ha and hand weeding, Spray Dimethoate 30% 660 g/ha in lentil	Seed	Rabi, 2023-24	20 ha	50	Plant height, pods/plant, seeds/pod, yield (q/ha) and BC ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	August, January	250
2	Farmers Training	5	May, June, October, November	250
3	Media coverage	2		Mass
4	Training for extension functionaries	2	May, October	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	02	10	0	10	10	0	10	20
Resource Conservation Technologies	01	02	10	0	10	10	0	10	20
Integrated Farming	01	02	10	0	10	10	0	10	20
Water management	01	02	10	0	10	10	0	10	20
Seed production	01	02	10	0	10	10	0	10	20
Integrated	01	02	10	0	10	10	0	10	20

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Crop Management									
Total	6	12	60	0	60	60	0	60	120
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	01	02	10	0	10	10	0	10	20
Total	01	02	10	0	10	10	0	10	20
f) Spices									
Production and Management technology	01	02	10	0	10	10	0	10	20
Total	01	02	10	0	10	10	0	10	20
g) Medicinal and Aromatic Plants									
Production and management technology	01	02	10	0	10	10	0	10	20
Total	01	02	10	0	10	10	0	10	20
Grand total (Horticulture)	03	06	30	0	30	30	0	30	60
III Soil Health and Fertility Management									
Soil fertility management	01	02	10	0	10	10	0	10	
Soil and Water Conservation	01	02	10	0	10	10	0	10	
Integrated Nutrient Management	01	02	10	0	10	10	0	10	
Production and use of organic inputs	01	02	10	0	10	10	0	10	
Management of Problematic soils									
Micro nutrient deficiency in crops	01	02	10	0	10	10	0	10	
Nutrient Use Efficiency									
Soil and Water Testing									
Total	5	10	50	0	50	50	0	50	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								Grand Total
			Others				SC/ST				
			Male	Female		Total	Male	Female		Total	
Total	02	04	20	0		20	20		0		20
VIII Fisheries											
Integrated fish farming											
Total											
IX Production of Inputs at site											
Vermi-compost production	01	02	10	0	10	10	0	10	20		
Organic manures production	01	02	10	0	10	10	0	10	20		
Total	02	04	20	0	20	20	0	20	40		
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	01	02	10	0	10	10	0	10	20		
Planting material production											
Vermi-culture	01	02	10	0	10	10	0	10	20		
Value addition											
Sheep and goat rearing											
Para extension workers											
TOTAL	02	04	20	0	20	20	0	20	40		
(C) Extension Personnel											
Productivity enhancement in field crops	01	02	10	0	10	10	0	10	20		
Integrated Pest Management	01	02	10	0	10	10	0	10	20		
Integrated	01	02	10	0	10	10	0	10	20		

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
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	01	02	10	0	10	10	0	10	20		
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL	04	08	40	0	40	40	0	40	80		

B) OFF Campus

[illegible]

1. On Campus

2. Off Campus

[illegible]

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

Livestock production

Home Science

Plant Protection

Agriculture Extension (Capacity Building and Group Dynamics)

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HI 1634	50
	Sorghum	RVJ 1862	20
OILSEEDS	Soybean	RVSM 1135	10
PULSES	Chickpea	RVG 204	10
	Lentil	RVL 11-6	5
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

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

Bio-products

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

BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

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

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

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	AES, line dept, interface
2	Rural Youth	AES, line dept, interface
3	In-service personnel	line dept, interface
4	methodology for identifying OFTs/FLDs	AES, line dept, interface
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	Gurukhedi	Barod	12 km

2	Malikhedi	Agar	11 km
3	Kajlas	Susner	42 km
4			
5			
6			
7			
8			

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

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 - Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
July, 2023	Demonstration	20
November, 2023	Demonstration	20
2023	Awareness	2400
February, 2023	Training	40

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif, 2023	NRC 138, NRC 142, NRC 150, NRC 152, JS 2172, RVS 18, RVS 24, JS 2069, JS 2098, JS 2034		
Blackgram	Kharif, 2023	Pratap Urd 1,		
Greengram	Kharif, 2023	IPM 410-3 (Shikha),		
Sorghum	Kharif, 2023	RVJ 1862, RVJ 2357		
Wheat	Rabi 2023-24	HI 1544, HI 1633, HI 1634, HI 1636, HI 1650, HI 1655, HI 8230, HI 8226, HI 8330, HI 8777, HI 8759		
Chickpea	Rabi 2023-24	RVG 202, RVG 203, RVG 204, RVG 205, JG 36,		
Lentil	Rabi 2023-24	RVL 11-6, Kota Masoor 1		
Linseed	Rabi 2023-24	Pratap Alsi 1		
Mustard	Rabi 2023-24	IJ 31 (Giriraj)		
Fenugreek	Rabi 2023-24	AM 1, AM 2		
Fennel	Rabi 2023-24	RF 101, RF 125		
Cumin	Rabi 2023-24	CZC 94, RZ 19		
Ajowain	Rabi 2023-24	AA 1, AA2, AA 93		
Coriander	Rabi 2023-24	ACr 1, RCr 435		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Goatary		3*5 sqm	
Vermi compost		3*5 sqm	
NADEP		1*5 sqm	
Gobar gas		2 cum	
Natural Farming		3*5 sqm	

KVK_ALIRAJPUR

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha):...20.0

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2	Under Demonstration Units	2.0
3	Under Crops	12.0
4	Orchard/Agro-forestry	3.0
5	Others (Pond, Nala)	2.5
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	Feb.2020	(294+274 sq mt)	17387000			
2	Farmers Hostel	ICAR	Dec. 2019	323.74 sq mt	7100000			
3	Staff Quarters (6)	-	-	-	-			
4	Demonstration Units (2)	GOI		280 sq mt	20.0			
5	Fencing	-	-	-	-			
6	Rain Water harvesting system	-	-	-	-			
7	Threshing floor	GOI	2020	558 sp mt	13.82			
8	Farm godown	-	--		-			

B) Vehicles

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

C) Equipment & AV aids

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

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

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

2. DETAILS OF DISTRICT

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Alirajpur	Jhabua Hills Zone (11 th)	06	288	7,28,677	36.1	92.67%	112000	

Alirajpur was forming the district of Madhya Pradesh on 17 may 2008. It has a total area of 2165.24 square kilometers. The district's boundaries include the neighboring states of Maharashtra and Gujarat; it is situated in the Malwa region of Madhya Pradesh. Many of the inhabitants are aboriginal. At least 55% of the total population of the district is Bhilala, 21% is Patlya, 15% is Bhil with the remaining 9% is made up by diverse groups. The town of Alirajpur serves as the district's administrative headquarters. Alirajpur is a drought prone district categorized under 11th Agro Climatic Zone named Jhabua Hills Zone.

Location & Geographical Area:

The district occupies an area of 2165.24 km². Alirajpur lies in the Jhabua hills region of Madhya Pradesh, near the border with Gujarat and Maharashtra

Particulars	Characteristics
Longitude	74°21'9"East
Latitude	22°18'19"North
Elevation	288 m MSL

Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Agriculture + Labour
2	Agriculture + Goatry+ Poultry + Animal husbandry

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

S. No	Agro-climatic Zone	Characteristics
1	11 th Zone – Jhabua Hills	1. Low, scanty and unevenly distributed rainfall 2. Shallow and poor soil 3. Scattered hilly rocks 4. Agricultural oriented economy

S. No	Agro ecological situation	Characteristics
1	AES-1 : Petlawad	Medium black to red yellow soil, few small irrigation tanks, dug wells and bore wells. Rainfed farming, Major crops including cotton, soybean, wheat, gram, maize and vegetable crops particularly hybrid tomato. Dairying is the tertiary source of income
2	AES-2 : Thandla, Meghanagar, Rama, Jhabua, Ranapur	Red sandy loam to red yellow soils. Poor in soil fertility and soil depth is shallow. Major crops- maize, cotton, soybean, wheat, gram. Dry land agriculture is predominant in this AES. Less emphasis on dairying and horticulture
3	AES-3 : Jobat, Bhabra, Alirajpur, Udaigarh, Katthiwara, Sondwa	Mostly red sandy loam, red yellow, alluvial & mixed soils. Major area is under rainfed situation. Main crops are Urd, Maize, Bajra, wheat and Gram. Dairy is not a vital enterprise.

Soil types-1. Medium Black soil 2. Sandy loam soil (Red Yellow soil) 3. Skeletal soil

DISTRICT AT A GLANCE:

S.No.	Particulars	Units	Statistics
1	Geographical features		
A	Geographical Data		
	i) Latitude		22°18'19"N
	ii) Longitude		74°21'9"E
	iii) MSL	Meter	288

	iv)Geographical Area	Hectares	3.182 Lakh
B	Administrative Units		
	i) Sub divisions		02
	ii) Tehsils		03
	iii) Sub-Tehsil		03
	iv) Nagar Palika		01
	v) Gram Panchayats		288
	vi) Revenue villages		551
	vii) Assembly Area		03
2	Population		
A	Total population		7,28,677
	Sex-wise		
	i) Male		362,748
	ii) Female		365,929
B	Rural Population		671622
C	Sex Ratio		1011
3	Agriculture		
A	Land utilization		
	i) Total Area	Hectare	268958
	ii) Forest cover	Hectare	52423
	iii) Non Agriculture Land	Hectare	59760
	v) Cultivable Barren land	Hectare	10320
	vi) Cultivable Area	Hectare	190000
	vii) Kharif area	Hectare	180990
	viii) Rabi Area	Hectare	32421
	ix) Irrigated Area	Hectare	37235
	x) pasture and grazing land	Hectare	3200
	xi) Land under miscellaneous tree & groves	Hectare	7373
	xii) Area under Horticultural crops	Hectare	12791
	No. of Farmers		93219
	Small		51173
	Marginal		35004
	Large		1042
4	Forest		
	(i) Forest	Hectare	52423
5	Livestock & Poultry		
A	Cattle		
	i) Cows		1040100
	ii) Buffaloes		91000
B	Other livestock		
	i) Goats		182100
	ii) Pigs		1,580
	iii) Dogs & Bitches		72860
6	Literacy		
A	Literacy rate	%	36.1
	i)Male	%	43.6
	ii)Female	%	30.3

7	Catorories		
	i) Scheduled Tribes	%	88.98
	ii) Scheduled Castes	%	3.69
8	Number of Household		123034
9	Rainfall	mm	879.7

Area under different crops:

Mono cropping is predominant in the district. During rabi season, vegetables are grown in some patches with irrigation facility. The cropping intensity is only 121 %. The areas under major crops grown are given below:

S.No.	Crop	Area (ha)	Crop	Area (ha)
Kharif			Rabi	
1	Cotton	8990	Wheat	22500
2	Soybean	18613	Gram	12200
3	Maize	41100	Maize	12200
4	Sorghum	13445	Mustard	200
5	Pearlmillet	13552	Zaid	
6	Green gram	1510	Green gram	150
7	Blackgram	55000	Ground nut	485
8	Pigeon pea	3730	Sesame	50
9	Ground nut	12500		

Cropping pattern-

Soybean – Chickpea, Soybean – Wheat
Cotton – Wheat, Cotton – Maize,

Maize – Chickpea, Maize – Wheat
Blackgram – Chickpea, Blackgram – fellow

Irrigation by Different Sources:

S.No.	Source of Irrigation	Area irrigated (ha)	S.No.	Source of Irrigation	Area irrigated (ha)
1	Dug wells	11132	4	Canals	4773
2	Tube wells/Bore wells	721	5	Other Sources	11449
3	Tanks/Ponds	5682			

Specific farming problems of Alirajpur district:

- Mono cropping
- Poor soil health.
- Poor knowledge of tribal farmers to adopt up-to-date technical know-how.
- Poverty of tribal farmers compelling them to work as migrated labourers.
- Low milk yield from farm animals & low return from poultry.
- Under utilized forest, pasture, orchard etc.
- Soil degradation due to undulated topography & frequent use of chemical fertilizers.
- Drought situation due to erratic rainfall, lack of soil moisture conservation & rain-water harvesting practices.
- Low productivity of fruits & vegetable crops.
- Less farm mechanization

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

SMW	Date	Temperature (°C)		Rainfall (mm)	No. of rainy days
		Max.	Mini.		
1	1-7Jan.22	28.2	14.2	0.0	0.0
2	8-14Jan.22	24.4	8.5	0.0	0.0
3	15-21Jan.22	27.3	10.0	0.0	0.0
4	22-28Jan.22	25.2	7.9	0.0	0.0
5	29Jan.-4Feb.22	28.9	8.2	0.0	0.0
6	5-11Feb.22	28.9	9.0	0.0	0.0
7	12-18Feb.22	30.3	10.9	0.0	0.0
8	19-25Feb.22	32.6	11.7	0.0	0.0
9	26Feb-4 Mar22	34.0	13.1	0.0	0.0
10	5-11 March22	34.2	16.4	1.2	0.0
11	12-19 March22	38.3	16.1	0.0	0.0
12	19-25 March 22	39.2	18.8	0.0	0.0
13	26 Mar-1 Apr.22	39.5	17.6	0.0	0.0
14	2 -8 Apr.22	41.5	18.5	0.0	0.0
15	9-15 April 22	40.8	19.9	0.0	0.0
16	16-22 April 22	40.4	21.5	0.0	0.0
17	23- 29 April 22	41.9	21.2	0.0	0.0
18	30 Apr- 6 May22	41.0	24.9	0.0	0.0
19	7-13 May 22	43.4	26.5	0.0	0.0
20	14 -20 May 22	41.1	26.0	0.0	0.0
21	21 -27 May 22	39.0	26.8	0.0	0.0
22	28 May- 3Jun22	38.7	28.5	0.0	0.0
23	4 - 10 Jun 22	40.1	27.5	0.0	0.0
24	11-17 Jun 22	37.3	26.0	15.9	2.0
25	18- 24 Jun 22	37.7	26.0	11.4	1.0
26	25 Jun- 1 Jul 22	35.7	26.3	0.0	0.0
27	2 - 8 Jul 22	33.3	25.2	38.2	4.0
28	9- 15 Jul 22	30.3	23.9	77.7	3.0
29	16- 22 Jul 22	29.7	23.7	22.0	3.0
30	23 - 29 Jul 22	28.6	23.2	82.0	4.0
31	30Jul- 5 Aug 22	30.2	24.0	134.6	5.0
32	6- 12 Aug 22	30.4	23.9	169.8	4.0
33	13 - 19 Aug 22	28.5	22.7	70.6	4.0
34	20-26 Aug 22	29.5	22.8	25.4	3.0
35	27 Aug-2 Sep 22	31.9	22.8	48.6	2.0
36	3- 9 Sep. 22	32.8	23.5	16.6	2.0
37	10-16 Sep. 22	31.8	23.4	34.6	5.0
38	17- 23 Sep. 22	31.1	22.4	6.4	1.0
39	24-30 Sep. 22	32.1	21.2	0.0	0.0
40	1-7 Oct.22	33.5	21.2	43.4	1.0
41	8-14 Oct.22	31.4	20.9	26.6	2.0
42	15-21Oct.22	33.7	16.9	0.0	0.0
43	22-28 Oct22	33.4	14.5	0.0	0.0
44	29 Oct-4Nov.22	33.8	13.9	0.0	0.0
45	5-11 Nov.22	34.4	16.7	0.0	0.0
46	12-18 Nov. 22	31.5	12.9	0.0	0.0
47	19-25 Nov.22	30.1	9.3	0.0	0.0
48	26Nov- 2Dec.22	30.8	10.6	0.0	0.0
49	3-9 Dec.22	29.9	12.1	0.0	0.0
50	10-16 Dec.22	30.9	15.8	0.0	0.0
51	17-23 Dec.22	31.6	13.0	0.0	0.0
52	24-31 Dec.22	28.8	9.3	0.0	0.0

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	1040100	 MT.	 kg
Buffalo	91000	 MT.	 kg
Sheep			
Crossbred/ Indigenous	-	 MT wool	 kg
Goats	182100	 MT	 kg
Pigs Crossbred/ Indigenous	1580	---	---
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	Sondwa	Sondwa	Sakdi	Soyean, Maize, Blackgram, Cotton, ground nut, Gram, Wheat & Vegetable	Poor soil status, Low productivity, Imbalance use of fertilizer & pesticide,	Soil health management, Crop diversification, Promotion of high yielding varieties,
2	Alirajpur	Alirajpur	Bahuri			
3	Alirajpur	Alirajpur	Chota Undwa			
4	Jobat	Jobat	Choti Kattali			
5	Alirajpur	Alirajpur	Rordha			

Priority / Thrust areas

S. No.	Particulars
1.	Soil health management
2	Promotion of rain water harvesting and in situ moisture conservation
3	Crop diversification
4	Improvement in crop productivity
5	Promotion of new high yielding variety of crops
6	Promotion of horticultural crops to increase socio-economic status of farmers
7	Balanced feeding and health management of milch animals and poultry

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
09	75	08	80

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
40	1000	60	1800

Seed Production (Qtl.)	Planting material (Nos.)
200.0	15000(Seedling)

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	Maize	Losses about 20-25% due to infestation of fall armyworm (Area: 35500 ha)	Assessment of insecticide-Emamectin Benzoate 5% S.G. against fall armyworm					
2	IPM	Soybean	Heavy infection of Girdle beetle (Area: 32000 ha)	Assessment of insecticide-Thiacloprid 21.7 % SC for management of Girdle Beetle					
3	Varietal replacement	Fenugreek	Low yield due to use local seed (Area: 108 ha.)	Assessment of improved varieties of Fenugreek					
4	IPM	Okra	Low yield due to use local seed (Area: 1585 ha.)	Assessment of insecticide-Emamectin Benzoate 5% S.G. in against fruit and Shoot borer in okra					
5	Varietal replacement	Coriander	Low yield due to use of local seed (Area: 285 ha)	Assessment of high yielding varieties of Coriander					
6	Resource conservation	Water Melon	Heavy weed infestation and more water consumption due to flood irrigation (Area: 310 ha)	Assessment of plastic mulch with drip irrigation in water melon					
7	IPM	Soybean	Helicoverpa causes heavy damage and reduce yield. Total Area-18613 ha	Use of tobacco decoction to control the larvae of Heliothis armigera in soybean					
8	IPM	Cotton	Cotton is the main cash crop and pest causes damage and reduce yield. Total Area-15500 ha	Use of Dhatura for controlling pests in cotton					
9	IPM	Gram	Gram is the main	Use of extract of					

			pulse crop in rabi and pest causes damage and reduce yield. Total Area- 18450 ha	neem leaves and parthenium to check infestation of <i>Helicoverpa</i> sp.in Gram					
10	IPM	Blackgram	Low yield due to heavy infestation of YMV		Seed treatment with Imidacloprid 70 WS @ 5ml/kg followed by Installation of Yellow sticky traps + spray of Thiamethoxam @ 100ml/ha				
11	ICM	Soybean	Low yield due to imbalance use of fertilizer & pesticide		RVS 2001-04 + STV based fertilizers+ IPM				
12	Varietal	Turmeric	Low yield due to use of local seed		Improved variety Selam				
13	Varietal	Tomato	Low yield due to use of local seed		High yielding variety Arka Rashak				
14	ICM	Gram	Low yield due to imbalance use of fertilizer & pesticide		RVG 202+ STV based fertilizers+ IPM				
15	Varietal	Onion	Low yield due to use of local seed		High yielding variety Bhima Sakti				
16	IWM	Maize	Heavy infestation of weeds		Atrazine 1.0 kg/ha PE + Dora/ Kulfra at 20-25 DAS				
17	Varietal	Wheat	Low yield due to use of old seed		Improved var. HI 8663 (Poshan)				

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal					02					02
IPM	01	01			01					03
Resource conservation						01				01
ITK		01	01	01						03
TOTAL	01	02	01	01	03	01				09

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	Maize	
Title of on farm trial	Assessment of insecticide- Emamectin Benzoate 5% S.G. against fall armyworm	
Problem diagnosed	Losses about 20-25% due to infestation of fall armyworm (Area: 35500 ha)	
Farmers' Practices	Quinalphos 25 % E.C. @ 1.5 L /ha	
Details of technologies selectedfor assessment	T1	Thiamethoxam 112.6 % + Lemda Cyhalothrin 9.5% @ 0.5ml/L
	T2	Erackson of bird perches @ 25/ha followed by Emamectin Benzoate 5% S.G. @ 0.4 g/L at 30 & 45 DAS
Source of technology	Gol, Vide letter O.M. No.F/13-160/2019-SD. IV, dated 06.05.2019	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	12500	
Critical input	Emamectin Benzoate 5% S.G. & Thiamethoxam 112.6 % + Lemda Cyhalothrin 9.5%	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-2

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of insecticide-Thiacloprid 21.7 % SC for management of Girdle Beetle	
Problem diagnosed	Heavy infection of Girdle beetle (Area: 32000 ha)	
Farmers' Practices	Profenophos 50% EC @ 1.5 lit /ha at 30 days after sowing	
Details of technologies selectedfor assessment	T1	Chlorantraniliprole 18.5 % SC @ 150 ml/ha at 35 DAS
	T2	Thiacloprid 21.7 % SC @ 750ml/ha at 35 DAS
Source of technology	NCIPM	
Plot size	0.4ha	
No. of farmers	10	
Total cost	10000	
Critical input	Thiacloprid 21.7 % SC @ 750ml/ha & Chlorantraniliprole 18.5 % SC @ 150 ml/ha	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-3

Crop / Enterprise	Fenugreek	
Title of on farm trial	Assessment of improved varieties of Fenugreek	
Problem diagnosed	Low yield due to use local seed (Area: 108 ha.)	
Farmers' Practices	Local Strain	
Details of technologies selectedfor assessment	T1	Ajmer Fenugreek -2
	T2	Ajmer Fenugreek -5
Source of technology	NRCSS, Ajmer	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	8000	
Critical input	Seed: Ajmer Fenugreek -2 & Ajmer Fenugreek -5	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation		

OFT-4

Crop / Enterprise	Okra	
Title of on farm trial	Assessment of insecticide- Emamectin Benzoate 5% S.G. in against fruit and Shoot borer in okra	
Problem diagnosed	Low yield due to use local seed (Area: 1585 ha.)	
Farmers' Practices	Quinalphos 25 % E.C. @ 1.5 L/ha	
Details of technologies selectedfor assessment	T1	Lamda Cyhalothrin 4.9 % CS @ 300 ml /ha at 30 & 45 DAS
	T2	Emamectin Benzoate 5% S.G. @ 150 g/ha at 30 & 45 DAS
Source of technology	CIB, 2016	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	10000	
Critical input	Lamda Cyhalothrin 4.9 % CS @ 300 ml /ha & Emamectin Benzoate 5% S.G. @ 150 g/ha	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-5

Crop / Enterprise	Coriander	
Title of on farm trial	Assessment of high yielding varieties of Coriander	
Problem diagnosed	Low yield due to use of local seed (Area: 285 ha)	
Farmers' Practices	Local seed	
Details of technologies selectedfor assessment	T1	RCR-436
	T2	ACR- 02
Source of technology	NRCSS, Ajmer	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	10000	
Critical input	Seed: RCR-436 & ACR- 02	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-6

Crop / Enterprise	Water Melon	
Title of on farm trial	Assessment of plastic mulch with drip irrigation in water melon	
Problem diagnosed	Heavy weed infestation and more water consumption due to flood irrigation (Area: 310 ha)	
Farmers' Practices	Planting on raised bed only	
Details of technologies selectedfor assessment	T1	Planting on raised bed with drip irrigation
	T2	Planting on raised bed with mulching + drip irrigation
Source of technology	IIHR	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	12500	
Critical input	Drip System & Mulching	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	

OFT-7

Crop / Enterprise	Soybean
Title of on farm trial	Use of tobacco decoction to control the larvae of Heliothis armigera in soybean
Problem diagnosed	Helicoverpa causes heavy damage and reduce yield. Total Area-18613 ha
Farmers' Practices	Quinalphos @ 1.5L/ha
Details of technologies selectedfor assessment	T1 Tobacco extract -50-60ml /lit. water
	T2 -
Source of technology	Inventory of Indigenous Technical Knowledge in Agriculture Document 2, Code - 1826, Page - 132
Plot size	0.2 ha
No. of farmers	05
Total cost	5000
Critical input	Tobacco extract -50-60ml /lit. water
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	

OFT-8

Crop / Enterprise	Cotton
Title of on farm trial	Use of Dhatura for controlling pests in cotton
Problem diagnosed	Cotton is the main cash crop and pest causes damage and reduce yield. Total Area-15500 ha
Farmers' Practices	Monocrotophos @ 1.0L/ha
Details of technologies selectedfor assessment	T1 Dhatura extract-20ml stock solution / lit. water
	T2 -
Source of technology	Inventory of Indigenous Technical Knowledge in Agriculture Document 2 (Supplement 2) Chapter 5 Code No. 2857 Page-41
Plot size	0.2 ha
No. of farmers	05
Total cost	5000
Critical input	Dhatura extract-20ml stock solution / lit. water
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	

OFT-9

Crop / Enterprise	Gram
Title of on farm trial	Use of extract of neem leaves and parthenium to check infestation of <i>Helicoverpa sp.</i> in Gram
Problem diagnosed	Gram is the main pulse crop in rabi and pest causes damage and reduce yield. Total Area-18450 ha
Farmers' Practices	Quinalphos @ 1.5L/ha
Details of technologies selectedfor assessment	T1 Extract of neem leaves and parthenium -2 ml stock solution / lit. water
	T2 -
Source of technology	Inventory of Indigenous Technical Knowledge in Agriculture Document 2 (Supplement 1)Chapter 5 Code No. 2303
Plot size	0.2 ha
No. of farmers	05
Total cost	5000

Critical input	Extract of neem leaves and parthenium
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	

Detailed Information about OFT:

1 Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of insecticide- Emamectin Benzoate 5% S.G. against fall armyworm in Maize
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Losses about 20-25% due to infestation of fall armyworm (Area: 35500 ha)
Thematic area:	IPM
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-	Quinalphos 25 % E.C. @ 1.5 L /ha
T2 –Recommended Practice-	Thiamethoxam 112.6 % + Lemda Cyhalothrin 9.5% @ 0.5ml/L
T3- Recommended Practice-	Eraction of bird perches @ 25/ha followed by Emamectin Benzoate 5% S.G. @ 0.4 g/L at 30 & 45 DAS
Date of sowing:	First Week of July
Date of harvesting:	
Source of technology:	Gol, Vide letter O.M. No.F/13-160/2019-SD. IV, dated 06.05.2019
Characteristics of technology:	Economic & Ecofriendly
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

2

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of insecticide-Thiacloprid 21.7 % SC for management of Girdle Beetle in Soybean
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy infection of Girdle beetle (Area: 32000 ha)
Thematic area:	IPM
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 @ 750ml/ha at 35 DAS
Date of sowing:	Last Week of June
Date of harvesting:	-
Source of technology:	NCIPM
Characteristics of technology:	Sustainable, Ecofriendly, economic, neonicotinoid -nerve toxin, Contact and stomach action with some systemic property
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

3

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of improved varieties of Fenugreek
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use local seed (Area: 108 ha.)
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 Strain
T2 –Recommended Practice-	Ajmer Fenugreek -2
T3- Recommended Practice-	Ajmer Fenugreek -5
Date of sowing:	Last week of October
Date of harvesting:	-
Source of technology:	NRCSS, Ajmer
Characteristics of technology:	Variety medium in height, broad leaves with less bitterness, yeild-15-20 q
Name of Crop/Enterprises:	Fenugreek
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

4

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of insecticide- Emamectin Benzoate 5% S.G. in against fruit and Shoot borer in okra
Year/Season:	2023/Rabi

Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use local seed (Area: 1585 ha.)
Thematic area:	IPM
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-	Quinalphos 25 % E.C. @ 1.5 L /ha
T2 –Recommended Practice-	Lamda Cyhalothrin 4.9 % CS @ 300 ml /ha at 30 & 45 DAS
T3- Recommended Practice-	Emamectin Benzoate 5% S.G. @ 150 g/ha at 30 & 45 DAS
Date of sowing:	Last week of October
Date of harvesting:	-
Source of technology:	CIB, 2016
Characteristics of technology:	Translaminar action, Sustainable, Ecofriendly, economic
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

5

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding varieties of Coriander
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local seed (Area: 285 ha)
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 seed
T2 –Recommended Practice-	RCR-436
T3- Recommended Practice-	ACR- 02
Date of sowing:	Last Week of October
Date of harvesting:	-
Source of technology:	NRCSS, Ajmer 2017-18
Characteristics of technology:	Resistant to stem gall and high yielding
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

6

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of plastic mulch with drip irrigation in water melon
Year/Season:	2023/Summer
Farming situation:	Irrigated
Problem diagnosis:	Heavy weed infestation and more water consumption due to flood irrigation (Area: 310 ha)
Thematic area:	Resource Conservation
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-	Planting on raised bed only
T2 –Recommended Practice-	Planting on raised bed with drip irrigation
T3- Recommended Practice-	Planting on raised bed with mulching + drip irrigation
Date of sowing:	First Week of March
Date of harvesting:	-
Source of technology:	IIHR
Characteristics of technology:	Mulching with 25 micron, silver-black plastic sheet & drip system with fertigation resulted high yield
Name of Crop/Enterprises:	Water melon
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

7

Name of Discipline	Plant Protection
Title of on-farm trial:	Use of tobacco decoction to control the larvae of Heliothis armigera in soybean crop
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Helicoverpa causes heavy damage and reduce yield. Total Area-18613 ha
Thematic area:	Pest and 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-	Quinalphos @ 1.5L/ha
T2 –Recommended Practice-	50-60ml /lit. water
T3- Recommended Practice-	-

Date of sowing:	First week of July
Date of harvesting:	-
Source of technology:	Inventory of Indigenous Technical Knowledge in Agriculture Document 2, Code - 1826, Page - 132
Characteristics of technology:	Economic and ecofriendly
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

8

Name of Discipline	Plant Protection
Title of on-farm trial:	Use of Dhatura for controlling pests in cotton
Year/Season:	Kharif 2023
Farming situation:	Partially Irrigated
Problem diagnosis:	Cotton is the main cash crop and pest causes damage and reduce yield. Total Area-15500 ha
Thematic area:	Pest and 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-	Monocrotophos @ 1.0L/ha
T2 –Recommended Practice-	20ml stock solution / lit. water
T3- Recommended Practice-	-
Date of sowing:	Last week of June
Date of harvesting:	-
Source of technology:	Inventory of Indigenous Technical Knowledge in Agriculture Document 2 (Supplement 2) Chapter 5 Code No. 2857 Page-41
Characteristics of technology:	Economic and ecofriendly
Name of Crop/Enterprises:	Cotton
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

9

Name of Discipline	Plant Protection
Title of on-farm trial:	Use of extract of neem leaves and parthenium to check infestation of <i>Helicoverpa sp.</i> in Gram
Year/Season:	Rabi 2023
Farming situation:	Partially Irrigated

Problem diagnosis:	Gram is the main pulse crop in rabi and pest causes damage and reduce yield. Total Area-18450 ha
Thematic area:	Pest and 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-	Quinalphos @ 1.5L/ha
T2 –Recommended Practice-	2 ml stock solution / lit. water
T3- Recommended Practice-	-
Date of sowing:	Last week of October
Date of harvesting:	-
Source of technology:	Inventory of Indigenous Technical Knowledge in Agriculture Document 2 (Supplement 1) Chapter 5 Code No. 2303
Characteristics of technology:	Economic and ecofriendly
Name of Crop/Enterprises:	Gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and	

nutri smart initiatives)	
No of trials:	
No. of farmers/farm women involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Blackgram	IDM	Seed treatment with Imidacloprid 70 WS @ 5ml/kg followed by Installation of Yellow sticky traps + spray of Thiamethoxam @ 100ml/ha	Seed+ yellow trap + Thiamethaxam	Kharif 2023	4.0	10	Yield/ha, Disease incidence %
2	Soybean	ICM	RVS 2001-04 + STV based fertilizers+ IPM	Seed + Need base fertilizer & Pesticide	Kharif 2023	4.0	10	Yield/ha, No. of pods /plant
3	Turmeric	Varietal	Improved variety Selam	Seed(Rhizome)	Kharif 2023	2.0	10	Yield/ha, Rhizome wt/ Plant(g)
4	Tomato	Varietal	High yielding variety Bhima Sakti	Seed	Kharif 2023	2.0	10	Yield/ha, No. of fruit /plant
5	Gram	ICM	RVG 202+ STV based fertilizers+ IPM	Seed + Need base fertilizer & Pesticide	Rabi 2023	4.0	10	Yield/ha, No. of pods /plant
6	Onion	Varietal	High yielding variety Bhima Sakti	Seed	Rabi 2023	2.0	10	Yield/ha, Bulb weight
7	Maize	IWM	Atrazine 1.0 kg/ha PE + Dora/ Kulfa at 20-25 DAS	Atrazine	Rabi 2023	4.0	10	Yield/ha, No of weeds/m2
8	Wheat	Varietal	Improved var. HI 8663 (Poshan)	Seed	Rabi 2023	4.0	10	Yield/ha, No of tillers/plant

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	Oct & Feb	200
2	Farmers Training	8	July & Nov	200
3	Media coverage	12	July, Oct, Nov, Feb	-
4	Training for extension functionaries	02	July & Nov	50

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	ICM	Improved seed + INM+ IPM	Seed, pesticide, biofertilizer	Kharif 2023	20.0	50	Yield/ha, No of pod/ No of siliquae, B:C ratio, Feedback of farmer
2	Groundnut	ICM			Kharif 2023	20.0	50	
3	Blackgram	ICM			Kharif 2023	20.0	50	
4	Pigeonpea	ICM			Kharif 2023	20.0	50	
5	Horsegram	ICM			Kharif 2023	20.0	50	
6	Gram	ICM			Rabi 2023	20.0	50	
7	Mustard	ICM			Rabi 2023	20.0	50	

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	07	Oct & Feb	350
2	Farmers Training	07	July & Nov	175
3	Media coverage	14	July, Oct, Nov, Feb	-
4	Training for extension functionaries	02	July & Nov	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Integrated Farming	1	1				20	05	25	25
Water management									
Seed production									
Integrated Crop Management	2	1				40	10	50	50
Total	3					60	15	75	75
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables									
Protective cultivation (Green Houses, Shade Houses, Shade	1	1				20	05	25	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	1					20	05	25	25
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
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	3	1				60	15	75	75
Integrated Disease Management	2	1				40	10	50	50
Bio-control of pests and diseases	1	1				20	05	25	25
Production of bio control agents and bio pesticides	1	1				20	05	25	25
Total	7					140	35	175	175
VIII Fisheries									
Integrated fish farming									
Total									
IX Production of Inputs at site									
Vermi-compost production	1	1				20	05	25	25
Organic manures									

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Livestock feed and fodder production											
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	1	1				20	05	25	25
Integrated Farming	1	1				20	05	25	25
Water management									
Seed production									
Nursery management									
Integrated Crop Management	1	1				20	05	25	25
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1				20	05	25	25
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	1	1				20	05	25	25
b) Fruits									
Cultivation of Fruit	1	1				20	05	25	25
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops	1	1				20	05	25	25
e) Tuber crops	1	1				20	05	25	25

1. On Campus

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HI 1544	100.0
OILSEEDS	Soybean	Raj Soya-24	100.0
PULSES	Gram	RVG-204	75.0
VEGETABLES	Cowpea		1.00
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES	Chilli	Hybrid	8000
	Tomato	Hybrid	7000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			5000
2	NADEP			100
3				
BIO PESTICIDES				

1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milk	HF	2	1500
		GIR	2	-
SHEEP AND GOAT		Barbarry	04	
POULTRY		Kadaknath	500	
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January	Quarterly	1000 per quarter

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case: ...02.(no.)

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA, Group meeting
3	In-service personnel	Diagnostic visit, Field visit
4	methodology for identifying OFTs/FLDs	PRA, Group meeting, Training
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	Rordha	Alirajpur	10
2	Sakadi	Sondwa	40
3	Choti khattali	Jobat	25
4	Chota Undwa	Alirajpur	05
5	Bahuri	Alirajpur	15
6			
7			
8			

1. No. of farm families selected per village : 50 per village
2. No. of survey/PRA to be conducted: 05

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:...NIL..

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	06	-
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	1. Joint diagnostic survey of different crops in kharif and rabi season 2. Conducting trainings for tribal farmers under various programmes 3. Participation in fortnightly and monthly meetings for implementing different programmes
ATMA	Collaborative training programme, demonstration, meeting and Kisan mela, field days, infrastructural development etc
Department of Horticulture	Organizing different training programmes, Joint visit
Department of Veterinary	Organizing different training programmes, animal health and vaccination camp
Department of Fisheries	Organising different training programmes
DSC (NGO)	Organized joint training programmes & Demonstration
Educate Girl	Jointly organized rural youth trainings and other trainings
Jan Sahas Sansthan	Jointly organized rural youth trainings and other vocational trainings
NRLM Project	Organized joint training programmes for farmers
M.P.State Seed corp.	Arrangement of seed, seed production programme
Wheat Research Centre, Indore	Procure seed for OFT,FLD from Indore
Directorate of Weed Science	Procure literature and CD etc for knowledge

CIAE, , Bhopal	Procure Implements for Agriculture

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
FFS	Technical
Training	Technical
Diagnostic visit	Technical
Field visit	Technical

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan. to Dec 2023	SAP Activities	Farmers of Adopted Village
Jan. to Dec 2023	Natural farming activities	Whole district

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4000 Sq m

Crop	Season	Variety	Particulars /details (Best variety in district)	Area (Sq m)
Wheat	Rabi	Lok-1, HI-1544, HI-1500, HI- 8713, GW 322, HI-1418, HI-1531, JW3382, JW-3211, HI-1454, GW-463, GW-451, HI-8627, HI-1479, HI-8498, JW 273, HI 1605, HI-8759	HI-8759, HI-8713, HI-1605, GW-322, GW-463	4000 M ²
Gram	Rabi	JG-130, JG-118, JG-16, JG-11, JG-412, Vishal, JAKI-92-18, RVG-201, RVG-202, RVG-203, JG-1, IPCK-201-4, Vijay	JG-130, RVG-201, RVG-202, RVG-203, JAKI-92-18,	
Black gram	Kharif	JU-86, JU-3, IPU-94-1, RBU-31, LBG-50	IPU-94-1	4000 M ²
Green Gram	Kharif	JM-3, JM-721, HUM-1, Pusa Vaishakhi	JM-721, HUM-1,	
Soybean	Kharif	JS-335, JS-9560, JS-9305, JS-2034, JS-2029, JS-2058, JS-2094, RVS-2001-4, RVS-24, RVS-76, MPC-86	JS-335, RVS-2001-4, JS-2029	
Mustard	Kharif	Pusa Bold, NRCHB-506, Bharat Saraso-2, Bharat Saraso-3, Pusa Jai Kisan, Giriraj	Pusa Jai Kisan, Pusa Bold, Bharat Saraso-3	
Tomato	Kharif	Abhilash	HI-8759, HI-8713, HI-1605, GW-322, GW-463	
Merigold	Kharif	Pusa Narangi	JG-130, RVG-201, RVG-202, RVG-203, JAKI-92-18,	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Poultry unit			
Goatery unit			
Vermicompost unit			
Azolla unit			
Dairy Unit			

ANNUAL ACTION PLAN 2023

KVK Ashoknagar

Year of sanction: 2023

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. B. S. Gupta	KVK Ashoknagar	9826828842	kvk.ashoknagar@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

S. N o.	Sanction ed post	Name of the incumbent	Designat ion	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Program me Coordinat or	Dr. B. S. Gupta	Principl e Scientis t & Head	Extensio n	37400-67000+10 000 AGP	16.06.1 995	05.11.1 4	9826828 842		
2	Subject Matter Specialist	Dr. V.K. Jain	Scientist (Agri. Engg.)	Irrigatio n & drainage	15600-39100+80 00 AGP	30.05.20 07	10.09.20 08	9826039 679		
3	Subject Matter Specialist	Dr. K.K. Yadav	Scientist	Horticult ure	15600-39100+60 00 AGP	10.03.19 89	17.03.20 21	9406967 822		
4	Subject Matter Specialist	Shri H.K. Trivedi	Scientist (Plant Protecti on)	Plant Patholog y	15600-39100+70 00 AGP	14.02.11	14.02.11	9866428 664		
5	Subject Matter Specialist	Vacant	-	-	-	-	-			
6	Subject Matter Specialist	Vacant	-	-	-	-	-			
7	Subject Matter Specialist	Vacant	-	-	-	-	-			
8	Program me Assistant	Vacant	-	-	-	-	-			
9	Computer Program mer/ Program me Assistant	Vacant	-	-	-	-	-			
10	Farm Manager	Vacant	-	-	-	-	-			
11	Assistant	Smt. Gunjan Gupta	O.S. cum accountan t	-	9300-34800+36 00 AGP	06.12.1 6	19.03.2 021	8319325 300	guptagunjangwl@gmail.com	

12	Jr. Stenographer / Comp. Operator	Ku. Rajani Kushwah	Jr. Stenographer / Comp. Operator	Sociology	5200-20200+2800 AGP	30.08.16	30.08.16	9179605134	Rakush1991@gmail.com	
13	Driver	Shri K.K. Vishwakarma	Driver	-	5200-20200+2400 AGP	10.07.08	10.07.08	9893773373	Kvk.ashoknagar@rvskvv.net	
14	Driver	Vacant	-	-	-	-	-	-		
15	Supporting staff	Vacant	-	-	-	-	-	-		
16	Supporting staff	Vacant	-	-	-	-	-	-		

1.3 Total land with KVK (in ha):.....19.385 ha.....

S. No.	Item	Area (ha)
1	Under Buildings	0.5 ha
2.	Under Demonstration Units	1 ha
3.	Under Crops	14 ha
4.	Orchard	0.4 ha
5.	Agro-forestry	0.01 ha
6	Dairy Unit	0.02 ha
7	Mushroom Unit	150 sq. ft.
8	Vermi compost Unit	130 sq. ft.
9	Water harvesting tank	0.1 ha
10	Net house	1200 sq. ft.
11	Poly house	450 sq. ft.
12	Azola unit	36 sq. fit.
13	Zero energy cool chamber	16 sq. fit
14	Nadep	36 sq. fit

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	August 2012	497.17 m ²	55.00 lakh	-	-	-
2	Farmers Hostel	ICAR	August 2012	305.00 m ²	30.50 lakh	-	-	-
3	Staff Quarters (6)	ICAR	April 2018	400.00 m ²	43.01 lakh	-	-	-
4	Demonstration Units (2)					-	-	-
5	Fencing	RKVY	2017	2.4 km.	10 lakh	-	-	-
6	Poly House	VTP	2017	450 sq. fit.	0.45 lakh			
7	Net House	ICAR	2017	1200 sq. fit.	0.40 lakh			
8	Azola Unit	ICAR	2017	36 sq. ft.	0.20 lakh			
9	Rain Water harvesting system	ICAR & MMKT				-	-	-
10	Threshing floor	-	-	-	--	-	-	-
11	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	13 April 2009	475988/-	3231.8 (30.11.2022)	Serviceable
Motor Cycle 2	7 July 2010	47314/-	10421	Unserviceable like to be

			(Milometer closed)	condemn
Bolero(Jeep)	18 May 2009 Old Bolero	445970/-	234700	Auction process under consideration
	26 April 2021 New Bolero	777689/-	26709 (31.03.2023)	Working condition
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Fax machine Colour printer ink fax machine Roll Computer Cable	28.3.2011	14975	Not working
Photocopy Big Machine	28.03.2011	50400	Not working
HP Computer and xerox laser printer scanner and DVD Writer	28.03.2009	47044	Not working
LCD Projector	30.03.2010	70900	Not working
HP laser Printer Print, Fax, scan	19.03.2013	24900	Not working
Dell computer	30.03.2016	26990	Working
Dell computer	30.03.2016	26990	Servicable
Vipro Laptop	14.03.2012	40755/-	Not working
Mini laptop	31.03.2016	22000/-	Not working
Tablet Iball	31.03.2016	9000/-	Not working
Epson Printer L220 Model	31.03.2016	10500/-	Not working
Epson L 380 Printer	22.12.2017	10400/-	Not working
Soil Testing Mini Kit	25.11.2015	75000=00	Good
Soil Testing Mini Kit	25.03.2017	90300=00	Good
Camera (Sony Company)	21.08.2009	11240=00	Not working
Hand camera (Video)	3.03.2018	19990/-	Working
Usha Water Cooler	20.03.2013	25133=00	Working
Printer Brother	27.03.2017	8243=00	Working
B.P. Instrument	07.07.2011	995=00	servicable
HCL Computer (Estt.)	15.03.2013	39349/-	Working
Projector	29.03.2019	30500/-	Working
Computer DAMU Project	21/10/2020	23498/-	Working
HP Computer	27.03.2017	30240/-	Servicable
HP Computer (Accounts)	27.03.2017	30240/-	Working
EPSON Printer DAMU	31.03.2021	13500/-	Servicable
Camera (Nikon)	12.02.2014	8200=00	Not working
Dell Computer (New)	31.03.2023	63500/-	Working
Dell Laptop (New)	31.03.2023	60000/-	Working
Canon Printer (New)	31.03.2023	17500/-	Working

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

KVK Name	Date of SAC meeting 2022	No. of SAC members (only) attended	Major action points*		
Ashoknagar	Kharif 18.06.22	28	क्र.	कार्य	विवरण
			1.	डॉ. एस.आर.के सिंह, निदेशक अटारी ने प्राकृतिक खेती को बढ़ावा देने हेतु आहवान	कृषि विज्ञान केन्द्र एवं किसान कल्याण तथा कृषि विभाग द्वारा प्रशिक्षण कार्यशाला एवं प्रदर्शनों का

			किया।	आयोजन किया जा रहा है।
		2.	ड्रोन का खेती में उपयोग को बढ़ावा दिया जावे।	चेन्नई की गणना एरोस्पेस कम्पनी के माध्यम से ड्रोन के माध्यम से दवा छिड़काव का प्रदर्शन कृषि विज्ञान केन्द्र प्रक्षेत्र पर किये गए।
		3.	तिलहनी फसलों को बढ़ावा दियो जावे।	केन्द्र प्रक्षेत्र पर किये गए तिलहनी फसलों का उत्पादन एवं क्षेत्रफल बढ़ाने के लिए सोयाबीन एवं क्षेत्रफल बढ़ाने के लिए सोयाबीन एवं सरसों के अग्रिम पंक्ति प्रदर्शन सतत् रूप से किये जा रहे हैं तथा बंचंबपजल इनपसकपदह जतंपदपदह आयोजित की जा रही हैं।
		4	जैविक खेती को बढ़ावा देने के लिए जैव उर्वरकों को प्रमोशन किया जावे।	जवारलाल नेहरू कृषि विष्वविद्यालय के जैव उर्वरक कृषि विज्ञान केन्द्र के उत्पाद विक्रय केन्द्र के माध्यम से उपलब्ध कराया जा रहा है।
		5	संचालक विस्तार सेवायें आर.व्ही.एस. कृषि विष्वविद्यालय ने हैप्पी सीडर की ओ.एफ.टी. के स्थान पर प्लास्टिक मल्टिंग की ओ.एफ.टी. ली जाने की सलाह दी।	रबी सीजन में इस विषय पर ओ.एफ.टी. की जावेगी।
		6	आई.पी.एम. की ओएफटी करने हेतु भी सलाह दी गई।	सोयाबीन में आई.पी.एम की ओ.एफ.टी. संभावित आगामी सीजन में ली जावेगी।
		7	विकासखण्ड समन्वयक श्री सतपाल जाट ने प्लास्टिक मुक्त भारत एवं स्वच्छता परिसर का सुझाव दिया साथ ही रुफ वाटर ट्रीटमेंट की भी सलाह दी।	वर्मी कम्पोस्ट विक्रय हेतु कपड़े की थैलीयों का उपयोग किया जा रहा है एवं लोगों को जागरूकता हेतु शिविर लगाए जा रहे हैं। स्वच्छता परिसर स्वीकृताधीन है तथा रुफ वाटर ट्रीटमेंट अभी तक प्राप्त नहीं हो सका है।
		8	जन अभियान परिषद् के प्रतिनिधि द्वारा कृषि विज्ञान केन्द्र को पोलीटैक्निक की तरह विकसित करने की सलाह दी।	कृषि आधारित सभी विधाओं पर कार्य करने का प्रयास किया जा रहा है।
		9	कौषल विकास मंत्रालय की रिसर्च फ़ैलो शैफाली आनंद ने जैविक कृषि एवं फल एवं सब्जी परिरक्षण पर प्रशिक्षण हेतु सुझाव दिया।	कृषि विज्ञान केन्द्र द्वारा प्रशिक्षण आयोजित किया गया है।
		10.	मसाला बोर्ड के श्री गड़े जी द्वारा जीरो टिलेज एवं मसाला फसलों को बढ़ावा देने हेतु सुझाव दिया	जीरो टिलेज एवं धनिया तथा लहसून की खेती को बढ़ावा दिया जा रहा है।
		11.	उपसंचालक कृषि श्री के.एस. केन द्वारा प्राकृतिक खेती, फसल विविधता, नरवाई न जलाना एवं प्रक्षेत्र पर वेस्ट डिकम्पोजर के प्रदर्शन किये जाने हेतु सुझाव दिया।	कृषि विज्ञान केन्द्र एवं आत्मा तथा किसान कल्याण तथा कृषि विभाग के साथ उपरोक्त सभी सुझावों पर प्रशिक्षण कार्यशाला आदि की जा रही हैं।
		12	कृषि उपज मंडी के प्रतिनिधि श्री खटीक जी ने कृषि तकनीकी के प्रचार-प्रसार मंत्री के आने वाले किसानों के लिए भी किया जाने का सुझाव दिया।	समय-समय पर किसान मेला, संगोष्ठी आदि का आयोजन कृषि उपज मंडी परिसर में किया जा रहा है।
		13	राजकुमार रघुवंशी जी ने टैरेस गार्डनिंग में कृषि विज्ञान केन्द्र से दी जाने वाली जानकारी की प्रशंसा की एवं इसको शहरी क्षेत्र की ओर फैलाने की सलाह दी।	शहरी क्षेत्र के लोगों हेतु टैरेस गार्डनिंग के माध्यम से खेती पर प्रशिक्षण आयोजित किया गया।
Ashoknagar	Rabi 13.03.20 23	21		

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	<u>Gird Zone (M P-07)</u> - Soils are generally Dark in colour and medium to heavy in texture. These soils are suitable for almost crops and medium rich in nutrients with very medium to high moisture retaining.Rich in iron content and suitable for production of premium quality of wheat.Capacity which covered under order entisols and vertisols. With slightly steep slope. The topography found mostly plain. PH value varies from 7.5 to 8.2 throughout the sub region
2	AES – 2	<u>Gird Zone (M P-07)</u> -Soils are light gray in color, well drained yellow soil, better suited of all types of crops under irrigated conditions which covered two orders, vertisols and inceptisols, Rainfed condition with undulated soil topography and high evapotranspiration due to higher range of temperature., Rainfed condition with undulated soil topography with steep slope and high evapotranspiration due to higher temperature. Soil made up of igneous bedrocks and found granite minrals. In some area organic carbon found satisfactory. PH value varies from 7 to 7.5

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 and AES - 2	AES – 1 and 2 Block covered : 4 Geographical area :467349 ha. Topography :slightly slope to plain Soils : Light (57.79%) and Medium to heavy (4.92%) Deep (37.29%) Major Farming systems : crop production, crop production + Animal husbandry, crop production +horticulture. Major crops : KHRIF CROPS – soybean ,black gram, green gram, paddy, maize, RABI CROPS - wheat, Lentil, Mustard, Chickpea, coriander and vegetables SWOT Analysis of each Agro-Ecological Situations of district
2		

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
☑ nutrient rich soil, water retention capacity,high iron content, plain topography	☑ drainage challenges, high SAR ,high EC	☑ suitable for premium quality of wheat and coriander	☑ Rise of PH and EC , frost prone area

AES-2 (name)

Strength	Weakness	Opportunities	Threats
☑ well drained, well aerated , suitable for custardapple , plums and khirni	☑ low water retention , high temperature , steep slope , low organic matter	☑ suitable for crops need well drained soil.suitable for Low cost fruit plants , low risk of frosting	☑ high soil erosion , low water use efficiency , low value crops , flood prone area , high possibility of draught

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	467349 ha
Forest	52925 ha
Waste Land	52800
Other than cultivated area	27600
Cultivable waste	25400
Pastures	12500
Bushes	3500ha
Current Fallow	2300 ha
Other Fallow	36200ha
Agricultural Land	307010ha
Area Sown	447760 ha
Kharif	246650 ha
Rabi	265430 ha
Zaid	
Cropping Intensity	167%
Net sown area	307000
Area sown (double sown)	68000
Baren Land	36200
Net Irrigated area	115600
Rainfed	191500

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	10641
2	Dough Well	18365
3	Tube well	48175
4	Ponds	2670
5	Others	29268

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Shallow	Shallow soils have less than 50 cm depth of solum. They have thin, horizon over the bed rock or ht e parent material.	63820
2	Medium deep	Soil surface is 20 to 36 inches from a layer that retard root development	5420
3	Deep soil	Soil surface is 36 to 60 inches from a layer that retard root development	411740

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 (kg.)	Productivity (Q /ha)
1	Wheat	173.44	4100	
2	Barlay	0.17	2060	
3	Chick pea	31.2	1900	
4	Field pea	1.193	1200	
5	Lentil	19.43	1790	
6	Mustard	68.5	1600	
7	Linseed	0.016	600	
8	Sugarcan	0.35	43500	
9	Paddy	22.50	3800	
10	Juawar	0.50	1150	
11	Maize	5.50	2150	
12	Arhar	0.45	1250	
13	Greengram	0.70	870	
14	Blackgram	83.30	900	
15	Groundnut	0.56	1500	
16	Til	0.15	1000	
17	Soybean	194.75	1690	
18	Fruit	1397.5	23427	

19	Vegetable	6624	130162	
20	Masala	20051	50128	
21	Flower	162	1620	
22	Oshadhi	343	675	
23	Fish Village	629.794	2942.00 M.Ton	4670 M.Ton/ha

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	82	25.4	1.5
Feb, 22	0	31.4	3.3
Mar, 22	6	40.1	6.3
Apr, 22	0	43.9	18.8
May, 22	18	46.2	20.2
Jun, 22	101.5	43.6	23.1
July, 2022	297.1	36.1	22.4
Aug., 2022	625.5	34.5	22.1
Sept., 2022	106.5	34.9	21.1
Oct. 2022	14.00	35.1	13.8
Nov. 2022	0	35.5	8.4
Dec. 2022	0	27.9	3.9

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	234315	MT.	3.5 kg/animal
Buffalo	146970	 MT.	6.5 kg/ animal
Sheep			
<i>Crossbred/ Indigenous</i>	1892	1.5 kg/ sheep	0.44 kg/animal
Goats	106301	 MT	0.60kg /animal
Pigs <i>Crossbred/ Indigenous</i>	1078	---	20kg/animal meat
Rabbits	-	-	-
Poultry			
Hens	11454	 Lakh eggs	160 eggs/ bird/yr
Turkey and others	-		
Category	Area	Production	Productivity
Fish	2305.940 ha	3712.00 MT	16.09 Q/ ha.

Details of Operational area / Villages (2022)

S.No	KVK	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Ashoknagar	Ashoknagar	Jamakhedi	Blackgram, Mustard	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
2	Ashoknagar	Ashoknagar	Madkheda	Mustard	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
3	Ashoknagar	Ashoknagar	Kakakhedi	Gram	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
4	Ashoknagar	Ashoknagar	Khiriya mau	Mustard	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
5	Ashoknagar	Isagarh	Kadwaya	Vegetable Minikit	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
6	Ashoknagar	Mugaoli	Baxanpur	Straw husk reaper	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
7	Ashoknagar	Ashoknagar	Mathnerchak	Soybean	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
8	Ashoknagar	Ashoknagar	Awari	Groundnut decortidetar, spiral gravety seprator	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
9	Ashoknagar	Ashoknagar	Salmai	Pea	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
10	Ashoknagar	Ashoknagar	Sikandra	IDM in rice	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
11	Ashoknagar	Isagarh	Piproda	Soybean	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
12	Ashoknagar	Mungaoli	Mudrabhadra	Crop residue management	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
13	Ashoknagar	Ashoknagar	Dangora foot	IPM in Soybean	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
14	Ashoknagar	Ashoknagar	Barodia, Palkatori & Chackchiroli	Ginger	Low yield and income due to traditional farming situation	VE, ICM,IPM, IDM, INM, NRM, IFS and mechanization
15	Ashoknagar	Ashoknagar	Shadora, Amoda	ICM in Soybean	Low yield due to old verities	VE, ICM
16	Ashoknagar	Ashoknagar	Kethan, Madkheda	ICM in Chickpea	Low yield due to grown susceptible varieties	ICM, VE
17	Ashoknagar	Ashoknagar	Amahi, Piproda	ICM in Green gram	Low yield due to traditional & YMV susceptible varieties	ICM, VE

Priority / Thrust areas

S. No.	Particulars
1.	
2.	

KVK Name	THRUST AREA
Ashoknagar	1. Use of improved farm implements

Ashoknagar	2. Soil and water management
Ashoknagar	3. Resource conservation technology
Ashoknagar	4. Group Dynamics
Ashoknagar	5. Soil fertility status through soil testing
Ashoknagar	6. Crop diversification
Ashoknagar	7. Drudgery reduction
Ashoknagar	8. Hi-tech horticulture
Ashoknagar	9. Organic Farming
Ashoknagar	10. Integrated nutrient management
Ashoknagar	11. Integrated pest management
Ashoknagar	12. Value addition
Ashoknagar	13. 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

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

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

Plant Protection

Detailed Information about OFT: -1

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IDM module for leaf spot diseases of Black gram
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due severity of leaf spot diseases in Black gram
Thematic area:	IDM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Mancozeb @ 2g/lit of water
T2 –Recommended Practice-	Seed treatment with Carboxin @ 2g/kg seed + One foliar spray of Chlorothalonil @ 2g/lit of water
T3- Recommended Practice-	foliar application of Azoxystrobin 11%+ Tebuconazole 18.3 SC @ 1ml/lit of water
Date of sowing:	June/ July
Date of harvesting:	Sept./oct.
Source of technology:	IIPR, Kanpur
Characteristics of technology:	IDM module for leaf spot diseases of Black gram
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 2

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IDM module for blast disease management of Rice
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy incidence of blast disease in Paddy
Thematic area:	IDM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1-
T2 –Recommended Practice-	Spray of Picoxystrobin 6.78 %+ Tricyclazole 20.33% SC @ 750 ml/ha
T3- Recommended Practice-	Spray of Propineb 54% + Tricyclazole 15% WP @ 2 g/lit of water
Date of sowing:	June/ July
Date of harvesting:	Sept./oct.
Source of technology:	CRRI Cuttak
Characteristics of technology:	blast disease management of Rice by using IDM Techniques
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -3

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for Powdery mildew disease in coriander
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to severity of Powdery mildew in coriander
Thematic area:	IPM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sulpher @ 3 g/lit of water
T2 –Recommended Practice-	Use foliar spray of Myclobutanil 10% WP @ 1g/lit of water
T3- Recommended Practice-	Use of Hexaconazole 5 SC @2ml / lit of water
Date of sowing:	Oct-Nov.
Date of harvesting:	March
Source of technology:	NRCSS Ajmer
Characteristics of technology:	IDM module for Powdery mildew disease in coriander
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -4

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of <i>Trichoderma viride</i> for management of wilt and root rot disease in Lentil
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy incidence of root rot and wilt in Lentil
Thematic area:	IDM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of bio pesticides , treated seed with chemical fungicides
T2 –Recommended Practice-	Liquid <i>Trichoderma viride</i> @ 10ml/kg seed, used for seed treatment + soil application <i>Trichoderma viride</i> @ 5 kg/ha with FYM
T3- Recommended Practice-	
Date of sowing:	Oct.-Nov.
Date of harvesting:	April
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	<i>Trichoderma viride</i> for management of wilt and root rot disease in Lentil
Name of Crop/Enterprises:	Lentil
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -5

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for sucking pest management of Mustard crop
Year/Season:	Rabi 2023
Farming situation:	Semi Irrigated
Problem diagnosis:	Low yield due to heavy infestation of Aphid and panted bug in Mustard
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-	Use of Profenophose@ 1.5 lit/ha
T2 –Recommended Practice-	Seed treatment Metalaxyl @ 6 g/kg seed + Imidacloprid 60 FS@ 10 ml/ kg seed + One spray of Neem oil @ 5 ml/lit of water + One foliar spray of Thiamethoxam @ 250 g/ha
T3- Recommended Practice-	-
Date of sowing:	Oct.-Nov
Date of harvesting:	March
Source of technology:	DSR&P Bharatpur
Characteristics of technology:	IPM module for sucking pest management of Mustard crop
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Agri Engineering

Detailed Information about OFT: -6

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of micro irrigation to enhance water productivity in tomato crop
Year/Season:	Kharif 2023
Farming situation:	Semi Irrigated
Problem diagnosis:	Low yield due to Scarcity of water in tomato crop
Thematic area:	Soybean, Wheat/ Gram (Water management)
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Flood Irrigation
T2 –Recommended Practice-	Drip Irrigation in tomato crops
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	GBPUA&T Pantnagar
Characteristics of technology:	
Name of Crop/Enterprises:	Drip Irrigation
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -7

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of field preparation by Rotavator for soybean , in soybean- wheat cropping system
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to improper field preparation in soybean
Thematic area:	soybean- wheat cropping system
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-	Field preparation by cultivator
T2 –Recommended Practice-	Field preparation by Rotavator
T3- Recommended Practice-	field preparation by cultivator single pass+ Rotavator
Date of sowing:	
Date of harvesting:	
Source of technology:	CIAE Bhopal
Characteristics of technology:	
Name of Crop/Enterprises:	Rotavator (Soybean)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -8

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of crop residue management in combine harvested wheat field
Year/Season:	Rabi 2023
Farming situation:	Rain-fed
Problem diagnosis:	Low yield due to Farmer practicing Burning of Wheat Crop residue
Thematic area:	soybean- wheat cropping system
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1-Farmer prating Burning of Wheat Crop residue
T2 –Recommended Practice-	Mixing of wheat crop residue by using Rotavator
T3- Recommended Practice-	Mixing of wheat crop residue by using Rotavator+ waste decomposer
Date of sowing:	
Date of harvesting:	
Source of technology:	CIAE Bhopal and IARI PUSA New Delhi
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -9

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of in situ moisture retention by using Happy seeder in paddy harvested field
Year/Season:	Rabi 2023
Farming situation:	Semi Irrigated
Problem diagnosis:	Inadequate moisture and field preparation in paddy harvested field for wheat
Thematic area:	Soybean,/Black gram- Wheat/chickpea cropping system
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-	Two times ploughing by cultivator
T2 –Recommended Practice-	Ploughing and sowing by happy seeder in single pass
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	GBPUAT Pantnagar
Characteristics of technology:	
Name of Crop/Enterprises:	Happy seeder(Wheat)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Horticulture

Detailed Information about OFT: -10

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of chilli crop under natural farming
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Heavy use of chemical fertilizer and pesticide injuries to health and environment
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:	
T1 – Farmers Practice-	T1-Use of chemical fertilizer and pesticide
T2 –Recommended Practice-	Use of Jeewamirt+ Ghanjeewamrit+Neemastra+Bramahstra in Chilli var.-Saniya
T3- Recommended Practice-	Jeewamrit + Ghanjeewamrit in Chilli (var.-Saniya)
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli (Natural Farming)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -11

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Tomato cultivation under natural farming
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Heavy use of chemical fertilizer and pesticide injuries to health and environment
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:	
T1 – Farmers Practice-	T1-Use of chemical fertilizer and pesticide
T2 –Recommended Practice-	Use of Jeewamirt+ Ghanjeewamrit+Neemastra+Bramahstra in Chilli var.-Saniya
T3- Recommended Practice-	Jeewamrit + Ghanjeewamrit in Chilli (var.-Saniya)
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli (Natural Farming)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -12

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of chilli crop under natural farming
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Heavy use of chemical fertilizer and pesticide injuries to health and environment
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:	
T1 – Farmers Practice-	T1-Use of chemical fertilizer and pesticide
T2 –Recommended Practice-	Use of Jeewamirt+ Ghanjeewamrit+Neemastra+Bramahstra in Chilli var.-Saniya
T3- Recommended Practice-	Jeewamrit + Ghanjeewamrit in Chilli (var.-Saniya)
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli (Natural Farming)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -13

Name of Discipline	Horticulture

Title of on-farm trial:	Assessment of chilli crop under natural farming
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	Heavy use of chemical fertilizer and pesticide injuries to health and environment
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:	
T1 – Farmers Practice-	T1-Use of chemical fertilizer and pesticide
T2 –Recommended Practice-	Use of Jeewamirt+ Ghanjeewamrit+Neemastra+Bramahstra in Chilli var.-Saniya
T3- Recommended Practice-	Jeewamrit + Ghanjeewamrit in Chilli (var.-Saniya)
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli (Natural Farming)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -14

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of foxtail millets
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Non ability of minor millets in this reason
Thematic area:	IDM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional crop maize/ blackgram
T2 –Recommended Practice-	Foxtail millets improved cultivation
T3- Recommended Practice-	-
Date of sowing:	June/ July
Date of harvesting:	Sept./oct.
Source of technology:	UAS Dharwad Karnataka
Characteristics of technology:	Foxtail millets improved cultivation
Name of Crop/Enterprises:	Foxtail
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: -15

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Little millets
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Non ability of minor millets in this reason
Thematic area:	IDM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional crop maize/ blackgram
T2 –Recommended Practice-	Little millets improved cultivation
T3- Recommended Practice-	-
Date of sowing:	June/ July
Date of harvesting:	Sept./oct.
Source of technology:	UAS Dharwad Karnataka
Characteristics of technology:	Little millets improved cultivation
Name of Crop/Enterprises:	Millets
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)	
Title of on-farm trial:	
Year/Season:	
Farming situation:	
Problem diagnosis:	
Thematic area:	
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

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

Frontline Demonstrations

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

S. No.	Crop	The matic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	IPM	IPM module for semi looper & tobacco caterpillar of soybean crop	Carboxin@2gm/kg seed + Thiamethoxam FS 30@0gm/kg seed+ Emamectin benzoate @ 250g/ha	Kharif 2023	2.0	5	No. of infected plants/ sq.mt.
2	Lentil	IPM	Demonstration of IDM module for wilt & root rot diseases management of lentil crop	Deep ploughing +Trichoderma 5 kg/ha +Carboxin @ 2g/kg seed	Kharif 2023	2.0	5	No. of pest /sq.mt.
3	Chickpea	IDM	Demonstration of IDM module for wilt & root rot diseases management of Chickpea crop	Deep ploughing+Trichoderma 5 kg/ha +Carboxin @ 2g/kg seed	Rabi 2023	2.0	5	% of severity of disease
4	Mustard	IPM	Demonstration of IPM module for aphid management of mustard crop	Seed treated with Imidacloprid 60 FS @10 ml/kg seed+ foliar spray of Neem Oil @5 ml/lit. + one spray of Thiamethoxam @ 250 g/ha	Rabi 2023	2.0	5	No. of pest per plant, B:C ratio
5	Guava (Horticulture)	HOV	Demonstration of Training and pruning technique in guava old orchard	Training and pruning by skilled mali	Zaid 2023	2.0	5	No of new branches, Yield & B:C Ratio
6	Drumstick PKM-1 (Horticulture)	Nutritional security	Demonstration of Drumstick (PKM-1)	25 plants per farmers	Kharif /Rabi 2023	0.1	10	Percentage survival of plants, Yield B:C Ratio
7	Nutritional garden	Nutritional Security	Demonstration of Vegetable Mini Kit containing vegetables seeds.	Vegetable Mini Kit containing tomato, Chilli, spinach, fenugreek, bottle guard, sponge guard , ladyfinger, coriander, chin podium album etc.	Kharif and Rabi 2023	01	100	Percentage survival of plants, Yield B:C Ratio
8	Marigold (Pusa basanti and Pusa Narangi)	HOF	Demonstration of Marigold saplings Var.-(Pusa basanti and Pusa Narangi)	Marigold saplings Var.-(Pusa basanti and Pusa Narangi)	Kharif and Rabi 2023	0.5	5	Yield B:C Ratio
9	Straw husk reaper	RCT	Demonstration of Straw husk reaper for husk making in combine harvested field.	Husk making by using straw husk reaper machine	Summer 2023	2	5	Straw Husk reaper efficiency ,recovery yield Quintal /ha, B:C Ratio

10	Spiral gravity separator	PHM	Demonstration of Spiral gravity separator for grading of rounded seeds	Grading of soybean by Spiral gravity separator	Kharif 2023	-	10	Cost saving , Yield, B:C Ratio
11	Wheel Hoe	Drud gery redu ction	Demonstration of weed management through Wheel hoe in chickpea	Weeding by Wheel hoe	Rabi 2023	2	5	Cost saving in weeding , Yield, B:C Ratio
12	Potato chips making machine	Impr oved mac hine ry	Demonstration of Paddle operated Potato chips making machine (Developed by CIAE Bhopal)	Paddle operated Potato chips making machine	Rabi 2023	-	5	Machine efficiency , Yield, B:C Ratio
13	Sorghum,	Natu ral farm ing	Demonstration of Sorghum under minor millets	Sorghum Variety CSH-33/ CSH-34	Kharif and Rabi 2023	4	10	Percentage survival of plants, Yield B:C Ratio
14	Pearl millet	Natu ral farm ing	Demonstration of Pearl millet Var. MH-1890/ Mx-1928, 1984	Pearl millet Var. MH-1890/ Mx-1928, 1984	Kharif and Rabi 2023	4	10	Percentage survival of plants, Yield B:C Ratio
15	Maize (Sweet corn Var. Sugar-75)	Natu ral farm ing	Demonstration of Maize (Sweet corn Var. Sugar-75)+ Jeevamrit+ Ghanjeevamrit	Maize (Sweet corn Var. Sugar-75)	Kharif and Rabi 2023	1	5	Percentage survival of plants, Yield B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	Jan 2023 to Dec 2023	400
2	Farmers Training	40	Jan 2023 to Dec 2023	800
3	Media coverage	15	Jan 2023 to Dec 2023	Mass
4	Training for extension functionaries	06	Jan 2023 to Dec 2023	120

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

S. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	ICM	Improved HYV JS 20-69 + seed treatment Carboxin 1g + thiram 2g/kg seed, Rhizobium5 g+PSB 5g kg seed + NPKS 20:60:30:40 kg/ha + Emamectin benzoate @ 250 g/ha	30 Kg seed to Each Farmer	Kharif 2023	10	25	Yield B:C Ratio
2	Blackgram	ICM	Improved HYV Pratap-1 + seed treatment Carboxin 1g + thiram 2g/kg seed, Rhizobium5 g+PSB 5g kg seed + NPK 20:50:30 kg/ha	8 kg seed to each farmer	Kharif 2023	10	25	Yield B:C Ratio
3	Lentil	ICM	Improved RVL-31 + seed treatment Carboxin 1g + thiram 2g/kg seed, Rhizobium5 g+PSB 5g kg seed + NPK 20:50:30 kg/ha	8 kg seed to each farmer	Rabi 2023-24	10	25	Yield B:C Ratio
4	Mustard	ICM	Improved HYV NRCHB-101 + seed treatment metalexil + mencozeb 2g/kg seed, +PSB 5g kg seed + NPKs 60:30:20:25 kg/ha	2 kg seed to each farmer	Rabi 2023-24	20	50	Yield B:C Ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	Sept., Sept.Feb. Feb., March	120
2	Farmers Training	8	July to march	152
3	Media coverage	8	July to march	mass

A) ON Campus

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

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	2	2							40
Integrated Disease Management	2	2							40
Bio-control of pests and diseases	1	1							20
Production of bio control agents and bio pesticides	1	1							20
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs	1	1							20
Mobilization of social capital	1	1							25
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	2	2							80
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL	19	19							425

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	Seed production	1							20
August	F/FW	Weed management	1							20
July	F/FW	ICM	1							20
July and oct	F/FW	Crop Diversification	1							20
Nov. to Dec.	F/FW	Micro irrigation/irrigation	1							20
Horticulture										
July	F/FW	Nursery raising	1							20
Oct.	F/FW	Protective cultivation	1							20
Livestock production										
Home Science										
Plant Protection	F/FW	Integrated Pest Management	1							20
	F/FW	Integrated Disease Management	1							20
	F/FW	Bio0control of pests and diseases	1							20
	F/FW	Production of bio control agents and bio pesticides	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										
Oct.	F/FW	Seed production	1							20
Oct.	F/FW	Cropping Systems	1							20
July	F/FW	Intregrated	1							20

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

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

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Laddy 786	5000
SPICES			
VEGETABLES	Tomato	Abhilash	5000
	Chilli	Sanya	5000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost			3000
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 2023 to March 2023	3 month	1000
April 2023 to June 2023	3 month	1000
July 2023 to Sept. 2023	3 month	1000
Oct. 2023 to Dec. 2023	3 month	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD/DVD	Natural Farming	01
2	CD/DVD	Organic Farming	01
3	CD/DVD	Production technology	01
4	CD/DVD	IPM	01
5	CD/DVD	IPM in vegetable crop	01
6	CD/DVD	Drip Irrigation	01
7	CD/DVD	Post harvest technology	01

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	Jamakhedi	Ashoknagar	4
2	Madkheda	Ashoknagar	5
3	Amahi	Ashoknagar	3
4	Piproda	Ishagarh	29
5	Bhosley	Ashoknagar	17
6	Sehrai	Mungoli	65
7	Hinnoda	Mungoli	67
8	Karatala	Mungoli	60
9	Dhurra	Ishagarh	9
10	Chakchiroli	Ashoknagar	15
11	Garethi	Chanderi	52
12	Kethan	Chanderi	57

1. No. of farm families selected per village :

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES
Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Kharif 2023 Crop Cafeteria

Total Area of Crop cafeteria: 1500 Sqm.

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif 2023	RVS 2001-04, RVS-18, RVS-76, RVS-24, JS20-69, JS20-94, JS20-34, JS 2029, JS 2098		1500 Sqm.
Black Gram		Azad-1, Azad-2, Azad-3, Shekhar-1, PU-31, PU-35, LBG-752, Pratap -1		
Green Gram		Hum-1, Hum-12, TJM-3, Virat		
Maize		HQPM-1, JM-221, JM-12		
Pigeon Pea		PUSA-16, Rajeev Lochan, RVSA 16-1		
Sesame		TKJ-308, TKG-306		
Paddy		PUSA -1121, PUSA-1509,		
Cactus		Spineless cactus		
Napier Grass		Super Napier		

Rabi 2023-24 Crop Cafeteria

Total Area of Crop cafeteria: 1500sqm.

Crop	Season	Variety	Particulars /details	Area (Sq m)
Wheat	Rabi 2023-24	HI-8759, C-306, HI-8737, Pusa Tejas, JW-3173, GW-322, HI-1544, HI-1531, HI-8663, HD-2864, HD-4728, Sujata, HI-8737, SKF-6055, HD-2932		1500 Sqm.
Chickpea		JG-63, RVG-201, RVG-202, Kripa, PKV-4, JG-322, JG-12, ICCV-37, JG-16, RVG-203, JG-14, JG-130, RVG-204		
Mustard		NRCHB-101, Pusa Jaikisan, Urwashi, Laxmi, RH-749, 725, Giriraj, PM-25		
Nigela		AN-1		
Lentil		PLV-31		
Onion		AFLR/ Bhima super		
Pea		Green Balley, J-10		
Coriander		RCR-436, ACR-1, Panth Haritma		
Fenugreek		AFG-1, AFG-2, AFG-3, PEB		
Spinach		Allgreen		
Cumin		JC-4		
Linseed		Indra, Padmini, JLS-27, JLS-9, KBA-4		
Tomato		Abhilasha		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy	Establishment of dairy unit under integrated farming system in the year 2016-17		
Vermi compost unit	Established under Mukhya Mantri Khet tirth Yojna in the year 2015-16		
Mushroom Unit	Established in the year 2017-18		
Mother Orchard	Five types of fruit plants planted mother orchard		
Shed net House	Established under Mukhya Mantri Khet tirth Yojna		
Calf Unit	Established in the year 2017-18		
Waste de composer Unit	Established in the year 2019-20		

KVK__Barwani__

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha):.....19.86.....

S. No.	Item	Area (ha)
1	Under Buildings	2.0 (Road and Building)
2	Under Demonstration Units	2.0
3	Under Crops	13.00
4	Orchard/Agro-forestry	0.86
5	Others (specify)- Organic field	2.0
Total		19.86

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	2010	550 sqm	45.00	Nil	Nil	Nil
2	Farmers Hostel	ICAR	2010	305 sqm	40.00	Nil	Nil	Nil
3	Staff Quarters (6)	ICAR	2011	400 sqm	40.00	Nil	Nil	Nil
4	Demonstration Units (2)	ICAR	Nil	Nil	Nil	Nil	Nil	Nil
5	Fencing	ICAR	Nil	Nil	Nil	Nil	Nil	Nil
6	Rain Water harvesting system	ICAR	Nil	Nil	Nil	Nil	Nil	Nil
7	Threshing floor	ICAR	Nil	Nil	Nil	Nil	Nil	Nil
8	Farm godown	ICAR	Nil	Nil	Nil	Nil	Nil	Nil

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2009	426652.00	4000 hour	Working
Motor Cycle 2	2010	47314.00	26000 km	Not working
Bolero(Jeep)	2019	659700	78343 km	Working
Other (Pl. specify) Mini Tractor -Mahendra 215 Yuvraj	2019	274215	150 hour	Working

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Digital camera	2008	8127/-	Not working
Laptop-HP	2008	53196/-	Not working
Laptop-Acer	2008	53196/-	Not working
Multimedia projector	2008	95888/-	Not working
T.V set	2008	17500/-	Not working
COMPUTER DESKTOP	2016	34285.71/-	Working
DTC	2016	3400/-	Working
Desktop computer- Intel® Core™ i5-6400T	2017	46190.48/-	Working
Desktop computer – All in one Core i3 processor-(2 nos)	2018	43990/-	Working
Desktop computer (HP) 10th Gen.Core i5	2022	49800/-	Working

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

Sl. No.	Tentative Date
1	22/06/2023
2	18/10/2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1	Nimar Valley Zone (M P-11)- Soils are generally red in color and very light in texture. These soils are highly deficient in nutrients with very low moisture retaining capacity which covered under order entisols and inceptisols, Rainfed condition with undulated soil topography with steep slope and high evapotranspiration due to higher range of temperature.
2	AES – 2	Nimar Valley Zone (M P-11)- Soils are light gray in color, well drained, better suited of all types of crops under irrigated conditions which covered two orders, vertisols and inceptisols, Rainfed condition with undulated soil topography and high evapotranspiration due to higher range of temperature.
3	AES – 3	Nimar Valley Zone (M P-11)- Soils are black in color, dept of soil is medium to high possess high moisture holding capacity and have integrated of amont mont-morrilonite minerls, little in chloride minerals which covered under the order of vertisols dominantly found in agro ecological situation – 3 of Barwani distt.

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Block covered : 7 Geographical area : 5427 km ² Topography : undulating to sloppy, Soils : light (24.59%) and medium to heavy (75.49%) Major Farming systems : crop production, crop production + Animal husbandry, crop production + horticulture. Major crops : cotton, maize, black gram, green gram, wheat, gram and vegetables
2	AES - 2	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	529846
Forest	158514
Waste Land	11803
Other than cultivated area	3772
Cultivable waste and alkaline land	33415
Pastures	1772
Bushes	-
Current Fallow	2360
Other Fallow	175
Agricultural Land	337368
Area Sown	283934
Kharif	-
Rabi	-
Zaid	-
Cropping Intensity (%)	120

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	29500
2	Well	36615
3	Tube well	24630
4	Ponds	24860
5	Others	-

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light (Sandy Loam)	Soils are generally red in color and very light in texture. These soils are highly deficient in nutrients with very low moisture retaining capacity which covered under order entisols and inceptisols	57.54
2	Medium (Sandy Loam)	Soils are light gray in color, well drained, better suited of all types of crops under irrigated conditions which covered two orders, vertisols and inceptisols	67.88
3	Heavy (<i>Kabar/ Mar, Sandy loam</i>)	Soils are black in color, possess high moisture holding capacity and have integrated of mont morillonite, little in chloride minerals which covered under the order of vertisols	108.56

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	Cotton	79136	188502	2382
2	Maize	72107	251726	3491
3	Jowar	17282	38522	2229
4	Soybean	37199	47838	1286
5	Groundnut	10058	14695	1461
6	Pigeonpea	2006	1817	906
7	Greengram	2376	1012	426
8	Wheat	111479	428414	3843
9	Chickpea	12828	20255	1579

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	7.0	25.6	10.6
Feb, 22	0.0	31.0	11.4
Mar, 22	11.0	38.2	17.5
Apr, 22	0.0	42.9	21.8
May, 22	0.0	43.0	27.5
Jun, 22	38.5	39.1	27.5
July, 2022	287.5	31.8	25.3
Aug., 2022	100.5	31.8	25.0
Sept., 2022	120.5	33.2	24.5
Oct. 2022	46.0	33.6	19.5
Nov. 2022	0.0	32.3	13.7
Dec. 2022	0.0	29.8	14.0

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

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

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Badwani	Badwani	Kalibedi, Pichodi, Kathora, Palya, Balkuwa, Tallon, Pipari, Kundiya, BhilKheda, Rahgun, Sanjwani, Borlai, Dhanora, Kari, Bagud. Piplad, Lonsara, Silawad, Utawad, Badwani.Charankheda, Nani Barwani, Sindhi Khodra,Koydiya, Ambapani,Bhawati, Hirakray, holgaon, Lonsara Khurd, Piplaj, TalwadaBujurg	Soybean, Cotton, Wheat, Chickpea, Pigeon pea, Green gram, Chilli, Onion, Custard apple,	- Lack of knowledge and skill about modern farm technology among farmers of the district, especially tribal farmers. - Area and productivity of cereal and oilseed crops, particularly soybean is towards declining trend. Farmers are in search of other alternate cropping systems. - Undulated, eroded	- To popularize Natural farming /Organic farming in the district. - To Popularize Millet cultivation - Increase production and productivity of crops - Income generation activities for empowerment of rural youth
2	Thikari	Thikari	Anjad, Fatyapur, Barla, Surana, Haribad, Mandwada, Bawadia, Kuwa, Dawana, Kerwa, Keshawpura, Mohipura, Datwada,Chakari, Abheli,Panaya,Fayayapur			
3	Rajpur	Rajpur	Chhotikhargone, Singun, Mandil, Semalkhodra, Nandgaon, Pulsud, Rajpur,Mandwadi, Chottikhargone,			

			Narwala, Waswi,Sangaw,Inadarpur(Rehatiya), Limbai, Mundla, Sidadi			
4	Pansemal	Pansemal	Pansemal,Oswada, Sakrali Kurd, Piprani, SakraliBujurag, Nandiyabad, Matrala, Wangra			
5	Sendhwa	Sendhwa	Balwadi, Sendhwa,Dhwada, Pendarniya.Kalada, Borli, Dhanora, PipliyaGoi, Umari UrfLakdiya, Tighali, Ghaghar Kheda, Jhopali			
6	Niwali	Niwali	Niwali,Rajmalivan, Morgun, Badgaon, Dogaliyapani, GumadyaBuzurg			
7	Pati	Pati	Pati, Bokrata,Ghungshshi,Junazira, Kadwalaya, Osada, Bokrata, Ubadgarh, Sindhi- Khodri, Derwaliya, Sawariyapani, Charpatiya			
8	Anjad	Badwani				
9	Varla	Sendhwa				
					and infertile soil in some parts of the district call for a special management technique so as to make agriculture more remunerative. - Indiscriminate and non-judicious use of pesticides, especially in cotton, chilly and pulses increased the cost of cultivation with less desired pest management. - Inappropriate water management practices for optimum yields. - Imbalance use of nutrients without supplement with organic manure resulted in poor status of soil. - Intensive cropping and poor soil workability resulted in increased weed problem and weeds shift. - The problem associated with disease and insect management particularly rust in soybean, loose smut in wheat, wilt in gram, powdery mildew in pea, Heliothis in gram and pod borer complex in pigeon pea and cotton is alarming. - Area under vegetable and fruit crops is meager. There is enough scope of expansion of these crops in the district for making the farming enterprise more productive and	- Drudgery reduction for farm women - To create awareness about value addition & Processing - Integrated Disease & Pest Management - Integrated Crop Management - Hi tech Horticulture & Cultivation of fruits and vegetables

					profitable. • Looking to status of farmwomen, there is the need to upgrade the skill and attitude for income and employment generation through value. • The productivity of milk animals is low and hence need technical support.	

Priority / Thrust areas

S. No.	Particulars
1.	To popularize Natural farming /Organic farming in the district.
2.	To Popularize Millet cultivation
3.	Increase production and productivity of crops
4.	Income generation activities for empowerment of rural youth
5.	Drudgery reduction for farm women
6.	To create awareness about value addition & Processing.
7.	Integrated Disease & Pest Management
8.	Integrated Crop Management
9.	Hi tech Horticulture & Cultivation of fruits and vegetables

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					Supply of seeds, planting materials etc.
				Title of OFT if any	Title of FL D if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	
1		Chilli	Viral disease is causing severe yield loss in chilli	Assessment of eco-friendly practices for vector borne viral disease in hybrid chilli	-	-	1	2	Neem Cake, Neem oil, Yellow & Blue Sticky Trap
2		Ginger	Spices Based Cropping System and IDM	Assessment of IDM module in management of soft rot disease in Ginger crop	-	-	2	5	Metalaxyl-Mancozeb 0.12 5%
3		Bottle gourd	Low productivity of Bottle-gourd	Assessment of Improved Bottlegourd variety in Vegetable based cropping system	-	-	0	2	Seed material of variety Kashi Ganga & Kashi Kirti
4		Okra	Low productivity of okra	Assessment of effect of Fertigation on growth, yield and quality of hybrid Okra	-	-	1	2	water soluble fertilizer (WSF, 19:19:19)
5		Brinjal	Viral disease is causing severe yield loss in Brinjal	Assessment of water soaked Nicotiana tobaccum to control shoot and fruit borer in brinjal.	-	-	0	2	Tobacco leaf powder
6		Cotton	Use of high cost and low quality of cotton, inorganic nutrient management.	Assessment of organic cotton production in Nimar region.	-	-	0	2	Azetobacter & PSB

7		Soybean	No appropriate data of new sowing techniques in Soybean after replacement of traditional methods	Impact assessment of Sowing technique of ridge and furrow in Soybean in special reference of KVK intervention.	-	-	1	2	
8		Chickpea	No appropriate data on use Ammonium Molybdate in chickpea.	Assessment on effect of Ammonium Molybdate for enhancing symbiotic traits & yield of chickpea	-	-	1	2	
		Wheat	Poor soil health, high cost of cultivation and poor quality produce	Assessment of effective extension methods for TOT of Natural Farming in Wheat	-	-	0	2	

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
IWM	-	-	-	-	Kharif Onion,	-	-	-	-	1
IPM	-	-	-	-	Hy. Chilli	-	-	-	-	1
Weed Management/ Resource Conservation	-	-	-	-	Hy. Tomato	-	-	-	-	1

Nutrient Management/ Precision Farming	-	-	-	-	Hy. Tomato	-	-	-	-	1
TOTAL	-	-	-	-	4	-	-	-	-	4

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
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
TOTAL	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Chilli	
Title of on farm trial	Assessment of eco-friendly practices for vector borne viral disease in hybrid chilli	
Problem diagnosed	Viral disease is causing severe yield loss in chilli	
Farmers' Practices	Spray of chemicals like imidacloprid, fipronil etc.	
Details of technologies selectedfor assessment	T ₁	Farmers Practice- Spray of chemicals like imidacloprid, fipronil etc.
	T ₂	Recommended Practice- Spray of chemicals like Imidacloprid 0.5 ml/l, fipronil 1.5 ml/l+ Neem oil @ 5 ml/L.
Source of technology	IIVR - 2017	
Plot size		
No. of farmers	12	
Total cost	12000/- (Total area to be covered 3.00 ha or 30,000 sqMt.)	

Critical input	Neem Cake, Neem oil, Yellow & Blue Sticky Trap
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of infested plant /5sqm, Fruit weight gm, Disease incidence percent, Yield q/ha

OFT-2

Crop / Enterprise	Ginger	
Title of on farm trial	Assessment of IDM module in management of soft rot disease in Ginger crop	
Problem diagnosed	Spices Based Cropping System and IDM	
Farmers' Practices	Spray of fungicides like Mancozeb etc.	
Details of technologies selectedfor assessment	T ₁	Farmers Practice- Spray of fungicides like Mancozeb etc.
	T ₂	Seed (Rhizome) Treatment with Mancozeb 0.3% or Metalaxyl-Mancozeb 0.12 5% for 30 min
Source of technology	ICAR-IISR, Calicut (Kerala) 2018	
Plot size		
No. of farmers	12	
Total cost	Rs. 9000 - 10000/- (approximate)	
Critical input	Metalaxyl-Mancozeb 0.12 5%	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No. of infested plants /per mt. row length, No. of healthy Plants /per mt. row length Fruit weight gm, Yield q/ha	

OFT-3

Crop / Enterprise	Bottle Gourd	
Title of on farm trial	Assessment of Improved Bottlegourd variety in Vegetable based cropping system	
Problem diagnosed	Low productivity of Bottle-gourd	
Farmers' Practices	Use of local variety Tumdi	
Details of technologies selectedfor assessment	This is an early variety derived from the cross IC-92465 x DVBG-151. Fruits are light green, length 30 cm, diameter 7 cm, fruit weight 800-900 g and yield 480-550 q/ha. It is tolerant to anthracnose and suitable for rainy and summer season cultivation. This has been identified by UP State Horticultural Seed Sub Committee and notified during the XII meeting of Central Sub Committee on Crop Standard Notification and Release of Varieties for Horticultural Crops	
	T ₁	Farmers Practice- local variety Tumdi.
	T ₂	Improved variety - Kashi Kirti
Source of technology	ICAR-IIVR, Varanasi-2017	
Plot size		
No. of farmers	12	
Total cost	Rs. 7000 to 8000/-	

Critical input	Seed material of variety Kashi Ganga & Kashi Kirti
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Days to First Flower (in Days after Sowing), Average fruit wt. (gm) Yield q/ha

OFT-4

Crop / Enterprise	Hy. Okra	
Title of on farm trial	Assessment of effect of Fertigation on growth, yield and quality of hybrid Okra	
Problem diagnosed	Low productivity of okra	
Farmers' Practices	Application of Imbalanced dose of fertilizer through fertigation	
Details of technologies selected for assessment	Raised bed+Plastic mulching+Fertigation+Foliar spray of water soluble fertilizer (WSF, 19:19:19 @ 10 gm/lit 5 times)+ Mixture of all micro nutrients	
	T ₁	Farmers Practice- Seed sowing on Raised bed +Mulching.
	T ₂	Seed sowing on Raised bed+Plastic mulching+Fertigation+Foliar spray of water soluble fertilizer (WSF, 19:19:19 @ 10 gm/lit 5 times).
Source of technology	TNAU-Coimbatore-2017	
Plot size		
No. of farmers	12	
Total cost	7000.00	
Critical input	water soluble fertilizer (WSF, 19:19:19)	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No. of fruits plants /per mt. Av. Fruit weight /gm, Yield q/ha, C:B Ratio	

OFT-5

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of water soaked Nicotiana tabacum to control shoot and fruit borer in brinjal.	
Problem diagnosed	Viral disease is causing severe yield loss in Brinjal	
Farmers' Practices	Spray of chemicals like imidacloprid, fipronil etc.	
Details of technologies selected for assessment	Tobacco is soaked in water in the ratio of 1 : 10 overnight and the extracted liquid is filtered through fine cotton cloth. The filtered material is sprayed either with spray machine or fine broom. Before spraying, 1-2 teaspoonful detergent powder is mixed in the filtered liquid.	
	T ₁	Farmers Practice- Spray of chemicals like Cypermethrine, Trizophos, Acetamipride etc.
	T ₂	Recommended Practice- Neem oil @ 5 ml/L.

Source of technology	Traditional Know. In Agri. –Book by ICAR year -2020
Plot size	2000 SqMt. each trial
No. of farmers	12
Total cost	6000/-
Critical input	Tobacco leaf powder
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	No. of infested fruits /per mt. row length, No. of healthy fruits /per mt. row length Fruit weight gm, Yield q/ha

OFT-6

Crop / Enterprise	Cotton	
Title of on farm trial	Assessment of organic cotton production in Nimar region.	
Problem diagnosed	Use of high cost and low quality of cotton, inorganic nutrient management.	
Farmers' Practices	Use of Chemical fertilizer	
Details of technologies selected for assessment	T ₁	Farmer practice
	T ₂	Seed treatment with Bio-fertilizer +T ₁
Source of technology	CICR- Nagpur, 2020	
Plot size	0.4	
No. of farmers	12	
Total cost	Rs. 2000.00	
Critical input	Azetobacter & PSB	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	No. of balls / plant, Seed cotton yield kg/ha, GMR, NMR, BC ratio	

Detailed Information about OFT:

OFT-1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of eco-friendly practices for vector borne viral disease in hybrid chilli
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Viral disease is causing severe yield loss in chilli

Thematic area:	Natural Farming
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice- Spray of chemicals like imidacloprid, fipronil etc.
T2 –Recommended Practice-	Recommended Practice- Spray of chemicals like Imidacloprid 0.5 ml/l, fipronil 1.5 ml/l+ Neem oil @ 5 ml/L.
T3- Recommended Practice-	Recommended Practice-Application of neem cake @ 1.0 kg/m ² in the seed bed + 2 row of maize as border crop+ installation of yellow/blue sticky trap @ 25/ ha+ Neem oil @ 2 ml/L at 7 days interval till fruit formation
Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR - 2017
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of IDM module in management of soft rot disease in Ginger crop
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Quality deterioration and loss in yield due to rotting in Rhizomes
Thematic area:	IDM
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice- Spray of fungicides like Mancozeb etc.
T2 –Recommended Practice-	Seed (Rhizome) Treatment with Mancozeb 0.3% or Metalaxyl-Mancozeb 0.12 5% for 30 min
T3- Recommended Practice-	Select well drained Soil +Seed (Rhizome) Treatment with Mancozeb 0.3% or Metalaxyl-Mancozeb 0.12 5% for 30 min+ Apply Trichoderma harzianum along with Neem cake @1.0Kg per Sqm.
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISR, Calicut (Kerala) 2018
Characteristics of technology:	

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

OFT-3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Improved Bottlegourd variety in Vegetable based cropping system
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Low productivity of Bottle-gourd
Thematic area:	ICM
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice- local variety Tumdi.
T2 –Recommended Practice-	Improved variety - Kashi Kirti
T3- Recommended Practice-	Improved variety Kashi Ganga
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IIVR, Varanasi-2017
Characteristics of technology:	
Name of Crop/Enterprises:	Bottle Gourd
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of effect of Fertigation on growth, yield and quality of hybrid Okra
Year/Season:	Rabi -2023
Farming situation:	Irrigated
Problem diagnosis:	Low productivity of okra
Thematic area:	Resource conservation/ Precision Farming
No of trials:	12

No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice- Seed sowing on Raised bed +Mulching.
T2 –Recommended Practice-	Seed sowing on Raised bed+Plastic mulching+Fertigation+Foliar spray of water soluble fertilizer (WSF, 19:19:19 @ 10 gm/lit 5 times).
T3- Recommended Practice-	Seed sowing on Raised bed +Plastic mulching+Fertigation+Foliar spray of water soluble fertilizer (WSF, 19:19:19 @ 10 gm/lit 5 times)+ Mixture of all micro nutrients.
Date of sowing:	
Date of harvesting:	
Source of technology:	TNAU-Coimbtore-2017
Characteristics of technology:	
Name of Crop/Enterprises:	Hy. Okra
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of water soaked Nicotiana tobaccum to control shoot and fruit borer in brinjal.
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Viral disease is causing severe yield loss in Brinjal
Thematic area:	Natural Farming
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Tobacco is soaked in water in the ratio of 1 : 10 overnight and the extracted liquid is filtered through fine cotton cloth. The filtered material is sprayed either with spray machine or fine broom. Before spraying, 1-2 teaspoonful detergent powder is mixed in the filtered liquid. Farmers Practice- Spray of chemicals like Cypermethrine, Trizophos, Acetamipride etc
T2 –Recommended Practice-	Recommended Practice- Neem oil @ 5 ml/L.
T3- Recommended Practice-	Recommended Practice-Spray of Tobacco leaf powder extract.
Date of sowing:	
Date of harvesting:	
Source of technology:	Traditional Know. In Agri. –Book by ICAR year -2020
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-6

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of organic cotton production in Nimar region
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Use of high cost and low quality of cotton, inorganic nutrient management.

Thematic area:	Organic Farming
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice
T2 –Recommended Practice-	Seed treatment with Bio-fertilizer +T1
T3- Recommended Practice-	Seed treatment with Azetobacter +PSB @ 10/kg seed +FYM 5 t/ha + Neem Oil Spray 5ml/L+ Pheromone trap
Date of sowing:	
Date of harvesting:	
Source of technology:	CICR- Nagpur, 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Cotton
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7

Information about Extension OFT:

Title	Impact assessment of Sowing technique of ridge and furrow in Soybean in special reference of KVK intervention.
Season & Year	Kharif 2023
Problem identified	No appropriate data of new sowing techniques in Soybean after replacement of traditional methods
Thematic Area	TOT
Farming situation	Irrigated
Name of Technology Intervention under study	Impact of raised bed furrow system through random survey method
Farmers Practice	Seed drill
No. of replication (Farmers)	120 (Respondent) Village-06 (20 farmers from each village)

Results / findings

Performance indicators/ parameters	Unit/ details
Parameters	• Yield • Perception • Applicability • constraints

OFT-8

Information about Extension OFT:

Title	Assessment on effect of Ammonium Molybdate for enhancing symbiotic traits & yield of chickpea
Season & Year	Rabi 2023
Problem identified	No appropriate data on use Ammonium Molybdate in chickpea.
Thematic Area	TOT
Farming situation	Irrigated
Name of Technology Intervention under study	Random survey techniques through respondents
Farmers Practice	Injudicious use of fertilizer
No. of replication (Farmers)	100 (Respondent) Village-05 (20 farmers from each village)

Results / findings

Performance indicators/ parameters	Unit/ details
Parameters	▪ No. of Nodules/plant, No. of branches / plant, No. of pods / plant, Yield q/ha, BC ratio

	• Knowledge level • Adoption level • Applicability • Feedback

OFT-9

Information about Extension OFT:

Title	Assessment of effective extension methods for TOT of Natural Farming in Wheat
Season & Year	Rabi 2023
Problem identified	Poor soil health, high cost of cultivation and poor quality produce
Thematic Area	TOT
Farming situation	Irrigated
Name of Technology Intervention under study	Random survey techniques through respondents
Farmers Practice	Injudicious use of fertilizer
No. of replication (Farmers)	120 (Respondent)Village-10 (12 farmers from each village)

Results / findings

Performance indicators/ parameters	Unit/ details
Parameters	▪ Yield q/ha, BC ratio • Knowledge level • Adoption level • Feedback

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	Kharif Onion	IWM	Application of 0.2% Oxyflurofen 23.5 % EC before planting + one hand weeding at 40-60 days after transplanting is recommended for marketable bulb yield and weed control efficiency (65-80%).	Weedicide - Oxyflurofen 23.5 % EC	Kharif - 2023	5.00 (0.4 ha each demo. Total no. of demo 12, Total area covered under demo- 5.00 ha.)	12	-
2	Hy. Chilli	IPM	Spray neem product @ 5% or spinosad 45 SC @ 75 g a.i. / ha against thrips. Need based application of fipronil or acephate+Application of biopesticide abamectin @ 5% for mites management+ If both thrips & mites are seen together, spray of difenthiuron or fenpropathrin 30 EC @ 0.5 ml/litre +Erect pheromone traps @ 5/ ha for +Spray of dimethoate 30 EC for aphids+Yellow & Blue sticky Traps.	Neem oil and Yellow & Blue sticky Traps	Kharif & 2023-24	5.00 (0.4 ha each demo. Total no. of demo 12, Total area covered under demo- 5.00 ha.)	12	-
3	Hy. Tomato	Weed Management/ Resource Conservation	Transplanting on Raised Bed +Drip Irrigation+UV Stabilized Plastic Mulching with 30 Micron thickness and Double coloured (Silver and Black)	Plastic Mulching	Rabi & 2023-24	5.00 (0.4 ha each demo. Total no. of demo 12, Total area covered under demo- 5.00 ha.)	12	
4	Hy. Tomato	Nutrient Management/ Precision Farming	Fertilizer application through drip system at monthly intervals. Total fertilizer Urea Phosphate 151 kg+ Urea 185 kg+	NPK 19:19:19	Rabi & 2023-24	5.00 (0.4 ha each demo. Total no. of demo 12, Total area	12	-

			SOP 266.kg/ha			covered under demo-5.00 ha.)		

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	September & January	100
2	Farmers Training	8	June, July & September, October, November	160
3	Media coverage	5	June, July & September, October, November	Mass
4	Training for extension functionaries	4	June & September	80

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:Nil

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:Nil

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
Oilseed								
1	Ground	VE	IPM, Improved		Jayad-	20	50	

	nut (Jayad)		method of cultivation (Seed treatment, Nutrient management)		2023			
2	Soybean	VE	IPM, Improved method of cultivation (Line sowing, weed management)		Kharif - 2023	20	50	
3	Ground nut (Kharif)	VE	IPM, Improved method of cultivation (Seed treatment, Nutrient management)		Kharif - 2023	20	50	
Pulses								
4	Pigeon Pea		IPM, Improved method of cultivation (Line sowing, weed management)			20	50	
5	Chick pea		IPM, Improved method of cultivation (Seed treatment, Nutrient management)			20	50	
6	Green gram		IPM, Improved method of cultivation (Seed treatment, Nutrient management)			10	25	

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	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0
Water management	2	2	0	0	0	40	10	50	50
Seed production	0	0	0	0	0	0	0	0	0
Integrated Crop Management	2	2	0	0	0	40	10	50	50
Total	4	4	0	0	0	80	20	100	100
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	10	10	0	0	0	200	50	250	250
Protective cultivation (Green Houses, Shade Net etc.)	4	4	0	0	0	80	20	100	100
Total	14	14				280	70	350	350
b) Fruits									
Management of young plants/orchards	2	2	0	0	0	40	10	50	50
Total	2	2	0	0	0	40	10	50	50
c) Ornamental Plants	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
e) Tuber crops	2	2	0	0	0	40	10	50	50
Total	2	2	0	0	0	40	10	50	50
f) Spices									
Production and Management technology	7	7	0	0	0	140	35	175	175
Total	7	7	0	0	0	140	35	175	175
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
Grand total	25	25	0	0	0	500	125	625	625

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	2	2	0	0	0	40	10	50	
Soil and Water Conservation	0	0	0	0	0	0	0	0	
Integrated Nutrient Management	2	2	0	0	0	40	10	50	
Production and use of organic inputs	2	2	0	0	0	40	10	50	
Management of Problematic soils	0	0	0	0	0	0	0	0	
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	
Soil and Water Testing	0	0	0	0	0	0	0	0	
Total	6	6	0	0	0	120	30	150	
IV Livestock Production and Management									
Dairy Management	0	0	0	0	0	0	0	0	
Poultry Management	0	0	0	0	0	0	0	0	
Disease Management	0	0	0	0	0	0	0	0	
Feed management	0	0	0	0	0	0	0	0	
Production of quality animal products	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	
Value addition	0	0	0	0	0	0	0	0	
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	
Location	0	0	0	0	0	0	0	0	

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Production											
Bee-keeping	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0
Planting material production	1	2	0	0		0	0	20	5		25
Vermi-culture	2	2	0	0	0	0	0	40	10	50	50
Value addition	1	2	0	0	0	0	0	20	5	25	25
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	8	0	0	0	0	0	80	20	100	100
(C) Extension Personnel											
Productivity enhancement in field crops	0	0	0	0		0	0	0	0	0	0
Integrated Pest Management	0	0	0	0		0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	2	4	0	0	0	0	40	10	0	50	50
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	1	2	0	0	0	0	20	5	0	25	25
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	2	4	0	0	0	0	40	10	0	50	50
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	10	0	0	0	0	100	25	0	125	125

B) OFF Campus

[illegible]

Water management	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1	0	0	0	20	5	25	25
Export potential vegetables	6	6	0	0	0	120	30	150	150
Protective cultivation (Green Houses, Shade Net etc.)	1	1	0	0	0	20	5	25	25
b) Fruits									
Cultivation of Fruit	1	1	0	0	0	20	5	25	25
Management of young plants/orchards	1	1	0	0	0	20	5	25	25
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0
f) Spices	2	2	0	0	0	40	10	50	50
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management									
Soil fertility management	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0
IV Livestock Production and Management									
Dairy Management	0	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment									

TOTAL	12	12	0	0	0	240	60	300	300
(B) RURAL YOUTH									
Production of organic inputs	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
(C) Extension Personnel	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jan	Farmers & Farm Women	Improved production Technology of Gram	1	0	0	0	20	5	25	25
Dec	Farmers & Farm Women	Improved production Technology of Wheat	1	0	0	0	20	5	25	25
April, May, June	Farmers & Farm Women	Methods of soil sample collection	3	20	5	25	40	10	50	75
Horticulture										
Jan/4-01-2023	Farmers & Farm Women	Natural Farming of Vegetable crops	1	0	0	0	20	5	25	25
Jan/4-01-2023	Farmers & Farm Women	Natural Farming of Course Cereals	1	0	0	0	20	5	25	25
February/4-02-2023	Farmers & Farm Women	Natural Farming of Summer Vegetable Crops	1	0	0	0	20	5	25	25
February/4-02-2023	Farmers & Farm Women	Improved Cultivation of Hy. Okra	1	0	0	0	20	5	25	25
March/6-03-2023	Farmers & Farm Women	Nutrient management in Hy. Okra through Fertigation	1	0	0	0	20	5	25	25
April/ 3-04-2023	Farmers & Farm Women	Improved Nursery Management of Hy. Chilli	1	0	0	0				
April/12-04-	Farmers	Scientific	1	0	0	0	20	5	25	25

2023	& Farm Women	Production Technology of Bottlegourd								
May /2-05-2023	Farmers & Farm Women	Eco-friendly practices for vector borne viral disease Management in Hy. Chilli	1	0	0	0	20	5	25	25
May/4-05-2023	Farmers & Farm Women	IPM in Hy. Chilli	1	0	0	0	20	5	25	25
	Farmers & Farm Women	Natural Farming of Vegetable Crops	1	0	0	0	20	5	25	25
June/2-06-2023	Farmers & Farm Women	Improved Production Technology of <i>Kharif</i> Onion	1	0	0	0	20	5	25	25
June/6-06-2023	Farmers & Farm Women	Management of Fruit & Shoot borer in Brinjal	1	0	0	0	20	5	25	25
June/13-06-2023	Farmers & Farm Women	IDM in Ginger	1	0	0	0	20	5	25	25
July/4-07-2023	Farmers & Farm Women	Improved weed management Technology in <i>Kharif</i> Onion	1	0	0	0	20	5	25	25
July/10-07-2023	Farmers & Farm Women	Improved Production Technology of Hy. Chilli	1	0	0	0	20	5	25	25
August/2-08-2023	Farmers & Farm Women	Scientific Production Technology of Ginger	1	0	0	0	20	5	25	25
August/2-08-2023	Farmers & Farm Women	Eco-friendly practices for vector borne viral disease Management in Hy. Chill	1	0	0	0	20	5	25	25
Sept./5/09/2023	Farmers & Farm Women	Improved Prod ⁿ Technology of Hy. Tomato	1	0	0	0	20	5	25	25
Sept./5/09/2023	Farmers & Farm Women	Insect -pest Management in Cucurbits Vegetable Crops	1	0	0	0	20	5	25	25
Oct./4-10-2023	Farmers & Farm Women	Nutrient Management in Hy. Tomato through Fertigation	1	0	0	0	20	5	25	25
Oct./10-10-2023	Farmers & Farm Women	Weed management in Hy. Tomato through Plastic Mulching Technology	1	0	0	0	20	5	25	25

Nov./3-11-2023	Farmers & Farm Women	Improved Prod ⁿ Technology of Okra	1	0	0	0	20	5	25	25
Nov./3-11-2023	Farmers & Farm Women	Nutrient application in Hy. Okra through Fertigation	1	0	0	0	20	5	25	25
Nov./8-11-2023	Farmers & Farm Women	Off Season Flowering Technology in Guava	1	0	0	0	20	5	25	25
Dec./5-12-2023	Farmers & Farm Women	Irrigation Management in Banana through Drip System	1	0	0	0	20	5	25	25
Dec./5-12-2023	Farmers & Farm Women	Improved Prod ⁿ Tech. of Hy. Okra	1	0	0	0	20	5	25	25
Livestock production	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan-Dec-23 (Every month 2 nd week)	-	Organic Farming/Natural Farming	12	75	25	100	150	50	50	300
June/5-June-2023	-	Ridge & Ferrow method in soybean crop	1	0	0	0	20	5	25	25
July& Oct/10 July 2023 & 25 Oct 2023	-	Drip Irrigation Management in cotton ,Gram & Maize	2	0	0	0	40	10	50	50
Sept & Dec./ 25 Sept 2023, 12 Dec.2023	-	Method of JIVMRAT making	2	0	0	0	40	10	50	50
Feb-March-May- July- Sept /		ICT use in Agriculture	5	0	0	0	100	25	125	125
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										
Jan/17-01-2023	Farmers & Farm Women	Natural Farming of Vegetable crops	1	0	0	0	20	5	25	25
Jan/24-01-2023	-do-	Natural Farming of Course Cereals	1	0	0	0	20	5	25	25
February/13-02-2023	do-	Natural Farming of Summer Vegetable Crops	1	0	0	0	20	5	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	
February/16-02-2023	do-	Improved Cultivation of Hy. Okra	1	0	0	0	20	5	25	25
March/20-03-2023	do-	Nutrient management in Hy. Okra through Fertigation	1	0	0	0	20	5	25	25
April/ 18-04-2023	Farmers & Farm Women	Improved Nursery Management of Hy. Chilli	1	0	0	0	20	5	25	25
May /16-05-2023	Farmers & Farm Women	Eco-friendly practices for vector borne viral disease Management in Hy. Chilli	1	0	0	0	20	5	25	25
June/20-06-2023	do-	IDM in Ginger	1	0	0	0	20	5	25	25
July/18-07-2023	do-	Improved weed management Technology in <i>Kharif</i> Onion	1	0	0	0	20	5	25	25
August/17-08-2023	do-	Eco-friendly practices for vector borne viral disease Management in Hy. Chill	1	0	0	0	20	5	25	25
Sept./19/09/2023	do-	Improved Prod ⁿ Technology of Hy. Tomato	1	0	0	0	20	5	25	25
Oct./16-10-2023	do-	Weed management in Hy. Tomato through Plastic Mulching Technology	1	0	0	0	20	5	25	25
Nov./8-11-2023	do-	Off Season Flowering Technology in Guava	1	0	0	0	20	5	25	25
Dec./5-12-2023	do-	Irrigation Management in Banana through Drip System	1	0	0	0	20	5	25	25
Livestock production	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Home Science	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Plant Protection	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Agriculture Extension (Capacity Building and Group Dynamics)										
January,	-	Production and	2	0	0	0	20	5	25	25

[illegible][illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0

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	80	20	100	5	0	5	85	20	105
Kisan Mela	1	500	100	600	25	10	35	525	110	635
Kisan Ghosthi	12	240	60	300	10	0	10	250	60	310
Exhibition	4	80	20	100	25	10	35	105	30	135
Film Show	8	160	40	200	50	10	60	210	50	260
Method Demonstrations	5	100	25	125	20	5	25	120	30	150
Farmers Seminar	2	40	10	50	0	0	0	40	10	50
Workshop	2	40	10	50	0	0	0	40	10	50
Group meetings	5	100	25	125	0	0	0	100	25	125
Lectures delivered as resource persons	5	100	25	125	0	0	0	100	25	125
Newspaper coverage	50	0	0	0	0	0	0	0	0	0
Radio talks	2	0	0	0	0	0	0	0	0	0
TV talks	2	0	0	0	0	0	0	0	0	0
Popular articles	10	0	0	0	0	0	0	0	0	0
Extension Literature	5	0	0	0	0	0	0	0	0	0
Advisory Services	25	0	0	0	0	0	0	0	0	0
Scientific visit to farmers field	25	50	10	60	0	0	0	50	10	60
Farmers visit to KVK	25	500	100	600	0	0	0	500	100	600
Diagnostic visits	5	25	5	30	20	5	25	45	10	55
Exposure visits	2	50	0	50	0	0	0	50	0	50
Ex-trainees Sammelan	2	50	10	60	0	0	0	50	10	60
Soil health Camp	2	50	10	60	5	0	5	55	10	65
Animal Health Camp	2	50	10	60	5	0	5	55	10	65
Agri mobile clinic	2	50	0	50	5	0	5	55	0	55
Soil test campaigns	2	50	0	50	5	0	5	55	0	55
Farm Science Club Conveners meet	2	50	10	60	5	0	5	55	10	65
Self Help Group Conveners meetings	2	50	10	60	0	0	0	50	10	60
Mahila Mandals Conveners meetings	2	0	50	50	0	0	0	0	50	50
Celebration of important days (specify)	5	100	50	150	20	5	25	120	55	175
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	230	2765	650	3415	200	45	245	1140	645	1785

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
0	0	0	0
OILSEEDS	Soybean	RVS-24	150
PULSES	Chickpea	RVG-204	50
VEGETABLES	-	-	-
	-	-	-
	-	-	-
	-	-	-
FLOWER CROPS	-	-	-
	-	-	-
OTHERS (Specify)			

PLANTING MATERIALS

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

Bio-products

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

2	Pesticides			
3				

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

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

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

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

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

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)

1			
2			
3			
4			
5			
6			
7			
8			

1. No. of farm families selected per village :

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:...2016..

List of equipments purchased:Encl

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

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	50	-
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
Nil	Nil	Nil
Nil	Nil	Nil
Nil	Nil	Nil

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

KVK : Datia (M.P.)

Year of sanction : 2007

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr R.K.S. Tomar	KVK, Datia	9425893829	kvk.datia@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 9.18

S. No.	Item	Area (ha)
1	Under Buildings	0.87
2	Under Demonstration Units	0.77
3	Under Crops	4.5
4	Orchard/Agro-forestry	1.5
5	Others (Ponds and roads)	1.54
Total		9.18

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	2015-16			-	-	-
2	Farmers Hostel	ICAR	2015-16			-	-	-
3	Staff Quarters (6)	ICAR	2015-16			-	-	-
4	Demonstration Units (2)	RKVY	2016-17			-	-	-
5	Fencing	-				-	-	-
6	Rain Water harvesting system	Mukhyamantri Khet teerth yojna	2016-17			-	-	-
7	Threshing floor	-				-	-	-
8	Farm godown	-				-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	27.03.2008	333000		Not good
Motor Cycle 2	28.06.2010	47314		Not good
Bolero(Jeep)	30.03.2009	4444844		Not good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2015-16	-	Running
Computer, Laser Printer	2016-22	-	Running
Stabilizer 2 KVA	2020-21		Running
Inverter 600 VA (2)	-	-	Running
Inverter Battery (2)	-	-	Runing

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

Sl. No.	Tentative Date
1	June
2	September

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	Block covered : Datia Geographical area : 47.00% Major Farming systems : crop production, crop production + Animal husbandry, crop production + horticulture. Major crops : Sesame, black gram, green gram, wheat, gram and vegetables
2	AES – 2	Block covered : Seondha nad Bhander Geographical area : 53.00% Major Farming systems : crop production, crop production + Animal husbandry, crop production + horticulture. Major crops : Sesame, black gram, green gram, wheat, gram , pea and vegetables

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Topography : undulating to slopy, Soils : light (18.00%) and heavy (82.00%)
2	AES - 2	Topography : Undulating mild slopy, Soils : Light (28.00%) and heavy (72.00%)

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

Strength	Weakness	Opportunities	Threats
Good water holding capacity Good fertility level	Undulating and slopy soil	□ Good fertile soil with high holding moisture capacity	This AES is several time not suitable for ground nut , pulses due to excessive moisture . slopyness characters is affecting crop yield

AES-2 (name)

Strength	Weakness	Opportunities	Threats
Good water holding capacity 72 per cent good fertility level	Undulating and mild slopy soil	• Good fertile soil with high holding moisture capacity. Suitable for oil seed pulses and cereal crops	• Need excess water.

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	307.17
Forest	29.242
Waste Land	24.50
Other than cultivated area	5
Cultivable waste and alkaline land	5.53
Pastures	10.96
Bushes	
Current Fallow	12.86

Other Fallow	
Agricultural Land	231.20
Area Sown	284.55
Kharif	141.30
Rabi	227.61
Zaid	-
Cropping Intensity	159.44

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	105969
2	Well	59601
3	Tube well	5469
4	Ponds	1391
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light (<i>Ranker</i>)	Soils are generally red in color and very light in texture. These soils are highly deficient in nutrients with very low moisture retaining capacity which covered under order entisols and inceptisols	12.15
2	Medium (<i>Padua</i>)	Soils are light gray in color, well drained, better suited of all types of crops under irrigated conditions which covered two orders, vertisols and inceptisols	49.20
3	Heavy (<i>Kabar/Mar</i>)	Soils are black in color, possess high moisture holding capacity and have integrated of mont morillonite, little in chloride minerals which covered under the order of vertisols	133.92
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	52.5	189	3600
2	Black Gram	37.74	27.55	730
3	Groundnut	26.00	36.40	1400
4	Sesame	19.00	9.69	510
5	Soybean	0.48	0.50	1050
6	Wheat	180.40	631.4	3500
7	Chickpea	9.85	20.685	2100
8	Pea	11.50	21.85	1930
9	Mustard	15.84	17.424	1140
10	Sugarcane	7.37	442.2	60000

Horticulture Statistics District: Datia (2021-22)

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
A. Fruit crops				
1.	Guava	550	12100	22
2.	Lime and Lemon	540	7560	14
3.	Ber	350	3500	10
4.	Aonla	325	3900	12
5.	Mango	214	2566	12
6.	Pomegranate	116	1508	13
6.	Papaya	122	3660	30

7.	Jackfruit	23	345	15
8.	Other fruits	550	7150	13
	Total	2790	42289	15.15
B. Vegetable crops				
1.	Vegetable pea	1590	23850	15
2.	Okra	1025	14350	14
3.	Tomato	871	20023	23
4.	Brinjal	785	16485	21
5.	Colacassia	775	13175	17
6.	Potato	702	16146	23
7.	Onion	675	16875	25
8.	Chilli	465	7440	16
9.	Cabbage	424	8904	21
10.	Radish	410	8610	21
11.	Pumpkin	410	7380	18
12.	Cauliflower	395	7110	18
13.	Bottle gourd	367	6239	17
14.	Other vegetables	2983	45733	15.33
	Total	11877	212374	17.88
C. Spice crops				
1.	Garlic	415	4150	10
2.	Red Chilli	335	335	1
3.	Coriander	330	495	1.5
4.	Ginger	220	3000	15
5.	Turmeric	78	1794	23
6.	Other spices	1160	9668	8.33
	Total	2538	19442	7.66
D. Flower crops				
1.	Marigold	148	1776	12
2.	Rose	82	820	10
3.	Other flowers	220	1100	5
	Total	450	3696	8.21
E. Medicinal crops				
1.	All crops	2010	14070	7
	Total	2010	14070	7

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	35.4	19.2	7.9
Feb, 22	0.00	26.3	9.1
Mar, 22	0.00	34.8	15.9
Apr, 22	0.00	42.6	21.7
May, 22	1.7	43.1	26.9*
Jun, 22	105.7	40.6	27.5
July, 2022	174.7	34.3	26.9
Aug., 2022	71.0	31.7	25.1
Sept., 2022	196.7	32.7	24.6
Oct. 2022	73.9	31.7	18.9
Nov. 2022	00.0	29.9	11.7
Dec. 2022	00.0	25.5	7.1

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

Category	Population (20 th livestock censces 2019)	Production	Productivity
Cattle			
Crossbred/ Indigenous	12627/101602	334.38thousand MT	7-8 kg / 2-3 kg
Buffalo	290054		4-5 kg
Sheep			
Crossbred/ Indigenous	14309	20.59 thousand kg wool	1.3 kg
Goats	163737	0.71 thousand MT meat	12 kg
Pigs Crossbred/ Indigenous	3470	---	---
Rabbits	-	-	-
Poultry			
Hens	37947	22.93 Lakh eggs	112 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	Datia, Seondha, Bhandar	Datia, Seondha, Bhandar	Rarua Pura, Kakraua, Dera Gandhari, Sanora Barodi, Kharg Rajpur, Garera Dheer Pura, Kali Pura, Bhaguapura, Badonkala, Kewlari, Katapur Chitva	Black gram, Rice, Groundnut, Sugarcane, Wheat, Chickpea, Mustard, Field pea and vegetables	Poor fertility status of soil, Heavy runoff of rain water, Less availability of quality seeds, Non availability of location specific recommended varieties, Heavy incidence of pest and diseases, Imbalance use of fertilizer, Heavy infestation of weeds, Improper maintenance and care of milch animal.	Soil health management, Integrated nutrient management, Integrated Pest management, Feeding management through supplementation of minerals, bypaas fat, by pass protein and balance feeding in live stock, Water harvesting for recycling and ground water recharge

Priority / Thrust areas

S. No.	Particulars
1.	Soil health management
2.	Water harvesting for recycling and ground water recharge
3.	In situ soil and moisture conservation
4.	Varietal diversification.
5.	Integrated nutrient management
6.	Integrated Pest management
7.	Crop diversification
8.	Breed up gradation in buffalo, goat and cattle
9.	Health Management of live stock
10.	Green fodder availability
11.	Composite Fish Farming
12.	Income Generation of Farm Women
13.	Drudgery Reduction and Efficiency Enhancement
14.	Reduction in Malnutrition
15.	Nutritional securities at household level

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	150		

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
59	1635	146	12204

Seed Production (Qtl.)	Planting material (Nos.)
1050	3000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Soil health management	Wheat	Yield reducing in wheat (8%) due to higher temperature during milking stage	Assessment of foliar spray of potassium nitrate and cow urine at milking stage to manage drought in wheat			Soil Health Management		
		Chickpea	High cost due to use of chemical fertilizer and deterioration in soil health	Assessment of natural farming in chickpea crop					
		cabbage	Low economic return (40%) due to deterioration in quality and yield of cabbage	Assessment of foliar spray of mono potassium phosphate (0:52:34) and soil application of Jivaamrit (5%) on quality and yield of cabbage					
2	Varietal diversification.	Ash gourd			Demonstration of improved variety of Ash gourd (Kashi Surbhi)				
		Bottle gourd			Demonstration of improved variety of Bottle gourd (Kashi Ganga)				
		Marigold			Demonstration of improved variety of marigold (Pusa Bahar)				
		Radish			Demonstration of improved variety of radish (Pusa Chetki)				
3	Integrated nutrient management	Rice	Low yield (15%) of rice due to low Nitrogen use efficiency.	Assessment of nano urea on growth and yield attributes of rice					
		Groundnut	Low yield of groundnut (20%) due to imbalance use of fertilizer	Assessment of integrated nutrient management in groundnut in rainfed condition					
		Cauliflower	Low market price (30%) due to poor	Assessment of effect of sulphatic					

			quality of curd in cauliflower	fertilizer on yield and quality of early cauliflower					
		Tomato	Low economic return (30%) due to poor quality and yield of tomato	Assessment of application of bio-manure on quality and yield of tomato					
		Chick pea			Demonstration the effect of Sagarika (liquid) on chick pea				
		Rice			Demonstration of integration of NPK consortia (liquid bio fertilizer) in rice				
4	Integrated Pest management	Chilli	Low yield (25%) due to flower drop in chilli	Assessment of foliar spray of alpha naphthelic acetic acid for control of flower drop in chilli					
		Rice	Production loss 15%,	Assessment of integrated pest management technology for stem borer in Rice		Integrated pest management in rice crop	Integrated pest management in Kharif crops		
		Brinjal	Production loss 15 per cent	Assessment of integrated pest management technology for brinjal shoot and fruit borer		Integrated pest management Rabi vegetable			
		Chickpea	High cost of insecticide and Low yield of Chickpea	Assessment of natural insecticide Agniastra for Chickpea pod borer management		Integrated pest management of rabi crops	Integrated pest management in Rabi crops		
		Mustard	High cost of insecticide and Low yield (15%) of mustard	Assessment of natural insecticide Neemastra for mustard aphid management					
		Black gram			Demonstration of Integrated pest management practices for Black gram yellow mosaic virus	Integrated pest management in Black gram			
		Groundnut			Demonstration of integrated collar rot management in ground nut	Integrated pest management in Groundnut			
		Field			Demonstration	Integrated pest			

		pea			of integrated disease management of powdery mildew in field pea	management of rabi crops			
		Wheat			Demonstration of integrated flag smut disease management in wheat	Integrated pest management of rabi crops			
5	Health Management of live stock & poultry	Dairy cattle	Low milk production (20%) from high lactating Crossbred cattle (more than 8000) due to low dietary energy intake	Assessment of By Pass Fat on milk production in CB dairy cattle		•Management of dairy animals •Importance of feeding By Pass Fat on milk production in dairy CB cattle			
		Broiler poultry	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		•Backyard poultry farming			
		Cattle	Low fertility (60%) and milk production (20%) from Indigenous cattle due to lack of trace minerals. Animal affected 70%	Assessment of chelated trace minerals supplement on fertility and milk production in Indigenous cattle					
		Chabro			Demonstration of improved breed of colored poultry (Chabro) in deep liter system of poultry farming				
		Dairy buffalo			Dairy Demonstration of Albendazole for deworming in buffalo calf	•Disease management in dairy animals			
		Kadaknath			Poultry Demonstration of improved breed of poultry Kadaknath in deep liter system of poultry farming				
6	Green	Azolla	Low milk production	Assessment of Azolla as		Importance of Azolla	Recent advances in		

	fodder availability		(18%) and conception rate (40%) in buffaloes due to unavailability of quality green fodder in lean period. Animal affected 60%	green fodder on milk production and conception rate in dairy buffaloes		cultivation and feeding as green fodder in dairy buffaloes	feed and fodder production for dairy animals		
		Napier Bajra			Demonstration of round the year fodder production for dairy buffaloes.	•Feeding management in dairy animals	Breeding management of dairy animals		
7	ICT		Lack of adoption level of farmers towards Soil health card	Assessment of the adoption level of farmers towards Soil health card					
		Field pea	Yield gap between CFLD farmers and practicing farmers of field pea	Impact study of cluster frontline demonstration of Field pea					

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
INM	2	1	-	-	-	-	-	-	-	3
Natural farming	-	-	1	-	-	-	-	-	-	1
HOV	-	-	-	-	4	-	-	-	-	4
PLP	1	1	1	-	1	-	-	-	-	4
ICT	-	-	2	-	-	-	-	-	-	2
TOTAL	3	2	4	-	4	-	-	-	-	14

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Feeding management	3	-	-	-	-	-	-	3
Disease management	-	1	-	-	-	-	-	1
TOTAL	3	1	-	-	-	-	-	4

Details of On Farm Trial (OFT)

OFT-1 (Soil Science)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of nano urea on growth and yield attributes of rice	
Problem diagnosed	Low yield (15%) of rice due to low Nitrogen use efficiency. (Affected area 40000 ha)	
Farmers' Practices	225 kg urea +100kg DAP/ha after transplanting	
Details of technologies selected for assessment	T ₁	T ₂ - 100% recommended N through Urea
	T ₂	50% recommended N through Urea as basal dose + Two foliar spray of Nano urea @ 2.0 ml/liter water growth and panicle formation
Source of technology	IFFCO-2018	
Plot size	0.1ha	
No. of farmers	10	
Total cost	225	
Critical input	2250	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Grains/Panicle, 1000 test weight (g) yield (q/ha), Net return (Rs/ha), B:C ratio

OFT-2 (Soil Science)

Crop / Enterprise	Groundnut	
Title of on farm trial	Assessment of integrated nutrient management in groundnut in rainfed condition	
Problem diagnosed	Low yield of groundnut (20%) due to imbalance use of fertilizer, Affected area 9000.00ha	
Farmers' Practices	100kg DAP kg/ha at the time of sowing as a basal dose	
Details of technologies selectedfor assessment	T ₁	RDF 20:60:20:45:: NPKS kg/ha as basal dose
	T ₂	75% RDF + 5 ton FYM
Source of technology	IARI -2017	
Plot size	0.1ha	
No. of farmers	10	
Total cost	Rs. 2375	
Critical input	Fertilizers	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Initial and final soil analysis, Pod/plant (No.), 100 grain weight (g), yield (q/ha) Net return (Rs/ha), B:C ratio	

OFT-3 (Soil Science)

Crop / Enterprise	Whea	
Title of on farm trial	Assessment of foliar spray of potassium nitrate and cow urine at milking stage to manage drought in wheat	
Problem diagnosed	Yield reducing in wheat (8%) due to higher temperature during milking stage . Affected area: 60000.00ha.	
Farmers' Practices	225 kg urea +100kg DAP/ha	
Details of technologies selectedfor assessment	T ₁	T2- STV base recommended fertilizer application and 2% potassium nitrate as foliar spray at milking stage
	T ₂	STV based recommended fertilizer application + cow urine as foliar spray at milking stage
Source of technology	IISS & IARI-2018	
Plot size	0.1ha	
No. of farmers	10	
Total cost	200	
Critical input	2000	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of tillers/plant, 1000 test weight (g) yield (q/ha), Net return (Rs/ha), B:C ratio	

OFT-4 (Soil Science)

Crop / Enterprise	Chick pea	
Title of on farm trial	Assessment of natural farming in chickpea crop	
Problem diagnosed	High cost due to use of chemical fertilizer and deteoration in soil health	
Farmers' Practices	no use of fertilizers	
Details of technologies selectedfor assessment	T ₁	STV base recommended fertilizer N:P:K::20:50:20:20
	T ₂	Use of natural farming component (Bijamrit, Jivamrit, and need base natural pesticide)
Source of technology	Natural farming (Subhash Palekar)	

Plot size	0.1ha
No. of farmers	10
Total cost	100
Critical input	1000
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Initial and after harvest soil testing, pods/plant , yield/ha, Net return (Rs/ha), B:C ratio

OFT-5

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of effect of sulphatic fertilizer on yield and quality of early cauliflower
Year/Season:	Kharif, 2023
Farming situation:	Sandy loam- irrigated
Problem diagnosis:	Low market price (30%) due to poor quality of curd in cauliflower. Affected area 350 ha
Thematic area:	HOV (Micro-nutrient)
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 sulphatic fertilizer
T2 –Recommended Practice-	Soil application of SSP (45 kg/ha) at the time transplanting
T3- Recommended Practice-	Soil application of Gypsum (45 kg/ha) at the time transplanting
Date of sowing:	
Date of harvesting:	
Source of technology:	SKUAST-K, Srinagar, 2018
Characteristics of technology:	Sulphatic fertilizer
Name of Crop/Enterprises:	Early cauliflower
Performance Indicator	Yield of marketable curd (q/ha), Net return (Rs/ha) B:C ratio
Critical Input	Sulphatic fertilizer (SSP, Gypsum)
Cost of Input	Rs. 200/ trail
Total cost	Rs. 2000/-
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-6

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of foliar spray of alpha naphthelic acetic acid for control of flower drop in chilli
Year/Season:	Kharif, 2023
Farming situation:	Sandy loam- irrigated
Problem diagnosis:	Low yield (25%) due to flower drop in chilli, Affected area 450 ha
Thematic area:	HOV

No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use 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:	
Date of harvesting:	
Source of technology:	BCKV, Mohanpur, 2017
Characteristics of technology:	Plant growth harmon
Name of Crop/Enterprises:	Chilli
Performance Indicator	Flower drop (%), fruit setting (%), Fruit size (cm), yield (q/ha), Net return (Rs/ha) B:C ratio
Critical Input	Alpha naphthenic acetic acid
Cost of Input	Rs. 200/ trail
Total cost	Rs. 2000/-
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of foliar spray of mono potassium phosphate (0:52:34) and soil application of Jivaamrit (5%) on quality and yield of cabbage
Year/Season:	Rabi, 2023-24
Farming situation:	Sandy loam- irrigated
Problem diagnosis:	Low economic return (40%) due to deterioration in quality and yield of cabbage. Affected area 400 ha
Thematic area:	Irrigated-HOV
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only use off DAP fertilizers as basal dose
T2 –Recommended Practice-	Foliar spray of mono potassium phosphate (1%) at 30 DAT
T3- Recommended Practice-	Soil application of Jivaamrit (5%) at 30 DAT
Date of sowing:	
Date of harvesting:	
Source of technology:	UAS Bangalore 2019 and Palekar, S, 2006
Characteristics of technology:	Fertilizer and Bio manure
Name of Crop/Enterprises:	Cabbage
Performance Indicator	Head size (cm), Head weight (g), Yield (q/ha), Net return (Rs/ha), B:C ratio
Critical Input	Mono potassium phosphate (0:52:34) and Jivaamrit

Cost of Input	Rs. 200/ trail
Total cost	Rs. 2000/-
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-8

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of application of bio-manure on quality and yield of tomato
Year/Season:	Rabi, 2023-24
Farming situation:	Sandy loam- irrigated
Problem diagnosis:	Low economic return (30%) due to poor quality and yield of tomato. Affected area 850 ha
Thematic area:	Irrigated-HOV
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only use off DAP fertilizers as basal dose
T2 –Recommended Practice-	Foliar spray of Panchyagavya (3%) at 45 DAT
T3- Recommended Practice-	Soil application of Jivaamrit (5%) at 45 DAT
Date of sowing:	
Date of harvesting:	
Source of technology:	Palekar, S, 2006
Characteristics of technology:	Bio manure
Name of Crop/Enterprises:	Tomato
Performance Indicator	Fruit size (cm), Fruit weight (g), Yield (q/ha), Net return (Rs/ha), B:C ratio
Critical Input	Panchyagavya and Jivaamrit
Cost of Input	Rs. 200/ trail
Total cost	Rs. 2000/-
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-9

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated pest management technology for stem borer in Rice
Year/Season:	2023/ Kharif
Farming situation:	Clay loam, Irrigated
Problem diagnosis:	Production loss 15%, affected area 50000 ha

Thematic area:	PLP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Non judicious use of Insecticide
T2 –Recommended Practice-	Handpick and destroy egg masses during seedbed and transplanting, + Cut the leaf-top (5.0 cm) before transplanting, + Apply nitrogen fertilizer in split dose at recommended rate and time of application + Raise level of irrigation water periodically to submerge the eggs deposited on the lower parts of the plant + Selecting early maturity variety + Chlorantraniliprole 0.4% G 10 kg/ha spray within 50 days of sowing
T3- Recommended Practice-	T2 + Spray the insecticides Fipronil 5% SC 1000-1500 g/ha in place Chlorantraniliprole
Date of sowing:	--
Date of harvesting:	--
Source of technology:	TNAU, Tamil Nādu , 2020
Characteristics of technology:	Integrated pest management base technology
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated pest management technology for brinjal shoot and fruit borer
Year/Season:	2023/ Kharif
Farming situation:	Clay loam, Irrigated
Problem diagnosis:	Production loss 15 per cent affected area 250 ha.
Thematic area:	PLP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Non judicious use of Insecticide
T2 –Recommended Practice-	Remove the affected terminal shoot showing boreholes + Remove the affected fruits and destroy.+ Avoid continuous cropping of brinjal crop + Grow the varieties with long and narrow fruits in endemic areas + Install pheromone trap@12/ha Spray the Emamectin benzoate 5 % SG @4 g/10 lit
T3- Recommended Practice-	T 2 + Flubendiamide 20 WDG @ 7.5 g/10 lit. in place of Emamectin benzoate
Date of sowing:	--
Date of harvesting:	--

Source of technology:	TNAU, Tamil Nādu , 2020
Characteristics of technology:	Integrated pest management base technology
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of natural insecticide Agniastra for Chickpea pod borer management
Year/Season:	2023-24 / Rabi
Farming situation:	Clay loam, Irrigated
Problem diagnosis:	High cost of insecticide and Low yield of Chickpea, affected area 10000 ha.
Thematic area:	PLP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Non judicious use of Insecticide
T2 –Recommended Practice-	Summer deep ploughing + optimum seed rate +Bird purcher (50/ ha) + pheromone trap (10/ ha) + Agniastra 3.0% (spray after 20 days or binging of infestation second spray after 15 days of first spray)
T3- Recommended Practice-	Summer deep ploughing + optimum seed rate +Bird purcher (50/ ha) + pheromone trap (10/ ha) + Profenophos 50% EC@ 1 liter/ha with 500 liter water
Date of sowing:	--
Date of harvesting:	--
Source of technology:	“Kam lagat Prakratic Kheti” Book, by Acharya Devvrat, 2019
Characteristics of technology:	Integrated pest management base technology
Name of Crop/Enterprises:	Chick pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of natural insecticide Neemastra for mustard aphid management
Year/Season:	2023-24 / Rabi
Farming situation:	Clay loam, Irrigated
Problem diagnosis:	High cost of insecticide and Low yield (15%) of mustard, affected area 10000 ha.
Thematic area:	PLP
No of trials:	05

No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Non judicious use of Insecticide
T2 –Recommended Practice-	Early sowing to avoid damage + Use yellow sticky traps 10/ acre + Destroy the affected part along with aphid population in the initial stage + Neemastra (5 kg Neem leaves + 5 liter Cow urine + 1.0 kg Cow dung + 100 liter water/ acre) spray after 20 days or binging of infestation second spray after 15 days of first spray
T3- Recommended Practice-	T 2 (escape Neemastra) + Two spray of Imidachloprid 17.8%SL @ 3.0ml/15 liter water 15days interval
Date of sowing:	--
Date of harvesting:	--
Source of technology:	“Kam lagat Prakratic Kheti” Book, by Acharya Devvrat, 2019
Characteristics of technology:	Integrated pest management base technology
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -12

1	Enterprise	Crossbred cattle
2	Title of on-farm trial	Assessment of By Pass Fat on milk production in CB dairy cattle
3	Problem diagnosed	Low milk production (20%) from high lactating Crossbred cattle (more than 8000) due to low dietary energy intake
4	Farming situation	
5	Production system and thematic area	Rural smallholder dairy production system Feeding management
6	Farmers' practices	T1: Imbalance concentrate feed with wheat straw (8kg/day) and green fodder(18kg/day)
7	Details of technologies selected for assessment/refinement Treatments	T2: Recommended dose of balance concentrate feed @ 1kg / 2.5 liter of milk production + wheat straw (8kg/day) + green fodder (18kg/day). T3: T2 + supplement of bypass fat @ 10 gm / liter / animal / day after calving for two month.
8	Source of technology	NDRI , Karnal 2014
9	No. of animals	10
10	No. of farmers	10
11	Critical input	by pass fat
12	Cost of input	Rs. 750/trial for two month
13	Total cost	Rs. 7500 for 10 trail
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield (Lt./day) , fat % in milk , net return (Rs/animal), B:C ratio

OFT -13

1	Enterprise	Dairy buffaloes

2	Title of on-farm trial	Assessment of Azolla as green fodder on milk production and conception rate in dairy buffaloes
3	Problem diagnosed	Low milk production (18%) and conception rate (40%) in buffaloes due to unavailability of quality green fodder in lean period. Animal affected 60%
4	Farming situation	
5	Production system and thematic area	Rural smallholder dairy production system Feeding management
6	Farmers' practices	T1 : Imbalance Concentrate feed + wheat straw + Grazing
7	Details of technologies selected for assessment/refinement Treatments	T2: Recommended dose of balance concentrate feed @ 1kg / 2.5 liter of milk production + Feeding of 2 kg Azolla on fresh basis per animal per day for three month
8	Source of technology	NDRI 2018
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Mipatex 300 Micron HDPE Plastic Geomembrane Sheet of 12 x 5 sq feet +Azolla culture 1kg
12	Cost of input	Rs 300/trial
13	Total cost	Rs 3000 for 10 trial
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield, conception rate, net return (Rs/animal), B:C ratio

OFT -14

1	Enterprise	Broiler poultry
2	Title of on-farm trial	Assessment of tylosine sulphate for control of Chronic Respiratory Disease (CRD) in broiler poultry
3	Problem diagnosed	High mortality (30%) of broiler due to CRD in broiler poultry. Affected birds 60%
4	Farming situation	
5	Production system and thematic area	Deep liter system Disease management
6	Farmers' practices	T1: No control measure for CRD in broiler birds
7	Details of technologies selected for assessment/refinement Treatments	T2: Use of tylosine sulphate @ 2 gm / liter of water for three days thereafter 1 gm / liter of water for four days
8	Source of technology	CARI, Izzatnagar (Bareilly) 2017
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Tylosine sulphate
12	Cost of input	Rs 300/ trial
13	Total cost	Rs 3000 for 10 trials

14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Mortality (%), body wt (gm), Feed conversion ratio (%), net return (Rs/bird), B:C ratio

OFT -15

1	Enterprise	Indigenous cattle
2	Title of on-farm trial	Assessment of chelated trace minerals supplement on fertility and milk production in Indigenous cattle
3	Problem diagnosed	Low fertility (60%) and milk production (20%) from Indigenous cattle due to lack of trace minerals. Animal affected 70%
4	Farming situation	
5	Production system and thematic area	Rural smallholder dairy production system Feeding management
6	Farmers' practices	T1: No use of trace minerals in balance feed
7	Details of technologies selected for assessment/refinement Treatments	T2: Supplement of track minerals @ 40 gm / animal / day after calving up to three month
8	Source of technology	NDRI, Karnal 2012
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Chelated trace minerals supplement
12	Cost of input	Rs. 650/trial for three month
13	Total cost	Rs 6500 for 10 trials in three month
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Onset of heat after calving (days), conception rate (%), milk yield (Lt/day), net return (Rs/animal), B:C ratio

Information about Extension OFT:

Title	Assessment of the adoption level of farmers towards Soil health card
Season & Year	2023-24
Problem identified	Lack of adoption level of farmers towards Soil health card
Thematic Area	Impact of soil health card
Farming situation	All farming situation prevalent in district
Name of Technology Intervention under study	Adoption level of farmers of Soil health card
Farmers Practice	No knowledge of soil health card

No. of replication (Farmers)	150

Results / findings

Performance indicators/ parameters	Unit/ details
Horizontal spread	%
Adoption level of farmers	High/medium/low

Title	Impact study of cluster frontline demonstration of Field pea
Season & Year	2023-24
Problem identified	Yield gap between CFLD farmers and practicing farmers of field pea
Thematic Area	Impact study of technology
Farming situation	Clay loam - irrigated
Name of Technology Intervention under study	Adoption of recommended technology by CFLD village
Farmers Practice	Adoption of recommended production technology by neighbor CFLD village
No. of replication (Farmers)	200

Results / findings

Performance indicators/ parameters	Unit/ details
Technology gap	Kg/ha
Extension Gap	Kg/ha
Extension index	%
Yield,	q/ha
Net profit	Rs./ha
B:C Ratio	Ratio

Information about Home Science OFT:

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

Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for 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	INM	75% RDF + Green Manuring (Dhaincha)	Seed (Dhaindh)	Kharif 23	2.0	05	Initial and final soil testing, No. of tiller, Yield (q/ha), Net return, B:C ratio
2	Rice	INM	5 % NPK + Seedling treatment with NPK consortia @ 250ml/ha.	NPK consortia	Kharif 23	2.0	05	Initial and final soil testing, No. of tiller, Yield (q/ha), Net return, B:C ratio
3	Chick pea	INM	Foliar spray of liquid bio-fertilizes Sagarika @ 1% at flowering stage	Sagarika (liquid)	Rabi-2023-24	2.0	05	Initial and final soil testing , No. of pods/plant, grain yield / ha Net return, and B:C Ratio
4	Wheat	Precision farming	50% N as basal + Foliar spray of nano urea @ 2ml/l after first and second irrigation	Nano urea	Rabi-2023-24	2.0	05	Test weight, Nitrogen use efficiency, Yield q/ha, Net return, BC Ratio,
5	Black gram	PLP (IDM)	Resistant variety IPU 13-1 + Seed treatment with imidacloprid 600FS@ 5.0ml/kg + Recommended dose of N fertilizer + Installation of yellow sticky traps (20traps/acre)+ Two Spray of Imidachloprid 17.8 SL @ 5.0 ml / 15 L water at 15 days interval	Imidachloprid 17.8 SL	Kharif 2023	2.0	10	Disease incidence (%), Disease intensity (%), Yield q/ha, Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs./ha), BC Ratio
6	Groundnut	PLP (IDM)	Summer deep ploughing + Crop rotation + destruction of infested plant debris + seed treatment through tebuconazole 1.5 g/kg seed + spray of tebuconazole 25.9 EC @ 1.0 ml/ L water	Tebuconazole 25.9 EC	Kharif 2023	2.0	10	Disease incidence (%), Pods/Plant, Yield q/ha, Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs./ha), BC Ratio
7	Field Pea	PLP (IDM)	Sowing is done during the first week of November + two foliar	wettable sulphur 80%	Rabi 2023-24	2.0	10	Disease incidence (%), Disease intensity

			sprays at ten- day intervals, of wettable sulphur 80% @ 0.3 % starting at the onset of the disease					(%), Pod/plant Yield q/ha, Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs./ha), BC Ratio
8	Wheat	PLP (IDM)	Use of disease-free seeds that are selected from healthy crop + Seed treatment with carbendazim + mencozeb @ 2.0g/kg of seeds + Split application of nitrogen is recommended + Avoid field activities when the plants are wet + Spraying of Propiconazole 25 EC @ 1.0 ml/Lt. water	Propiconazole 25 EC	Rabi 2023-24	2.0	10	Disease incidence (%), Disease intensity (%), Yield q/ha, Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs./ha), BC Ratio
9	Pearl millet	ICM	Demonstration of pearl millet variety HHB-299 (2015)	variety HHB-299	Rabi 2023-24	2.0	10	yield (q/ha), Net return (Rs/ha), B:C ratio
10	Sorghum	ICM	Demonstration of purpose Sorghum (Jowar) variety RVJ-1862	variety RVJ-1862	Rabi 2023-24	2.0	10	yield (q/ha), Net return (Rs/ha), B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Sept. and Feb	100
2	Farmers Training	04	May, June, Oct. and Nov	100
3	Media coverage	02	Sept. and Feb.	Mass
4	Training for extension functionaries	02	May and Oct	50

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Dairy (Demonstration of round the year fodder production for dairy buffaloes)	Graded murrah Feeding @ 20 kg green fodder/animal/day round the year	10	10	Root slip of NBH + seed of Sorghum fodder (MP Chari) + Maize	Milk yield (Lt./day) , onset of heat after calving (days), conception rate (%)	Milk yield (Lt./day) , onset of heat after calving (days), conception	Milk yield (Lt./day) , onset of heat after calving (days),

				fodder (African tall) + Berseem fodder		rate (%)	conception rate (%)
Poultry Demonstration of improved breed of colored poultry (Chabro) in deep liter system of poultry farming	Poultry (Chabro) Introduction of improved breed of poultry (Chabro)	10	400	Distribution of 40 DOC of Chabro colored bird	Mortality (%), body wt (gm), FCR (%)	Mortality (%), body wt (gm), FCR (%)	Mortality (%), body wt (gm), FCR (%),
Dairy Demonstration of Albendazole for deworming in buffalo calf	Buffalo calves Albendazole syrup 1 ml / kg body wt at 10th day after birth followed by 20 th day and 30 th day	10	10	Albendazole syrup	Body wt (kg), mortality (%)	Body wt (kg), mortality (%)	Body wt (kg), mortality (%)
Poultry Demonstration of improved breed of poultry Kadakhnath in deep liter system of poultry farming	Kadakhnath Introduction of improved breed of poultry (Kadakhnath)	10	25	distribution of 25 DOC of Kadakhnath birds	Mortality (%), body wt (gm), FCR(%), Egg production,	Mortality (%), body wt (gm), FCR (%), Egg production	Mortality (%), body wt (gm), FCR(%), Egg production,

**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
Ash Gourd	Kashi Surbhi	10	10	Seed	Yield (q/ha) Net Return (Rs) B:C ratio		
Bottle Gourd	Kashi Ganga	10	10	Seed	Yield (q/ha) Net Return (Rs) B:C ratio		
Marigold	Pusa Bahar	10	10	Seed	Yield (q/ha) Net Return (Rs) B:C ratio		
Radish	Pusa Chetki	10	10	Seed	Yield (q/ha) Net Return (Rs) B:C ratio		

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Black gram	ICM	IPU 13-01 20:50:20:25 NPKS kg./ha.+ Rhizobium+ PSB@ 10g/kg seed chemical weed control imazathyper @ 0.75 g/ha at 20- 25 DAS	Seed, Imidachloprid	Kharif, 2023	20	50	Pod/plant
2	Field pea	ICM	IPFD 12-2 20:50:20::N:P:K kg./ha. + Rhizobium + PSB @ 20g./kg. Seed + Wetable sulphur @ 3.0kg/ha	Seed	Rabi 2023-24	20	50	Yield q/ha, Cost of cultivation (Rs/ha), Gross return
3	Mustard	ICM	Girraj (DRMRIJ 31) / NRCHB 101 + 80:40:20:30 :: NPKS kg/ha + Azatobactor + PSB@ 2.5 kg/ha + Seed treatment with Carbendzim + mancozeb @ 2.0 g/kg seed+ Spraying of Imidachloprid 17.8 SL 5ml/15 l water	Seed, Imidachloprid	Rabi 2023-24	20	50	Pod/plant

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	3	Sept, Feb	300
2	Farmers Training	6	July, Oct, January	300
3	Media coverage	6	Oct, January	Mass
4	Training for extension functionaries	3	July, Oct,	60

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Farming									
Water management									
Seed production									
Integrated Crop Management									
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	01	10	7	17	6	2	8	25
Protective cultivation (Green Houses, Shade Net etc.)	01	01	10	7	17	6	2	8	25
Total	02	02	20	14	34	12	4	16	50
b) Fruits									
Management of young plants/orchards	01	01	10	7	17	6	2	8	25
Total	01	01	10	7	17	6	2	8	25
c) Ornamental Plants	01	01	10	7	17	6	2	8	25
Total	01	01	10	7	17	6	2	8	25
d) Plantation crops									
Total									
e) Tuber crops	01	01	10	7	17	6	2	8	25
Total	01	01	10	7	17	6	2	8	25
f) Spices									
Production and Management technology									
Total									
g) Medicinal and Aromatic Plants									
Production and management technology	01	01	10	7	17	6	2	8	25
Total	01	01	10	7	17	6	2	8	25
Grand total (Horticulture)	06	06	60	42	102	36	12	48	150
III Soil Health and Fertility Management									
Soil fertility management	01	01	12	02	14	10	-	10	20
Soil and Water Conservation	01	01	14	--	14	09	01	10	20
Integrated Nutrient Management	01	01	13	02	15	10	-	10	20
Production and use of organic inputs	01	01	12	02	14	10	-	10	20
Management of Problematic soils	01	01	16	02	18	07	-	07	20
Micro nutrient deficiency in	01	01	12	02	14	10	-	10	20

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Productivity enhancement in field crops											
Integrated Pest Management											
Integrated Nutrient management	02	02	30	04	0	34	16	0		16	50
Protected cultivation technology	01	01	10	7	-	17	6	2	-	8	25
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production											
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL	3	3	40	11	0	51	22	2	0	24	75

B) OFF Campus

[illegible]

1. On Campus

[illegible]

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
Livestock production										
January		Importance of feeding By Pass Fat on milk production in dairy CB cattle	1	15	5	20	5	5	10	30
February		Importance of Azolla cultivation and feeding as green fodder in dairy buffaloes	1	15	5	20	5	5	10	30
March		Importance of feeding By Pass protien on milk production in CB dairy cattle	1	15	5	20	5	5	10	30
April		Importance of feeding chelated calcium supplement in dairy buffaloes	1	15	5	20	5	5	10	30
May		Importance of Hybrid Napier Grass as a fodder for dairy buffaloes.	1	15	5	20	5	5	10	30
June		Importance of urea treatment of wheat bhusa for CB cattle	1	15	5	20	5	5	10	30
July		Importance of production and feeding of green fodder Berseem (JB1) to dairy buffaloes	1	15	5	20	5	5	10	30
August		Importance of methocheleted mineral on milk production in	1	15	5	20	5	5	10	30

[illegible]

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
Livestock production										
August		Recent advances in feed and fodder production for dairy animals	2	5	15	5	20	5	5	10
September		Breeding management of dairy animals	2	5	15	5	20	5	5	10
Home Science										
Plant Protection	IPM	Integrated pest management in Kharif crops	1	17	3	20	3	2	5	25
	IPM	Integrated pest management of rabi crops	1	17	3	20	3	2	5	25
	IPM	Integrated pest management in kharif vegetable	1	17	3	20	3	2	5	25
	IPM	Integrated pest management Rabi vegetable	1	17	3	20	3	2	5	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science	01	Soil Health Management	01	15	02	17	08	0	8	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													
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	20			1000			40			1040
Kisan Mela	1			500			50			550
Kisan Ghosthi	4			300			4			304
Exhibition	5			1000			50			1050
Film Show	10			200			50			250
Method Demonstrations	2			40			4			44
Farmers Seminar	2			60			2			62
Workshop	2			200			10			210
Group meetings	2			50			4			54
Lectures delivered as resource persons	20			600						100
Newspaper coverage	Maas									
Radio talks										
TV talks										
Popular articles										
Extension Literature										
Advisory Services										
Scientific visit to farmers field	20			200			20			220
Farmers visit to KVK	50			2500			100			2600
Diagnostic visits	15			200			10			210
Exposure visits										
Ex-trainees Sammelan	2			80			4			84
Soil health Camp	2			50			4			54
Animal Health Camp	4			200			4			204
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	2			50			2			52
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Others (pl. specify)										
Total	163			7230			358			7588

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
Seed hub	Black gram	Indira urid Pratham	50
	Chick pea	RVG-204	1000
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Guava	G-27	3000 saplings
	Lime	Kagzi Lime	500 saplings
	Pomegranate	Mridula/Bhagua	500 saplings
SPICES			
VEGETABLES			
Karif 2023	Tomato	Abhilash	10000 seedlings
	Brinjal	Pusa Hy-5	10000 seedlings
	Chilli	Kranti	10000 seedlings
Rab 2023-24	Tomato	Abhilash	10000 seedlings
	Brinjal	Pusa Hy-5	10000 seedlings
	Chilli	Kranti	10000 seedlings
	Cabbage	Golden Acre	5000 seedlings
	Cauliflower	Snowball K-1	5000 seedlings
	Marigold	Pusa Narangi	3000 seedlings
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

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

LIVESTOCK

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

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

Date of start	Periodicity	Number of copies to be published
2008	January to March	500
	April to June	500
	July to September	500
	October to December	500

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case: 5 (no.)

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
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	Bahadurpur	Datia	12
2	Beekar	Bhander	15
3	Uprai	Datia	20
4	Goraghat	Datia	25
5	Nandpur	Datia	30
6	Kakraua	Datia	20
7	Kharag	Datia	25
8	Letra	Bhander	15
9	Kalipura	Bhander	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

Year of establishment: 2016-17

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	pH and conductivity meter	1	Working
2	Spectrophoto meter	1	Working
3	Flame photo meter	1	Working
4	Nitrogen analyzer	1	Working
5	Shaker machine	1	Working
6	Distillation unit	1	Working
7	Oven	1	Working
8	Distil water unit	1	Working
9	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	500	500	20	-
Water Samples	-	-	-	-
Total	500	500	20	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Agriculture extension activity
ATMA	Agriculture extension activity
Department of Horticulture	Agriculture extension activity
Department of Veterinary	Agriculture extension activity
Jilapanchaya Datia	Agriculture extension activity
Nehru Yuva Kendra	Agriculture extension activity
Women and child development	Agriculture extension activity

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes

Name of Programme	Nature of linkage
HRD	Training, interface, field day, farmer field visit and other agriculture related work

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan.2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Jal Shakti Abhiyan, PMKSN and PMFBY)	500
Feb.2023	Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY) World pulses day (10.02.23)	500 50
Mach 2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY) • World forest day (21.03.23) World Watar day (22.03.23)	600 50 50
April 2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY) World Earthday (22.04.23) World Seed day (26.04.23)	1000 50 50
May2023	* Awareness programme (Natural farming, Swacktha Missin, Millet, Watar conservation ,PMKSN and PMFBY)	1000
june2023	* Awareness programme (Natural farming, Swacktha Mission, Millets Watar conservation ,PMKSN and PMFBY) World milk day (1.06.23) Would Environment day (5.06.23)	1000 40 40
July2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY)	1000
Augt.2023	* Awareness programme	

	(Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY) • Plantation programe Partheniem Week (16-22 Agust.)	200 40 200
Sept.2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY)	350
Oct. 2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY) World kisan women day (15.10.23) World food day (16.10.23)	500 50 50
Nov. 2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY)	500
Dec.2023	* Awareness programme (Natural farming, Swacktha Missin, Millets Watar conservation ,PMKSN and PMFBY) World Soil day (5.12.23) Kisan diwas (23.12.23)	500 70 50

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sqm)
Blackgram	Kharif	Shekhar 3, Pratap urad 1, IPU 13-1 , Indra urd 1	High yielding & YMV tolerant	
Green gram	Kharif	Virat, Shika, PDM-139, TJM-3	High yielding & YMV tolerant	
Soybean	Kharif	RVS1004, JS 9305, JS 95-60	High yielding & YMV tolerant	
Sesame	Kharif	RT-351, 345, TKG-8	Drought tolerant	
Groundnut	Kharif	JGN-3, Nitya Harita	Area specific	
Paddy	Kharif	PB 1509, 1121, 1718, 1692	Area specific	
Mustard	Rabi	NRCHB 101, RH 749, RH 725, Girraj	High yielding & Area specific	
Chickpea	Rabi	RVG-204, 202, JG-16, 11	High yielding & Wilt registrant	
Wheat	Rabi	HI-1544, RVW 4106, HI 8759, 8713, Raj 4238, GW-322, 366	High yielding	
Field pea	Rabi	IPFD 12-02, 10-2, IPF 4-9 Prakash,	Area specific	
Tomato	Kharif/Rabi	Pusa Ruby, Pusa Sadabahar	High yielding & OP ver.	
		Jawahar tomato-99, Pusa hy-4, KT-4, Abhilash,	High yielding & Hy.	
Brinjal	Kharif/Rabi	JB-64, Pant Samrat, Pusa purple long	High yielding & Long shape	
		Pusa hy-5, Pant Rituraj, Pusa purple round	High yielding & Round shape	
Chilli	Kharif/Rabi	JM-218, JM-283, Pusa Jwala	High yielding & OP ver.	
		CCH-3, Kranti	High yielding & Hy.	
Cauliflower	Rabi	Early Kunwari, Pusa Early Synthetic	High yielding & Ealry	
		Pusa Snow ball-1, Pusa Snow ball-2, K-1	High yielding & Late sown	
Cabbage	Rabi	Pride of India, Golder Acre, Pusa early drum head	High yielding	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy Unit	Gir	231.70	2400 Lt.
Goattery Unit	Barbari & Jamunapari	58.00	20
Poultry Unit	Chabro & Kadaknath	150.00	1000
Fishery Unit	Fish seed	300.00	30000
Vermi compost Unit	Vermi compost	9.5	100.00 q.
Vermi culture Unit	Earth worm	9.5	50.00 kg
Azolla Unit	Azolla	26.60	500.00 kg
Mushroom Unit	Mushroom	11.10	100.00 kg
BGA Unit	BGA	14.60	100.00 kg

KVK - Dewas

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 20.489

S. No.	Item	Area (ha)
1	Under Buildings	2.489
2	Under Demonstration Units	0.40
3	Under Crops	17.00
4	Orchard/Agro-forestry	0.60
5	Others (specify)	0.00
Total		20.489

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2009	521	5145000	-	-	-
2	Farmers Hostel	ICAR	2009	330	3541000	-	-	-
3	Staff Quarters (6)	ICAR	2010	425	3100000	-	-	-
4	Demonstration Units (2)	ICAR	2017	108.90	300000	-	-	-
5	Fencing	ICAR	2005-06		80000	-	-	-
6	Rain Water harvesting system	ICAR	2009-10	270	1000000	-	-	-
7	Threshing floor	ICAR	2011-12		200000	-	-	-
8	Farm godown					-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2017	700000	4000 hours	Good Condition
Motor Cycle 2	2010	47539	30044	Poor condition
Bolero(Jeep)	2017	598607	117365	Working
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2017	96266	Working
Xerox Machine	2008	60000	Not Working
Video Camera	2008	19270	Not Working
Computer, Laser Printer	2010	38845	Working but very old

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

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

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1(Malwa Plateau)	Soybean-Wheat/Chickpea/Garlic/Onion/potato, Agriculture + Poultry /Dairy /Goatry
2	AES – 2(Nimar valley)	Soybean-Wheat/Chickpea+Green gram, Cotton-Wheat/Green gram, Agriculture + Poultry /Dairy /Goatry and Vegetable-vegetable

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 (Malwa Plateau)	Tehsil - Dewas, Tonkkhurd, Sonkach & half area of Bagli comes under Malwa plateau. The soils of this region are heavy to medium black soils.
2	AES – 2(Nimar valley)	Khategaon, Kannod and half area of Bagli comes under Nimar valley. The soils of the region are heavy and medium light. In the district light soils are 30%, medium soils are 40% and heavy soils are in 30%.

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Malwa Plateau)

Strength	Weakness	Opportunities	Threats
Good soil type good infrastructure facilities and transport	Lack of irrigation and crop diversification	Possibility of export of good produce	Uncertainty of erratic rainfall and climatic condition

AES-2 (Nimar valley)

Strength	Weakness	Opportunities	Threats
Good land holding	Lack of irrigation and crop diversification	Possibility of export of good produce	Uncertainty of erratic rainfall and climatic condition

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	701.304
Forest	206.636
Waste Land	47046
Other than cultivated area	
Cultivable waste and alkaline land	49376
Pastures	
Bushes	
Current Fallow	2825
Other Fallow	
Agricultural Land	447.622
Area Sown	432.000
Kharif	432.000
Rabi	390.000
Zaid	35.000
Cropping Intensity	198

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	14866
2	Well	106260

3	Tube well	125693
4	Ponds	14030
5	Others	52285

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Black cotton	Medium to deep derived from deccan trap which is called black cotton and classified as Vertisols. It contents 40 - 60% clay.	248.010
2	Light Soil	Having low water holding capacity. Soil depth upto 50-60 cm. In some pockets it contains murram and gravels	138.020

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	313500	5486300	17.50
2	Maize	39760	1910900	38.00
3	Black gram	12920	84000	6.50
4	Jowar	9540	181300	19.0
5	Pigeon pea	7680	96000	12.50
6	Green gram	7550	54300	7.20
7	Wheat	310000	12710000	41.00
8	Chickpea	72000	1044000	14.50
9	Mustard	2500	34750	13.90

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	27.2	22.16	13.35
Feb, 22	0	27.41	7.21
Mar, 22	2.2	35.40	12.52
Apr, 22	0	40.19	17.28
May, 22	0	40.83	24.46
Jun, 22	75	37.38	25.27
July, 2022	349.2	28.44	23.23
Aug., 2022	541.6	29.00	22.31
Sept., 2022	168.4	31.05	21.83
Oct. 2022	66.4	31.06	16.79
Nov. 2022	0	28.86	11.02
Dec. 2022	1	25.91	10.74

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/</i>	12989	14222955 lit./year	3 lit./day
<i>Indigenous</i>	348948	2791584 lit./year	8 lit/day
Buffalo	147875	6654375	4.5 lit./day
Sheep			

<i>Crossbred/ Indigenous</i>	226/139	 MT wool	 kg
Goats	148947	112800Metric ton meat	15.25 Kg
Pigs <i>Crossbred/ Indigenous</i>	732/5033		30 kg
Rabbits	33		
Poultry			
Hens	50172	760000 Eggs	80-120 Eggs/year
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	q/ month	 q/ ha.

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	Sonkatch	Sonkatch	Jamgod	Soybean, Chickpea wheat and vegetable	High seed rate, Use unidentified & old varieties, Injudicious use of fertilizer, Injudicious use of pesticide and Insecticide, Traditional sowing method, Unavailability of quality seed, Poor adoption of farm Mechanization, Malnutrition of Children and women, No use of Micro Nutrient fertilizer etc	Need of IPNMs (Zinc & Sulphur) which reduces crop yield., Promotion of crop, variety & agricultural diversification. Integrated Weed Management. Use of IPM module in high value crops. Nursery management, varietal promotion & appropriate planting methods for horticultural crops. Promotion of new agricultural implements. Nutritional kitchen garden, health and hygiene promotion in rural womens and childrens. Agri-based entrepreneurship development among rural youth. Capacity building and group dynamics like self help group / FPOs.
2	Sonkatch	Sonkutch	Gunai	Soybean, Chickpea wheat and vegetable		
3	Sonkatch	Sonkutch	Khonpir Pipliya	Soybean, Chickpea wheat and vegetable		
4	Sonkatch	Sonkutch	Narana	Soybean, Chickpea wheat and vegetable		
5	Sonkatch	Sonkutch	Dakachya	Soybean, Chickpea wheat and vegetable		
6	Sonkatch	Sonkutch	Polay Jagir	Soybean, Chickpea wheat and vegetable		
7	Sonkatch	Sonkutch	Arniya	Soybean, Chickpea wheat and vegetable		
8	Sonkatch	Sonkutch	Lalakhedi	Soybean, Chickpea wheat and vegetable		
9	Sonkatch	Sonkutch	Agera	Soybean, Chickpea wheat and vegetable		
10	Dewas	Dewas	Khatamba	Soybean, Chickpea wheat and vegetable		
11	Dewas	Dewas	Rajoda	Soybean, Chickpea wheat and vegetable		

S.No	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
12	Dewas	Dewas	Baloda	Soybean, Chickpea wheat and vegetable		Care & maintenance, disease, feeding & fodder management in fisheries and live stock. Sowing geometry of crops. Promotion and assurance of quality seed/sapling of major field and horticultural crops. Promotion of secondary agriculture/Value added product and market intelligence. Aware about efficient use of available water resources. Promotion of organic farming, recycling of waste & crop residue management.
13	Dewas	Dewas	Mahudiya	Soybean, Chickpea wheat and vegetable		
14	Dewas	Dewas	Sannod	Soybean, Chickpea wheat and vegetable		
15	Dewas	Dewas	Kaneriya	Soybean, Chickpea wheat and vegetable		
16	Dewas	Dewas	Agrod	Soybean, Chickpea wheat and vegetable		
17	Tonkikhurd	Tonkikhurd	Chhota Malsa	Soybean, Chickpea wheat and vegetable		
18	Tonkikhurd	Tonkikhurd	Nawda	Soybean, Chickpea wheat and vegetable		
19	Tonkikhurd	Tonkikhurd	Nandel	Soybean, Chickpea wheat and vegetable		
20	Tonkikhurd	Tonkikhurd	Kanheriya	Soybean, Chickpea wheat and vegetable		
21	Tonkikhurd	Tonkikhurd	Dehriya	Soybean, Chickpea wheat and vegetable		
22	Tonkikhurd	Tonkikhurd	Sanwarsi	Soybean, Chickpea wheat and vegetable		
23	Tonkikhurd	Tonkikhurd	Bhorasa	Soybean, Chickpea wheat and vegetable		
24	Dewas	Dewas	Bhatkhedi	Soybean, Chickpea wheat and vegetable		
25	Dewas	Dewas	Dharukhedi	Soybean, Chickpea wheat and vegetable		
26	Dewas	Dewas	Napakhedi	Soybean, Chickpea wheat and vegetable		
27	Dewas	Dewas	Morukhedi	Soybean, Chickpea wheat and		

S.No	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
				vegetable		
28	Dewas	Dewas	Badi Churali	Soybean, Chickpea wheat and vegetable		
29	Dewas	Dewas	Shadasivpura	Soybean, Chickpea wheat and vegetable		
30	Dewas	Dewas	Sulpakheda	Soybean, Chickpea wheat and vegetable		

Priority / Thrust areas

S. No.	Particulars
1.	Promotion of crop, variety & agricultural diversification.
2.	Need of IPNMs (Zinc & Sulphur) which reduces crop yield.
3.	Integrated Weed Management.
4.	Use of high yielding wilt resisting variety of chickpea
5.	Use of IPM module in high value crops.
6.	Nursery management, varietal promotion & appropriate planting methods for horticultural crops.
7.	Promotion of new agricultural implements.
8.	Nutritional kitchen garden, health and hygiene promotion in rural women and children.
9.	Agri-based entrepreneurship development among rural youth.
10.	Capacity building and group dynamics like self help group / FPOs.
11.	Care & maintenance, disease, feeding & fodder management in fisheries and live stock.
12.	Sowing geometry of crops.
13.	Promotion and assurance of quality seed/sapling of major field and horticultural crops.
14.	Promotion of secondary agriculture/Value added product and market intelligence.
15.	Aware about efficient use of available water resources
16.	Promotion of organic farming, recycling of waste & crop residue management.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
27	495	25	254

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
101	2020	289	4425

Seed Production (Qtl.)	Planting material (Nos.)
480	50000

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	IWM	Soybean	Heavy Infestation of weeds	Assessment of Propaquizafop 2.5% + Imazethapyr 3.75% herbicide for control of mix weed flora in soybean	Demonstration on Sulfentrazone 28% + Clomazone 30% WP for weed control in soybean			Field Visit	
2	VE	Soybean	Low yield due to old short duration variety suffering from biotic factors	Assessment of climatic resilient medium duration var. RVSM 11-35 of soybean				Field visit & Field day	
3	VE	Wheat	Low yield in non-bio fortified old variety (HI 1544)	Assessment of bio-fortified Wheat variety HI 1636 (Pusa Bakula) for better quality & yield				Field visit & Field day	
4	NF	Chickpea	Deterioration of soil fertility due to continuous use of fertilizers	Assessment of Jiwamrit in Chickpea crop				Field Visit	
5	NF	Soybean	High Cost of Cultivation, atmospheric pollution, human health issue in	Assessment of Zero budget Natural Farming (ZBNF) in Soybean				Field Visit	

			current conventional agriculture system						
6	INM	Maize	Poor grain setting in cobs	Assessment of water soluble fertilizer potassium 0:0:50 in Maize crop				Field Visit	
7	INM	Wheat	Deterioration of biological health of soil	Assessment of NPK consortia for fertilizer use efficiency in wheat crop				Field Visit	
8	NF	Wheat	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system	Assessment of Zero budget Natural Farming (ZBNF) in Wheat				Field Visit	
9	IPM	Soybean	Heavy losses due to infestation of stem fly and girdle beetle	Assessment of Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC for stem fly and girdle beetle in soybean				Field Visit	
10	NF	Cauliflower	Low yield due to heavy infestation of insect-pests in cauliflower	Assessment of NEEMASTRA for management of insect-pests in cauliflower				Field Visit	
11	IPM	Wheat	Low yield due to heavy infestation of root aphid	Assessment of Imidacloprid 48 FS @ 1.25ml/kg seed for management of root aphid in wheat				Field Visit	
12	NF	Tomato	Reduction of natural enemies due to indiscriminate use of insecticides	Assessment of AGNEYASTRA for management of insect-pests in tomato				Field Visit	
13	INM	Hybrid	Lack of	Assessment of				Field	

		Marigold	balance nutrient management practices leads to low yield	STV based nutrient management and biofertilizer in hybrid Marigold				ld Vi sit	
14	INM	Hybrid Tomato	Low yield due to low fertilizer use efficiency	Assessment of balanced nutrient management in tomato through fertigation				Fie ld Vi sit	
15	VE	Onion	low productivity due to adoption of old varieties	Assessment of onion varieties for higher productivity				Fie ld Vi sit	
16	INM	Garlic	Low yield and inferior quality of bulb due to no use of zinc	Assessment of zinc in garlic				Fie ld Vi sit	
17	NF	Garlic	Indiscriminate use of fertilizer resulted to health hazard	Assessment of Jiwamrit in Garlic				Fie ld Vi sit	
18	RCT	Wheat	Deterioration of soil fertility by burning of wheat crop residue	Assessment of wheat crop residue management through rotavator				Fie ld Vi sit	
19	RCT	Chickpea	Lack of irrigation water	Assessment of irrigation in alternate furrow in FIRBS technique				Fie ld Vi sit	
20	FM	Wheat	High labour cost	Assessment of reaper cum binder for harvesting				Fie ld Vi sit	
21	Fish eries	Fish	Traditional practice, low fish yield, Disease incidence	Assessment of performance of probiotics in fish culture				Fie ld Vi sit	
22	Fish eries	Fish	Depletion in oxygen, increase in ammonia, reduce growth	Assessment of Zeolite in fish pond to increase production by increasing oxygen in fish				Fie ld Vi sit	

				pond					
23	ICT	--	No authentic data available of effectiveness of virtual trainings	Assessment of effectiveness of virtual training programmes through Google meet.				Field Visit	
24	TOT	--	No appropriate data on use of sulphur in soybean.	Assessment of adoption level of Sulphur in Soybean with special reference to KVK intervention.				Field Visit	
25	TOT	Wheat	No appropriate data on use of Zinc in Wheat	Assessment of adoption level of Zinc in Wheat with special reference to KVK intervention				Field Visit	
26	TOT	Soybean	No appropriate data of new sowing techniques in Soybean after replacement of traditional methods	Impact assessment of Sowing technique of raised bed in Soybean in special reference of KVK intervention				Field Visit	
27	NS	Wheat porridge	Lack of awareness regarding healthy food	Assessment of Porridge (Durum Wheat) for nutritional security of children				Field Visit	
28	ICM	Sorghum	No Crop Diversification		Demonstration of HYV of Sorghum			Field Visit & Field day	
29	ICM	Wheat	Use of Old varieties		Demonstration of HYV of Wheat			Field Visit & Field	

								da y	
30	ICM	Mustard	No Crop Diversification		Demonstration of HYV of Mustard			Field Visit	
31	SFM	Wheat	Burning of wheat residue		Demonstration of decomposer for wheat residue management			Field Visit	
32	INM	Soybean	Imbalance use of fertilizer		Demonstration of Boron and sulphur nutrition on quality of soybean			Field Visit	
33	INM	Hybrid Maize	No use of micro nutrient		Zinc in maize crop			Field Visit	
34	INM	Wheat	No use of micro nutrient		Demonstration of Foliar spray of zinc in wheat crop			Field Visit	
35	IPM	Maize	Infestation of fall army worm		Demonstration of IPM modules for management of fall army worm in Maize			Field Visit	
36	IPM	Cauliflower	Infestation of weedicide		Demonstration of Biopesticides for management of DBM in Cauliflower			Field Visit	
37	IPM	Garlic	Infestation of thrips		Demonstration of Fipronil 5 SC insecticide for management of thrips in Garlic			Field Visit	
38	IPM	Chickpea	Infestation of pod borar		Demonstration of IPM modules for management of gram pod borer in Chickpea			Field Visit	
39	INM	Kharif Onion	Imbalance use of fertilizer		Demonstration of Zinc and sulphur in kharif onion			Field Visit	
40	INM	Chilli	No use of Micro		Demonstration of Foliar spray			Field	

			nutrient		of micro nutrient mixture in Chilli			Vi sit	
41	INM	Potato	No use of Micro nutrient		Demonstration of use of zinc in Potato			Fie ld Vi sit	
42	INM	Water Melon	No use of Micro nutrient		Demonstration of use of Boron to reduce fruit cracking in water melon			Fie ld Vi sit	
43	RCT	Tomato	Low fertilizer use efficiency		Demonstration of venturi for fertigation in tomato			Fie ld Vi sit	
44	FM	Mustard	Sowing by broadcasting		Demonstration of seed cum ferti drill for sowing of Mustard			Fie ld Vi sit	
45	RCT	Wheat	Higher cost of irrigation		Demonstration of renewable energy (solar pump) for low energy cost of irrigation			Fie ld Vi sit	
46	Fish eries	Fisheries	Low yield		Demonstration of low cost feed periphytic substance on growth and development of major carps			Fie ld Vi sit	
47	Fish eries	Fisheries	Low yield		Demonstration of growth promoter (Raa Fres AQ) on Indian Major Carps			Fie ld Vi sit	
48	IWM	Kharif crop	Unawareness about weed management			Integrated weed management in kharif crops		Fie ld Vi sit	
49	IWM	Rabi Crop	Unawareness about weed management			Integrated weed management in Rabi crops		Fie ld Vi sit	
50	ICM	Chickpea	Unawareness about the			Production technology of		Fie ld	

			latest technologies			chickpea		Vi sit	
51	ICM	Rabi Crops	Unawareness about the latest technologies			Production technology of Rabi crops	Production technology of Rabi crops	Field Vi sit	
52	ICM	Soybean	Unawareness about the latest technologies			Crop production technology of soybean	Production technology of kharif crops	Field Vi sit	
53	ICM	Kharif crops	Unawareness about the latest technologies			Agronomic practices for enhancing the productivity of kharif crops		Field Vi sit	
54	ICM	Soybean	Unawareness about the latest technologies			Seed production technology for soybean		Field Vi sit	
55	ICM	Rabi Crops	Unawareness about the latest technologies			Production technology of rabi pulses		Field Vi sit	
56	ICM	Mustard	Unawareness about the latest technologies			Production technology of mustard		Field Vi sit	
57	ICM	Wheat	Unawareness about the latest technologies			Production technology of Wheat		Field Vi sit	
58	ICM	Millets	Unawareness about the latest technologies			Scientific cultivation of major millets		Field Vi sit	
61	NF	Chickpea	Unawareness about the latest technologies			Scope and importance of natural farming		Field Vi sit	
62	ICM	Vegetables	Unawareness about the latest technologies			Production technology of important		Field Vi sit	

						Kharif vegetables			
63	ICM	Potato	Unawareness about the latest technologies			Production technology of potato		Field Visit	
64	ICM	Kharif Onion	Unawareness about the latest technologies			Kharif onion for crop diversification		Field Visit	
65		Vegetables	Unawareness about the latest technologies			Nursery Management of vegetables		Field Visit	
66	ICM	Summer vegetables	Unawareness about the latest technologies			Production technology of summer vegetables		Field Visit	
67		Fruits	Unawareness about the latest technologies			Rejuvenation of old and senile orchards for quality fruits		Field Visit	
68		Fruits	Unawareness about the latest technologies			Micro irrigation systems for orchards		Field Visit	
69	ICM	Horticultural crops	Unawareness about the latest technologies			Hi-tech Horticulture	New interventions in horticultural crops	Field Visit	
70	ICM	Fruits	Unawareness about the latest technologies			Establishment of fruit orchards		Field Visit	
71	ICM	Fruits	Unawareness about the latest technologies			High density planting techniques for establishment of new orchards		Field Visit	
72	ICM	Fruit & Vegetables	Unawareness about the latest technologies			Role of plant growth regulators in horticultural		Field Visit	

						crops			
73	ICM	Fruit & Vegetables	Unawareness about the latest technologies			Importance of Mulching in Fruit & Vegetable crops		Field Visit	
74	ICM	Garlic	Unawareness about the latest technologies			Production technology of Garlic		Field Visit	
75	ICM	Spices	Unawareness about the latest technologies			Production technology of spices		Field Visit	
76	NF		Unawareness about the latest technologies			Preparation of natural farming components		Field Visit	
77	INM	Soybean	Unawareness about the latest technologies			Role of secondary nutrient in soybean		Field Visit	
78	INM	Rabi crops	Unawareness about the latest technologies			Integrated Nutrient Management in Rabi crops		Field Visit	
79	INM	Kharif crops	Unawareness about the latest technologies			Integrated and balanced nutrition in kharif crops		Field Visit	
80	INM		Unawareness about the latest technologies			Role and importance of liquid fertilizers in crop production		Field Visit	
81	INM	Vegetables	Unawareness about the latest technologies			Role of liquid fertilizers in vegetables crops		Field Visit	
82	INM		Unawareness about the latest technologies			Method of soil samples collection for testing		Field Visit	
83	INM	Millet	Unawareness about the latest technologies			Balance use of fertilizers in millets		Field Visit	

84	INM		Unawareness about the latest technologies			Soil health card based fertilizer management in crops		Field Visit	
85	Organic Farming		Unawareness about the latest technologies			Vermi-composting for soil health management		Field Visit	
86	Nutritional security		Unawareness about the latest technologies			Importance and score of kitchen gardening		Field Visit	
87	Malnutrition		Unawareness about the latest technologies			Balance diet for children and women to eradicate the malnutrition		Field Visit	
88	Nutritional security		Unawareness about the latest technologies			Nutrition Gardens: A Sustainable Model for Food Security		Field Visit	
89	IPM		Unawareness about the latest technologies			Safe storage of house hold grain		Field Visit	
90	value addition		Unawareness about the latest technologies			Preparation of soybean based value added product		Field Visit	
91	Malnutrition		Unawareness about the latest technologies			Management of malnutrition in women & Child		Field Visit	
92	WOE		Unawareness about the latest technologies			Health and hygiene for children and women		Field Visit	
93	NRM		Unawareness about the latest technologies			Importance of Deep Tillage and Improved Implement for tillage		Field Visit	
94	NRM	Soybean	Unawareness			Improved		Field	

			about the latest technologies			Sowing Method of soybean		ld Vi sit	
95	NR M	Kharif crop	Unawareness about the latest technologies			In-situ soil moisture conservation in Kharif Crop		Fie ld Vi sit	
96	NR M		Unawareness about the latest technologies			Low Cost Rain water Harvesting Technologies		Fie ld Vi sit	
97	Micr o Irrig ation		Unawareness about the latest technologies			Installation and maintenance of Sprinkler Irrigation system		Fie ld Vi sit	
98	Micr o Irrig ation		Unawareness about the latest technologies			Installation and maintenance of Drip Irrigation system		Fie ld Vi sit	
99	NR M		Unawareness about the latest technologies			Importance and Scope of plastic mulching in Agriculture		Fie ld Vi sit	
100	Far m Mec hani zatio n	Garlic	Unawareness about the latest technologies			Improved implements of sowing in garlic	Impro ved Agricu ltural Imple ments for Moder n Agricu lture	Fie ld Vi sit	
101	NR M		Unawareness about the latest technologies			Design and Maintenance of Farm Pond		Fie ld Vi sit	
102	NR M		Unawareness about the latest technologies			Wheat Crop Residue management		Fie ld Vi sit	
103	IPM		Unawareness about the latest			Techniques of safe storage for		Fie ld Vi	

			technologies			food grains		sit	
104	IPM		Unawareness about the latest technologies			Method of seed treatment		Field Visit	
105	IPM	Soybean	Unawareness about the latest technologies			Management of insect pests & Diseases in soybean	Insect-pests & disease management in Kharif crops	Field Visit	
106	IPM	Millets	Unawareness about the latest technologies			Integrated pest management in millets		Field Visit	
107	IPM	Pigeon pea	Unawareness about the latest technologies			Management of pod bores in Pigeon pea		Field Visit	
108	IPM	Cole Crops	Unawareness about the latest technologies			Integrated pest management in cole crops		Field Visit	
109	IPM	Chickpea	Unawareness about the latest technologies			Integrated Pest Management in Chickpea	Insect-pests & disease management in Rabi crops	Field Visit	
110	IPM		Unawareness about the latest technologies			Precaution during pre & post spraying of pesticides		Field Visit	
111	IPM	Wheat	Unawareness about the latest technologies			Integrated Pest Management in wheat		Field Visit	
112	IPM	Chilli	Unawareness about the latest technologies			IPM in chilli		Field Visit	
113	IPM	Onion & Garlic	Unawareness about the			IPM in Onion and		Field	

			latest technologies			Garlic		Vi sit	
114	IPM		Unawareness about the latest technologies			Role of Eco-friendly pesticides & bio-agents and its conservation		Field Vi sit	
115	IPM		Unawareness about the latest technologies			Awareness and use of new molecules pesticides		Field Vi sit	
116	IFF	Fish	Unawareness about the latest technologies			Preparation & Maintenance of pond for fish culture		Field Vi sit	
117	IFF	Fish	Unawareness about the latest technologies			Production technology of fish farming		Field Vi sit	
118	IFF	Fish	Unawareness about the latest technologies			Preparation of pond for fish seed stocking		Field Vi sit	
119	IFF	Fish	Unawareness about the latest technologies			Fish Seed procurement and Stocking techniques for aquaculture		Field Vi sit	
120	IFF	Fish	Unawareness about the latest technologies			Feeding Management for economic fish production.		Field Vi sit	
121	IFF	Fish	Unawareness about the latest technologies			Fish diseases management for profitable aquaculture		Field Vi sit	
122	IFF	Fish	Unawareness about the latest technologies			Integrated fish farming techniques for profitable agriculture		Field Vi sit	

123	IFF	Fish	Unawareness about the latest technologies			Role of manure & fertilizer for natural fish food production		Field Visit	
124	Capacity Building		Unawareness about the Group dynamics			Group dynamics through SHGs		Field Visit	
125	Capacity Building		Unawareness about benefits of SHGs			Women Empowerment Through SHGs		Field Visit	
126	Capacity Building		Unawareness about secondary agriculture			Role of SHGs for income enhancement through agriculture commodities	Capacity building Through Self Help Groups	Field Visit	
127	Capacity Building		Unawareness about the ICT tools			Role of ICT Tools like E-Marketing, mobile app in agriculture	ICT Application for dissemination of agricultural technology	Field Visit	
128	Capacity Building		Unawareness about the Kishan Sarth			ICT Application and Kishan Sarthi Portals In Agriculture & Allied Fields		Field Visit	
129	Capacity Building		Unawareness about the latest technologies			Role of ICT tools in dissemination of agriculture technology		Field Visit	
130	Capacity Building		Unawareness about the extension			Role of extension literature in		Field Visit	

	ding		literature			disseminatio n of agriculture technology		sit	
13 1	Cap acity Buil ding		Unawareness about the Extension Approaches			Recent Extension Approaches for Effective Transfer of Technology		Fie ld Vi sit	
13 2	Cap acity Buil ding		Unawareness about Mass Media			Use of Mass Media for Transfer of Technology		Fie ld Vi sit	
13 3	Cap acity Buil ding		Unawareness about the Organic farming			Importance of Organic farming in current scenario	Why & how to doubli ng the farmer s incom e	Fie ld Vi sit	
13 4	Cap acity Buil ding		Unawareness about the sources of additional income			Agribusines s Skills among Farmers for maximizing Farm Income		Fie ld Vi sit	
13 5	Cap acity Buil ding		Unawareness about Marketing Information System			Agribusines s & Marketing Information System		Fie ld Vi sit	
13 6	Cap acity Buil ding		Unawareness about Organic Farming			Promotion of Organic Farming for Sustainable Agriculture		Fie ld Vi sit	
13 7	Cap acity Buil ding		Unawareness about Role of FPO			Role of FPO for income enhancemen t through agriculture commoditie s		Fie ld Vi sit	
13 8	Cap acity Buil ding		Unawareness about effect of Climate Change			Climate Change & its Effect on Agriculture & Allied		Fie ld Vi sit	

						Fields			

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
IWM	Wheat	Soybean	-	-	-	-	-	-	-	02
ICM	Wheat	Soybean	Chickpea	-	-	-	-	-	-	03
SFM	-	Soybean	-	-	-	-	-	-	-	01
INM	Maize, Wheat	-	-	-	Onion, Garlic, Tomato	-	Hybrid Marigold	-	-	06
IPM	Wheat	Soybean		-	Cauliflower Tomato	-	-	-	-	04
RCT	-	-	Chickpea	-	Garlic	-	-	-	-	02
FM	Wheat	-	-	-	-	-	-	-	-	01
TOTAL	06	04	02	00	06	00	01	00	00	19

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

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

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Propaquizafop 2.5% + Imazethapyr 3.75% herbicide for control of mix weed flora in soybean
Problem diagnosed	Low yield due to heavy weed infestation
Farmers' Practices	Imazethapyr 10 SL @ 1.0 lt/ha
Details of technologies selected for assessment	T1 Imazethapyr 10 SL @ 1.0 lt/ha
	T2 Propaquizafop 2.5% + Imazethapyr 3.75% @ 2.0 lt/ha
Source of technology	IISR, Indore
Plot size	0.2 ha
No. of farmers	10
Total cost	4500.00
Critical input	Propaquizafop 2.5% + Imazethapyr 3.75% @ 2.0 lt/ha
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	

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:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy weed infestation
Thematic area:	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	

OFT-2

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of climatic resilient medium duration var. RVSM 11-35 of soybean
Problem diagnosed	Low yield due to old short duration variety suffering from biotic factors
Farmers' Practices	Soybean var. JS 95-60
Details of technologies selected for assessment	T1- Soybean var. JS 95-60
	T2 - RVSM 11-35
Source of technology	RVSKVV, Gwalior
Plot size	0.2 ha
No. of farmers	10
Total cost	15300
Critical input	Seed of RVSM 11-35 variety
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Yield (q/ha), Net return (Rs/ha), B:C ratio

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of climatic resilient medium duration var. RVSM 11-35 of soybean
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old short duration variety suffering from biotic factors
Thematic area:	
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-	Soybean var. JS 95-60
T2 –Recommended Practice-	RVSM 11-35

T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of bio-fortified Wheat variety HI 1636 (Pusa Bakula) for better quality & yield
Problem diagnosed	Low yield in non-bio fortified old variety (HI 1544)
Farmers' practices	Wheat var. HI 1544
Details of technologies selected for assessment/refinement Treatments	T1- Wheat var. HI 1544 T2 - HYV HI 1636
Source of technology	IARI, Indore
Plot size	0.2 ha
No. of farmers	10
Total cost	8200
Critical input	Seed of wheat var. HI 1636 variety
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Yield (q/ha), Net return (Rs/ha), B:C ratio

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of bio-fortified Wheat variety HI 1636 (Pusa Bakula) for better quality & yield
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield in non-bio fortified old variety (HI 1544)
Thematic area:	
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- Wheat var. HI 1544
T2 –Recommended Practice-	T2 - HYV HI 1636
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	

Feedback	

OFT-4

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Jiwamrit in Chickpea crop
Problem diagnosed	Deterioration of soil fertility due to continuous use of fertilizers
Farmers' Practices	Use of fertilizer
Details of technologies selectedfor assessment	T1- Use of fertilizer
	T2- Use of jiwamrit (Cow dung, cow urine, gram floor, jaggery Soil,)
Source of technology	NCOF, Ghaziabad 2015-16
Plot size	0.2 ha
No. of farmers	05
Total cost	750
Critical input	Gram floor and Jaggery
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Yield (q/ha), Net return (Rs/ha), B:C ratio

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Jiwamrit in Chickpea crop
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Deterioration of soil fertility due to continuous use of fertilizers
Thematic area:	NF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of fertilizer
T2 –Recommended Practice-	Use of jiwamrit (Cow dung, cow urine, gram floor, jaggery Soil,)
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	

OFT-5

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Natural Farming in Soybean
Problem diagnosed	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system
Farmers' Practices	Famers are using chemicals and fertilizers
Details of technologies selectedfor assessment	T1- Famers are using chemicals and fertilizers
	T2- Bijamrit : Seed treatment @ 25 ml/kg, Ghanjivamrita : Basal dose @ 2.5-5.0 q./ha., Jivaamrit : 12.5L/ha. in 250L water at 30 DAS & 45 DAS, Nimaastra : 250L/ha.
Source of technology	NCOF Ghaziabad

Plot size	0.40 ha
No. of farmers	10
Total cost	10000
Critical input	
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	lant Height,, No. of branch/plant, No. of pods/plant, seed yield. B:C ratio, farmers reaction

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Natural Farming in Soybean
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system
Thematic area:	NF
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-	Famers are using chemicals and fertilizers
T2 –Recommended Practice-	Bijamrit : Seed treatment @ 25 ml/kg, Ghanjivamrita : Basal dose @ 2.5-5.0 q./ha., Jivaamrit : 12.5L/ha. in 250L water at 30 DAS & 45 DAS, Nimaastra : 250L/ha.
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	NCOF Ghaziabad
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-6

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of water soluble fertilizer potassium 0:0:50 in Maize crop	
Problem diagnosed	Poor grain setting in cobs	
Farmers' Practices	Imbalance use of fertilizers (100:40:00)	
Details of technologies selectedfor assessment	T1	N:P:K @ (100:40:00)
	T2	N:P:K @ 120:60:40 & 0:0:50 @ 2.5 kg /ha at silking stage
Source of technology	ICAR-IISS	
Plot size	0.40 ha	
No. of farmers	10	
Total cost	4500	
Critical input		
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Yield (q/ha), Net return (Rs/ha), B:C ratio	

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of water soluble fertilizer potassium 0:0:50 in Maize crop
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Poor grain setting in cobs
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-	N:P:K @ (100:40:00)
T2 –Recommended Practice-	N:P:K @ 120:60:40 & 0:0:50 @ 2.5 kg /ha at silking stage
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISS
Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of NPK consortia for fertilizer use efficiency in wheat crop	
Problem diagnosed	Deterioration of biological health of soil	
Farmers' Practices	Imbalance use of chemical fertilizers (170:50:16)	
Details of technologies selected for assessment	T1	N:P:K @ (170:50:16)
	T2	75% recommended dose + 2 spray of Consortia (Spray of Azotobactor, PSB and Potassium Solublizing bacteria @2.5 L /ha) at tillering stage 30-40 DAS & at milking stage 60-70 DAS
Source of technology	ICAR-IISS	
Plot size	0.20 ha	
No. of farmers	10	
Total cost	2500	
Critical input	Bio fertilizer	
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Yield (q/ha), Net return (Rs/ha), B:C ratio	

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of NPK consortia for fertilizer use efficiency in wheat crop
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Deterioration of biological health of 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-	N:P:K @ (170:50:16)
T2 –Recommended Practice-	75% recommended dose + 2 spray of Consortia (Spray of Azotobactor , PSB and Potassium Solublizing bacteria @2.5 L /ha) at tillering stage 30-40 DAS & at milking stage 60-70 DAS
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISS
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-8

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Natural Farming in Wheat
Problem diagnosed	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system
Farmers' practices	Famers are using chemicals and fertilizers
Details of technologies selected for assessment/refinement Treatments	T1- Famers are using chemicals and fertilizers T2- Bijamrit : Seed treatment @ 25 ml/kg, Ghanjivamrita : Basal dose @ 2.5-5.0 q./ha., Jivaamrit : 12.5L/ha. in 250L water at 30 DAS & 45 DAS, Nimaastra : 250L/ha.
Source of technology	NCOF Ghaziabad
Plot size	0.40 ha
No. of farmers	12
Total cost	12000
Critical input	
Performance indicators: • Technical- yield (q/ ha) • Economic Social – Employment generation	Plant Height,, No. of branch/plant, No. of pods/plant, seed yield. B:C ratio, farmers reaction

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Natural Farming in Wheat
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system
Thematic area:	NF
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Famers are using chemicals and fertilizers
T2 –Recommended Practice-	Bijamrit : Seed treatment @ 25 ml/kg, Ghanjivamrita : Basal dose @ 2.5-5.0

	q./ha., Jivaamrit : 12.5L/ha. in 250L water at 30 DAS & 45 DAS, Nimaastra : 250L/ha.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NCOF Ghaziabad
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-9

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC for stem fly and girdle beetle in soybean
Problem diagnosed	Heavy losses due to infestation of stem fly and girdle beetle
Farmers' Practices	Indiscriminate use of synthetic pyrethroid insecticides
Details of technologies selected for assessment	T1 Indiscriminate use of synthetic pyrethroid insecticides
	T2 Seed treatment of Imidacloprid 48 FS @ 1.25g/kg seed and spraying of Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC @ 125ml/ha
Source of technology	NRCS Indore 2018
Plot size	1000m ²
No. of farmers	08
Total cost	2400
Critical input	Imidacloprid 48 FS ,Thiacloprid 21.70 % SC and Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	No. of damage plants/MRL, Natural Enemies, Yield, CB Ratio

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC for stem fly and girdle beetle in soybean
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Heavy losses due to infestation of stem fly and girdle beetle
Thematic area:	IPM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of synthetic pyrethroid insecticides
T2 –Recommended Practice-	Seed treatment of Imidacloprid 48 FS @ 1.25g/kg seed and spraying of Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC @ 125ml/ha
T3- Recommended Practice-	-
Date of sowing:	

Date of harvesting:	
Source of technology:	NRCS Indore 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-10

Crop / Enterprise	Cauliflower
Title of on farm trial	Assessment of NEEMASTRA for management of insect-pests in cauliflower
Problem diagnosed	Low yield due to heavy infestation of insect-pests in cauliflower
Farmers' Practices	Heavy use of synthetic pyrethroid insecticides
Details of technologies selected for assessment	T1 Spraying of Cypermethrine 20EC @ 500 ml/ha.
	T2 Spraying of AGNEYASTRA @ 10lit/ha + pheromone trap @15/ha
	T3 Spraying of NEEMASTRA 15lit/ha + pheromone trap @15/ha
Source of technology	NCOF, Ghaziabad (2011-12)
Plot size	500m ²
No. of farmers	08
Total cost	1600
Critical input	Crush 5 kg neem leaves in water • Add 5lit cow urine and 2 kg cow dung
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	No. of DBM larvae, No. of Tobacco caterpillar, No. of aphid No. of beneficial insects, No. of DBM moth

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of NEEMASTRA for management of insect-pests in cauliflower
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy infestation of insect-pests in cauliflower
Thematic area:	NF
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spraying of Cypermethrine 20EC @ 500 ml/ha.
T2 –Recommended Practice-	Spraying of AGNEYASTRA @ 10lit/ha + pheromone trap @15/ha
T3- Recommended Practice-	Spraying of NEEMASTRA 15lit/ha + pheromone trap @15/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	NCOF, Ghaziabad (2011-12)
Characteristics of technology:	
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-11

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Imidacloprid 48 FS @ 1.25ml/kg seed for management of root aphid in wheat	
Problem diagnosed	Low yield due to heavy infestation of root aphid	
Farmers' Practices	No use of any insecticide as seed treatment	
Details of technologies selected for assessment	T1	No use of any insecticide
	T2	Seed treatment of Imidacloprid 48 FS @ 1.25ml/kg seed
Source of technology	IARI wheat, Indore, 2018	
Plot size	1000m ²	
No. of farmers	08	
Total cost	320	
Critical input	Imidacloprid 48 FS	
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	No of Infested plant/MRL	

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Imidacloprid 48 FS @ 1.25ml/kg seed for management of root aphid in wheat
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy infestation of root aphid
Thematic area:	IPM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of any insecticide
T2 –Recommended Practice-	Seed treatment of Imidacloprid 48 FS @ 1.25ml/kg seed
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI wheat, Indore, 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-12

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of AGNEYASTRA for management of insect-pests in tomato	
Problem diagnosed	Reduction of natural enemies due to indiscriminate use of insecticides	
Farmers' Practices	Indiscriminate use of chemical insecticide	
Details of technologies selected for assessment	T1	Use of chemical insecticides
	T2	Spraying of NSKE 5% at 10 to 15 days +Bird purchers 50/ha

	T3	Spraying of AGNEYASTRA @ 10lit/ha at 10 days intervals
Source of technology	NCOF, Gaziabad 2015-16	
Plot size	1000m ²	
No. of farmers	08	
Total cost	1600	
Critical input	AGNEYASTRA prepared by use of Crush 1 kg Ipomea (besaram) leaves, 500 gm hot chilli, 500 gm garlic and 5 kg neem leaves in 10 lit cow urine.	
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Yield,CB ratio, No of fruit damage/plant, Leaf minor/plant, Beneficial insects/plant	

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of AGNEYASTRA for management of insect-pests in tomato
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Reduction of natural enemies due to indiscriminate use of insecticides
Thematic area:	NF
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of chemical insecticides
T2 –Recommended Practice-	Spraying of NSKE 5% at 10 to 15 days +Bird purchers 50/ha
T3- Recommended Practice-	Spraying of AGNEYASTRA @ 10lit/ha at 10 days intervals
Date of sowing:	
Date of harvesting:	
Source of technology:	NCOF, Gaziabad 2015-16
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-13

Crop / Enterprise	Hybrid Marigold
Title of on farm trial	Assessment of STV based nutrient management and biofertilizer in hybrid Marigold
Problem diagnosed	Lack of balance nutrient management practices leads to low yield
Farmers' Practices	NPK @ 100:75:50 Kg/ha
Details of technologies selectedfor assessment	T1 NPK @ 100:75:50 Kg/ha
	T2 STV Based NPK (150:100:80 Kg/ha RDF) + Azotobacter & PSB @ 5 Kg/ha
Source of technology	IARI
Plot size	1000 sq. m
No. of farmers	05
Total cost	6325

Critical input	NPK Fertilizer, <i>Azotobacter</i> & PSB
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Plant Height (cm), Flower Diameter (cm), No. of flowers/plant, Yield (q/ha), B:C ratio

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of STV based nutrient management and biofertilizer in hybrid Marigold
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Lack of balance nutrient management practices leads to low yield
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	NPK @ 100:75:50 Kg/ha
T2 –Recommended Practice-	STV Based NPK (150:100:80 Kg/ha RDF) + <i>Azotobacter</i> & PSB @ 5 Kg/ha
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI
Characteristics of technology:	
Name of Crop/Enterprises:	Hybrid Marigold
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-14

Crop / Enterprise	Hybrid Tomato
Title of on farm trial	Assessment of balanced nutrient management in tomato through fertigation
Problem diagnosed	Low yield due to low fertilizer use efficiency
Farmers' Practices	Fertilizer application manually NPK @ 150:80:40 Kg/ha
Details of technologies selected for assessment	T1 Use of fertilizer manually (NPK @ 150:80:40 Kg/ha)
	T2 RDF i.e. 200:150:120 Kg/ha + B & Ca through Fertigation (19:19:19 @ 110 Kg/ha + 12:61:0 @ 62 Kg/ha + 13:0:45 @ 300 Kg/ha + Urea @ 223 Kg/ha + B + Ca @ 15 Kg/ha)
Source of technology	IARI
Plot size	1000 sq. m.
No. of farmers	05
Total cost	12500
Critical input	NPK (19:19:19) water soluble Fertilizer, Boron and Calcium
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Plant Height (cm), Average fruit weight (g), Yield (q/ha), B:C ratio

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of balanced nutrient management in tomato through fertigation
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to low fertilizer use efficiency
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of fertilizer manually (NPK @ 150:80:40 Kg/ha)
T2 –Recommended Practice-	RDF i.e. 200:150:120 Kg/ha + B &Ca through Fertigation (19:19:19 @ 110 Kg/ha + 12:61:0 @ 62 Kg/ha + 13:0:45 @ 300 Kg/ha + Urea @ 223 Kg/ha + B + Ca @ 15 Kg/ha)
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-15

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of onion varieties for higher productivity	
Problem diagnosed	low productivity due to adoption of old varieties	
Farmers' Practices	Agrifound Light Red	
Details of technologies selected for assessment	T1	Agrifound Light Red
	T2	NHRDF Red-2
	T3	NHRDF Red-4
Source of technology	NHRDF (2018)	
Plot size	1000 sq.m.	
No. of farmers	05	
Total cost	8000	
Critical input	NHRDF Red-2 and NHRDF Red-4 Seed	
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Bulb diameter (cm), weight of bulb (g) Yield (q/ha), B:C ratio	

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of onion varieties for higher productivity
Year/Season:	2023-24

Farming situation:	Irrigated
Problem diagnosis:	low productivity due to adoption of old varieties
Thematic area:	
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Agrifound Light Red
T2 –Recommended Practice-	NHRDF Red-2
T3- Recommended Practice-	NHRDF Red-4
Date of sowing:	
Date of harvesting:	
Source of technology:	NHRDF (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-16

Crop / Enterprise	Garlic	
Title of on farm trial	Assessment of zinc in garlic	
Problem diagnosed	Low yield and inferior quality of bulb due to no use of zinc	
Farmers' Practices	No use of zinc	
Details of technologies selected for assessment	T1	No use of zinc (N:P:K: 125:60:30 kg/ha.)
	T2	N:P:K: 100:50:50 kg/ha+ Basal application of zinc @ 5 Kg/ha
	T3	N:P:K 100:50:50 + Foliar application of zinc through chelated zinc @ 1 g/litre water
Source of technology	DoGR	
Plot size	1000 sq.m.	
No. of farmers	05	
Total cost	2500	
Critical input	Zinc Sulphate	
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Bulb weight (g), bulb size (cm), Yield (q/ha), B:C ratio	

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of zinc in garlic
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield and inferior quality of bulb due to no use of zinc
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of zinc (N:P:K: 125:60:30 kg/ha.)
T2 –Recommended Practice-	N:P:K: 100:50:50 kg/ha+ Basal application of zinc @ 5 Kg/ha
T3- Recommended Practice-	N:P:K 100:50:50 + Foliar application of zinc through chelated zinc @ 1 g/litre water
Date of sowing:	
Date of harvesting:	
Source of technology:	DoGR
Characteristics of technology:	
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-17

Crop / Enterprise	Garlic
Title of on farm trial	Assessment of Jiwamrit in Garlic
Problem diagnosed	Indiscriminate use of fertilizer resulted to health hazard
Farmers' Practices	Use of fertilizer
Details of technologies selectedfor assessment	T1 Use of fertilizer (N:P:K: 150:50:20)
	T2 Use of jiwamrit (Cow dung, cow urine, gram floor, jaggery Soil,)
Source of technology	NCOF, Gaziabad 2015-16
Plot size	0.2 ha
No. of farmers	05
Total cost	1000
Critical input	Gram floor and Jaggery
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Yield (q/ha), Net return (Rs/ha), B:C ratio

Name of Discipline	
Title of on-farm trial:	Assessment of Jiwamrit in Garlic
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Indiscriminate use of fertilizer resulted to health hazard
Thematic area:	NF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of fertilizer (N:P:K: 150:50:20)
T2 –Recommended Practice-	Use of jiwamrit (Cow dung, cow urine, gram floor, jaggery Soil,)
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	NCOF, Gaziabad 2015-16

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

OFT-18

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of wheat crop residue management through rotavator
Problem diagnosed	Deterioration of soil fertility by burning of wheat crop residue
Farmers' Practices	Burning after harvesting wheat crop
Details of technologies selected for assessment	T1 Burning of crop residue
	T2 wheat crop residue management through rotavator
Source of technology	CIAE, Bhopal
Plot size	0.40 ha
No. of farmers	10
Total cost	10000
Critical input	Use rotavator on hire basis
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Efficiency, yield

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of wheat crop residue management through rotavator
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Deterioration of soil fertility by burning of wheat crop residue
Thematic area:	RCT
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-	Burning of crop residue
T2 –Recommended Practice-	wheat crop residue management through rotavator
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	CIAE, Bhopal
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-19

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of irrigation in alternate furrow in FIRBS technique	
Problem diagnosed	Lack of irrigation water	
Farmers' Practices	Irrigation in each furrow	
Details of technologies selectedfor assessment	T1	Irrigation in Each furrow
	T2	Irrigation in Alternate furrow
Source of technology	CSWCRTI, Dehradun	
Plot size	0.40 ha	
No. of farmers	10	
Total cost	10000	
Critical input	Irrigation	
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Saving of water, Yield, B:C Ratio	

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of irrigation in alternate furrow in FIRBS technique
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Lack of irrigation water
Thematic area:	RCT
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-	Irrigation in Each furrow
T2 –Recommended Practice-	Irrigation in Alternate furrow
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	CSWCRTI, Dehradun
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-20

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of reaper cum binder for harvesting	
Problem diagnosed	High labour cost	
Farmers' Practices	Manual Harvesting	
Details of technologies selectedfor assessment	T1	Manual Harvesting
	T2	Use of reaper cum binder
Source of technology	CIAE, Bhopal	
Plot size	0.40 ha	
No. of farmers	10	
Total cost	12000	

Critical input	Use machine on hire basis
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Efficiency, Cost of harvesting

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of reaper cum binder for harvesting
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	High labour cost
Thematic area:	RCT
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-	Manual Harvesting
T2 –Recommended Practice-	Use of reaper cum binder
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	CIAE, Bhopal
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-21

Crop / Enterprise	Fish
Title of on farm trial	Assessment of performance of probiotics in fish culture
Problem diagnosed	Traditional practice, low fish yield, Disease incidence
Farmers' Practices	Fish feeding without probiotics
Details of technologies selected for assessment	T1 Fish feeding without probiotics
	T2 Application of Probiotics @420gm/ha/month after 2 Days of Manuring @5kg/ha/yr
Source of technology	College of Fisheries, Manglore
Plot size	0.10 ha
No. of farmers	02
Total cost	2000
Critical input	Probiotics
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Length (cm), Weight (gm), yield (q/ha), net return (Rs./ha), B:C ratio

Name of Discipline	Fisheries

Title of on-farm trial:	Assessment of performance of probiotics in fish culture
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Traditional practice, low fish yield, Disease incidence
Thematic area:	Fisheries
No of trials:	02
No. of farmers involved	02
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fish feeding without probiotics
T2 –Recommended Practice-	Application of Probiotics @420gm/ha/month after 2 Days of Manuring @5kg/ha/yr
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	College of Fisheries, Manglore
Characteristics of technology:	
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-22

Crop / Enterprise	Fish
Title of on farm trial	Assessment of Zeolite in fish pond to increase production by increasing oxygen in fish pond
Problem diagnosed	Depletion in oxygen, increase in ammonia, reduce growth
Farmers' Practices	Not in use zeolite for oxygen depletion
Details of technologies selected for assessment	T1 No use of zeolite for oxygen depletion
	T2 Zeolite 25 kg/ ha to increase oxygen and to reduce faecal load in pond
Source of technology	CIFA
Plot size	0.10 ha
No. of farmers	02
Total cost	1000
Critical input	zeolite
Performance indicators: • Technical- yield (q/ ha) • Economic • Social – Employment generation	Length (cm), Weight (gm), yield (q/ha), net return (Rs./ha), B:C ratio

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Zeolite in fish pond to increase production by increasing oxygen in fish pond
Year/Season:	2023-24
Farming situation:	Irrigated
Problem diagnosis:	Depletion in oxygen, increase in ammonia, reduce growth
Thematic area:	Fisheries

No of trials:	02
No. of farmers involved	02
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of zeolite for oxygen depletion
T2 –Recommended Practice-	Zeolite 25 kg/ ha to increase oxygen and to reduce faecal load in pond
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	CIFA
Characteristics of technology:	
Name of Crop/Enterprises:	Fisheries
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT: OFT-23

Title	Assessment of effectiveness of virtual training programmes through Google meet.
Season & Year	2022-23 ,Year round
Problem identified	No authentic data available of effectiveness of virtual trainings Due to pandemic situation of Covid farmers not able to come to KVK for training and other problems related with agriculture and allied sectors
Thematic Area	ICT
Farming situation	
Name of Technology Intervention under study	Personal interview schedule
Farmers Practice	Farmers use own sources
No. of replication (Farmers)	40

Results / findings

Performance indicators/ parameters	Unit/ details
- Knowledge level, - Adoption - Perception - Applicability - Feedback	Percentage

OFT-24

Title	Assessment of adoption level of Sulphur in Soybean with special reference to KVK intervention.
Season & Year	Kharif 2023
Problem identified	No appropriate data on use of sulphur in soybean.

Thematic Area	TOT
Farming situation	Irrigated
Name of Technology Intervention under study	Random survey techniques through respondents
Farmers Practice	Injudicious use of fertilizer
No. of replication (Farmers)	80 (Respondent) Village-04 (20 farmers from each village)

Results / findings

Performance indicators/ parameters	Unit/ details
- Knowledge level - Adoption level - Perception - Applicability - Feedback - Constraints	Percentage

OFT-25

Title	Assessment of adoption level of Zinc in Wheat with special reference to KVK intervention.
Season & Year	Rabi 2023
Problem identified	No appropriate data on use of Zinc in Wheat .
Thematic Area	TOT
Farming situation	Irrigated
Name of Technology Intervention under study	Random survey techniques through respondents
Farmers Practice	Injudicious use of fertilizer
No. of replication (Farmers)	80 (Respondent) Village-04 (20 farmers from each village)

Results / findings

Performance indicators/ parameters	Unit/ details
- Knowledge level - Adoption level - Perception - Applicability - Feedback - Constraints	Percentage

OFT-26

Title	Impact assessment of Sowing technique of raised bed in Soybean in special reference of KVK intervention.
Season & Year	Kharif 2023
Problem identified	No appropriate data of new sowing techniques in Soybean after replacement of traditional methods
Thematic Area	TOT
Farming situation	Irrigated

Name of Technology Intervention under study	Impact of raised bed furrow system through random survey method
Farmers Practice	Seed drill
No. of replication (Farmers)	120 (Respondent) Village-06 (20 farmers from each village)

Results / findings

Performance indicators/ parameters	Unit/ details
- Knowledge level, - Adoption level - Perception - Applicability - Feedback - constraints	Percentage

Information about Home Science OFT: OFT-27

Title of on-farm trial:	Porridge
Year/Season:	Assessment of Porridge (Durum Wheat) for nutritional security of children
Problem diagnosis:	Lack of awareness regarding healthy food
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-	Panjeeri
T2 –Recommended Practice-	Porridge (Durum Wheat)
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	
Performance indicators Observation to recorded	Body weight, Haemoglobin

Frontline Demonstrations

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	IWM	Sulfentrazone 28% + Clomazone 30% WP for weed control in soybean	Herbicide (Sulfentrazone 28% + Clomazone 30% WP)	Kharif 2023	04	10	Weed count , WCE, Yield (q/ha), Net return (Rs/ha) and B:C ratio
2	Sorghum	Crop diversification	HYV of Sorghum	Seed	Kharif 2023	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
3	Wheat	VE	HYV of Wheat	Seed (HI 1634)	Kharif 2023	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
4	Mustard	VE	HYV of Mustard	Seed	Rabi 2023-24	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
5	Wheat	SFM	Decomposer for wheat residue management	Decomposer	Rabi 2023-24	04	10	Soil health parameter
6	Soybean	INM	Boron and sulphur nutrition on quality of soybean	Bentonite sulphur & Borax	Kharif 2023	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
7	Hybrid Maize	INM	Zinc in maize crop	Zinc Sulphate	Kharif 2023	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
8	Wheat	INM	Foliar spray of zinc in wheat crop	Chelated Zinc	Rabi 2023-24	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
9	Maize	IPM	IPM modules for management of fall army worm in Maize	BT var. Kutika @ 1.0 lit/ha , Chlorantraniliprole 18.5 % @200ml/ha	Kharif 2023	01	05	No. of infested plant/MRL, No. of Larvae/plant, Yield, CB ratio
10	Cauliflower	IPM	Biopesticides for management of DBM in Cauliflower	NSKE, Beauveria bassiana , Pheromone Trap @ 10/ha	Kharif 2023	01	05	No. of DBM, Yield, CB ratio
11	Garlic	IPM	Fipronil 5 SC insecticide for management of thrips in Garlic	Fipronil + blue & yellow sticky trap	Rabi 2023-24	01	05	No. thrips/plant, Yield, CB ratio
12	Chickpea	IPM	IPM modules for management of gram pod borer in Chickpea	HaNPV 250 LE/ha and Chlorantraniliprole 18.5Sc + Pheromone trap	Rabi 2023-24	04	10	No. of larvae/MRL, Yield q/ha, CB Ratio
13	Kharif Onion	IPNM	Zinc and sulphur in kharif onion	Zinc Sulphate & Bentonite Sulphur	Kharif 2023	01	10	Size of bulb (cm), Bulb weight (g), Yield (q/ha), B : C ratio
14	Chilli	IPNM	Foliar spray of micro nutrient	micro nutrient mixture	Kharif 2023	01	10	Plant Height, Fruit length (cm), Yield

			mixture in Chilli					(q/ha), B : C ratio
15	Potato	IPNM	Use of zinc in Potato	Zinc Sulphate	Rabi 2023-24	01	10	Plant height (cm), Tuber size (cm), Tuber Yield (q/ha), B:C ratio
16	Water Melon	IPNM	Use of Boron to reduce fruit cracking in water melon	Boron	Zaid 2023-24	01	10	Fruit cracking (%), Yield (q/ha), B : C ratio
17	Tomato	TCT	Venturi for fertigation in tomato	Soluble fertilizer	Rabi 2023	0.4	10	Yield, B:C Ratio
18	Mustard	FM	Seed cum ferti drill for sowing of Mustard	Use of seed cum ferti drill on higher basis	Rabi 2023	0.4	10	Yield, B:C ration, net return
19	Wheat	RCT	Renewable energy (solar pump) for low energy cost of irrigation	-	Rabi 2023	0.4	10	Cost of irrigation
20	Fisheries	Production and Management	Low cost feed periphytic substance on growth and development of major carps	Periphytic substrate	2023	0.5	2	Growth rate, Length (cm), Weight (gm), yield (q/ha), net return (Rs./ha), B:C ratio
21	Fisheries	Production and Management	Growth promoter (Raa Fres AQ) on Indian Major Carps	Growth Promoter	2023	0.5	2	Growth rate, Length (cm), Weight (gm), yield (q/ha), net return (Rs./ha), B:C ratio

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	INM	Boron and sulphur nutrition on quality of soybean	Bentonite sulphur & Borax	Kharif 2023	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
2	Hybrid Maize	INM	Zinc in maize crop	Zinc Sulphate	Kharif 2023	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio
3	Wheat	INM	Foliar spray of zinc in wheat crop	Chelated Zinc	Rabi 2023-24	04	10	Yield (q/ha), Net return (Rs/ha) and B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	Oct, Nov, March, April and June	250
2	Farmers Training	12	Jan to Dec-2023	300
3	Media coverage	10	---	----
4	Training for extension functionaries	02	Nov and March	50

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Venturi for fertigation in tomato	Tomato	Rabi 2023	10	0.4	Soluble fertilizer	Yield, B:C Ratio		
Seed cum ferti drill for sowing of Mustard	Mustard	Rabi 2023	10	0.4	Use of seed cum ferti drill on higher basis	Yield, B:C ration, net return	Field Efficiency	
Renewable energy (solar pump) for low energy cost of irrigation	Wheat	Rabi 2023	10	0.4	---	Cost of irrigation	Labour saving	

*Field efficiency, labour saving etc.

Livestock Enterprises

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

*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	Green gram	ICM	Imp. Variety + Seed treatment + INM+ IPM	MH 421	Summer 2023	20	50	No. of pods per plant, Yield, Net return, B:C ratio
2	Soybean	ICM	Imp. Variety + Seed treatment + INM+ IPM	RVS 24	Kharif 2023	20	50	No. of pods per plant, Yield, Net return, B:C ratio
3	Chick pea	ICM	Imp. Variety + Seed treatment + INM+ IPM	RVG 204	Rabi 2023-24	20	50	No. of pods per plant, Yield, Net return, B:C ratio
4	Mustard	ICM	Imp. Variety + Seed treatment + INM+ IPM	RH-749	Rabi 2023-24	10	25	Yield, Net return, B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	May, September, January, February	100
2	Farmers Training	04	March, July, October, November,	80
3	Media coverage	04	May, September, January, February	Mass
4	Training for extension functionaries	02	July, November	40

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	02	02							40
Resource Conservation Technologies	0	0							
Integrated Farming	0	0							
Water management	0	0							
Seed production	0	0							
Integrated Crop Management	02	02							40
Total									
II Horticulture									
a) Vegetable & fruit Crops	0								
Off-season vegetables	0								
Protective cultivation (Green Houses, Shade Net etc.)	0								
Total	0								
b) Fruits									
Management of young plants/orchards	03	03							60
Total	03	03							60
c) Ornamental Plants	0	0							0
Total	0	0							0
d) Plantation crops	0	0							0
Total	0	0							0
e) Tuber crops	0	0							0
Total	0	0							0
f) Spices	0	0							0
Production and Management technology	0	0							0
Total	0	0							0
g) Medicinal and Aromatic Plants	0	0							0
Production and management technology	0	0							0
Total	0	0							0
Grand total (Horticulture)	03	03							60
III Soil Health and Fertility Management									
Soil fertility management		04							80
Soil and Water Conservation		0							
Integrated Nutrient Management		0							
Production and use of organic inputs		0							
Management of Problematic soils		0							
Micro nutrient deficiency in crops		0							
Nutrient Use Efficiency		0							
Soil and Water Testing		0							
Total									
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	
Dairy Management		0							
Poultry Management		0							
Disease Management		0							
Feed management		0							
Production of quality animal products		0							
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening		0							
Design and development of low/minimum cost diet		0							
Designing and development for high nutrient efficiency diet		0							
Minimization of nutrient loss in processing		0							
Gender mainstreaming through SHGs		0							
Value addition		0							
Income generation activities for empowerment of rural Women		0							
Location specific drudgery reduction technologies		0							
Women and child care		0							
Total		0							
VI Agril. Engineering									
Total	02	02							40
VII Plant Protection									
Integrated Pest Management	03	03							60
Integrated Disease Management	0	0							0
Bio-control of pests and diseases	0	0							0
Production of bio control agents and bio pesticides	0	0							0
Total									
VIII Fisheries									
Integrated fish farming	03	03							60
Total	03	03							60
IX Production of Inputs at site									
Vermi-compost production	0								
Organic manures production	0								
Total	0								
X Capacity Building and Group Dynamics									
Leadership development	0								
Group dynamics	0								
Formation and Management of SHGs	0								
Mobilization of social capital	01								
Entrepreneurial development of farmers/youths	02								
WTO and IPR issues									
Total	03								
XI Agro-forestry									
Total	0								
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production	01	07							
Bee-keeping	00								
Seed production									
Planting material production	02	08							
Vermi-culture									
Value addition	02	9							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total			
Sheep and goat rearing	0	0									
Para extension workers	0	0									
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	01	03									
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	02	02							50
Cropping Systems	01	01							25
Crop Diversification	01	01							25
Integrated Farming									
Water management									
Seed production	01	01							25
Nursery management									
Integrated Crop Management	04	04							100
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	02							50
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	02	02							50

b) Fruits									
Cultivation of Fruit	02	02							50
Management of young plants/orchards	01	01							25
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants	01	01							25
d) Plantation crops									
e) Tuber crops									
f) Spices	02	02							50
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation	01	01							25
Integrated Nutrient Management	01	01							25
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops	01	01							25
Nutrient Use Efficiency	02	02							25
Soil and Water Testing	01	01							25
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							25
Design and development of low/minimum cost diet	01	01							25
Designing and development for high nutrient efficiency diet	01	01							25
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques	01	01							25

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	F/FW	Integrated weed management in kharif crops	01							20
November	F/FW	Integrated weed management in Rabi crops	01							20
October	F/FW	Production technology of chickpea	01							20
November	F/FW	Production technology of Rabi crops	01							20
Horticulture										
August	F/FW	Rejuvenation of old and senile orchards for quality fruits	01							20
October	F/FW	Micro irrigation systems for orchards	01							20
	F/FW	Hi-tech Horticulture	01							20
Livestock production										
-										
Home Science										
-										
Plant Protection										
April	F/FW	Techniques of safe storage for food grains	01							20
June	F/FW	Method of seed treatment	01							20
December	F/FW	Integrated Pest Management in wheat	01							20
August	F/FW	Awareness and use of new molecules pesticides	01							20
Agriculture Extension (Capacity Building and Group Dynamics)										

March	F/FW	Role of ICT Tools like E-Marketing, mobile app in agriculture	01							20
April	F/FW	Agribusiness Skills among Farmers for maximising Farm Income	01							20
September	F/FW	Agribusiness & Marketing Information System	01							20
Soil Science										
June	F/FW	Role of secondary nutrient in soybean	01							20
July	F/FW	Integrated and balanced nutrition in kharif crops	01							20
October	F/FW	Role and importance of liquid fertilizers in crop production	01							20
January	F/FW	Vermi-composting for soil health management	01							20
Agril. Engineering										
September	F/FW	Installation and maintenance of Drip Irrigation system	01							20
November	F/FW	Importance and Scope of plastic mulching in Agriculture	01							20
Fisheries										
August	F/FW	Role of manure & fertilizer for natural fish food production	01							20
December	F/FW	Group dynamics through SHGs	01							20
March	F/FW	Women Empowerment Through SHGs	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										
May	F/FW	Crop production technology of soybean	01							20
June	F/FW	Agronomic practices for enhancing the productivity of kharif crops	01							20
August	F/FW	Seed production technology for soybean	01							20
October	F/FW	Production technology of rabi pulses	01							20
September	F/FW	Production technology of mustard	01							20
November	F/FW	Production technology of Wheat	01							20
October	F/FW	Scope and importance of natural farming	01							20
June	F/FW	Scientific cultivation of major millets	01							20
Horticulture										
June	F/FW	Production technology of important Kharif vegetables	01							20
October	F/FW	Production technology of potato	01							20
July	F/FW	Kharif onion for crop diversification	01							20
August	F/FW	Nursery Management of vegetables	01							20
March	F/FW	Production technology of summer vegetables	01							20
July	F/FW	Establishment of fruit orchards	01							20
September	F/FW	High density planting techniques for establishment of new orchards	01							20
October	F/FW	Role of plant growth regulators in horticultural crops	01							20
November	F/FW	Importance of Mulching in Fruit & Vegetable crops	01							20
November	F/FW	Production technology of Garlic	01							20
December	F/FW	Production technology of spices	01							20
Livestock production										
Home Science										
June	F/FW	Importance and score of kitchen gardening	01							20
July	F/FW	Balance diet for	01							20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		children and women to eradicate the malnutrition								
August	F/FW	Nutrition Gardens: A Sustainable Model for Food Security	01							20
September	F/FW	Safe storage of household grain	01							20
October	F/FW	Preparation of soybean based value added product	01							20
November	F/FW	Management of malnutrition in women & Child	01							20
December	F/FW	Health and hygiene for children and women	01							20
Plant Protection										
July	F/FW	Management of insect pests & Diseases in soybean	01							20
August	F/FW	Integrated pest management in millets	01							20
September	F/FW	Management of pod bores in Pigeon pea	01							20
October	F/FW	Integrated pest management in cole crops	01							20
December	F/FW	Integrated Pest Management in Chickpea	01							20
November	F/FW	Precaution during pre & post spraying of pesticides	01							20
October	F/FW	IPM in chilli	01							20
November	F/FW	IPM in Onion and Garlic	01							20
December	F/FW	Role of Eco-friendly pesticides & bio-agents and its conservation	01							20
Agriculture Extension (Capacity Building and Group Dynamics)										
April	F/FW	Role of SHGs for income enhancement through agriculture commodities	01							20
May	F/FW	ICT Application and Kisan Sarthi Portals In Agriculture & Allied Fields	01							20
June	F/FW	Role of ICT tools in dissemination of agriculture technology	01							20
July	F/FW	Role of extension literature in dissemination of agriculture technology	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	F/FW	Recent Extension Approaches for Effective Transfer of Technology	01							20
Sept	F/FW	Use of Mass Media for Transfer of Technology	01							20
October	F/FW	Importance of Organic farming in current scenario	01							20
November	F/FW	Promotion of Organic Farming for Sustainable Agriculture	01							20
December	F/FW	Role of FPO for income enhancement through agriculture commodities	01							20
March	F/FW	Climate Change & its Effect on Agriculture & Allied Fields	01							20
Soil Science										
March	F/FW	Preparation of natural farming components	01							20
October	F/FW	Integrated Nutrient Management in Rabi crops	01							20
June	F/FW	Role of liquid fertilizers in vegetables crops	01							20
April	F/FW	Method of soil samples collection for testing	01							20
June	F/FW	Balance use of fertilizers in millets	01							20
May	F/FW	Soil health card based fertilizer management in crops	01							20
Agricultural Engineering										
April	F/FW	Importance of Deep Tillage and Improved Implement for tillage	01							20
June	F/FW	Improved Sowing Method of soybean	01							20
July	F/FW	In-situ soil moisture conservation in Kharif Crop	01							20
May	F/FW	Low Cost Rain water Harvesting Technologies	01							20
October	F/FW	Installation and maintenance of Sprinkler Irrigation system	01							20
November	F/FW	Improved implements of sowing in garlic	01							20
September	F/FW	Design and	01							20

Month/ Tentativ e Date	Clie n tele	Title of the training programme	Duration in days	Number of participants						Gran d Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Tota l	
		Maintenance of Farm Pond								
March	F/FW	Wheat Crop Residue management	01							20
Fisheries										
April	F/FW	Preparation & Maintenance of pond for fish culture	01							20
July	F/FW	Production technology of fish farming	01							20
August	F/FW	Preparation of pond for fish seed stocking	01							20
Septem ber	F/FW	Fish Seed procurement and Stocking techniques for aquaculture	01							20
October	F/FW	Feeding Management for economic fish production.	01							20
Novemb er	F/FW	Fish diseases management for profitable aquaculture	01							20
Decemb er	F/FW	Integrated fish farming techniques for profitable agriculture	01							20

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
August		Nursery Management	03							20
June		Propagation techniques in fruit crops	05							20
Livestock production										
Home Science										
April		Income generation through	08							20

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
May	In- service personnel	Production technology of kharif crops	01							20
October	In- service personnel	Production technology of Rabi crops	01							20
Horticulture										
August	In- service personnel	New interventions in horticultural crops	01							20
Agricultural Engineering										
November	In-service personnel	Improved Agricultural Implements for Modern Agriculture	01							20
Home Science										
Plant Protection										
July	In-service personnel	Insect-pests & disease management in Kharif crops	01							20
December	In-service personnel	Insect-pests & disease management in Rabi crops	01							20
Agriculture Extension (Capacity Building and Group Dynamics)										
April	In-service personnel	ICT Application for dissemination of	01							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		agricultural technology								
November	In-service personnel	Capacity building Through Self Help Groups	01							20
May	In-service personnel	Why & how to doubling the farmers income	01							20
Soil Science										
September	In-service personnel	Importance of INM	01							20

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration <i>n</i>	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1													

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			100			10			110
Kisan Mela	01			200			10			201
Kisan Ghosthi	02			100						100
Exhibition	02			100			05			105
Film Show	02			100			05			105
Method Demonstrations	02			60						60
Farmers Seminar	-									--
Workshop	01			50						50
Group meetings	02			50						50
Lectures delivered as resource persons	20			400						400
Newspaper coverage	10			Mass						Mass
Radio talks	10									
TV talks	04			Mass						Mass
Popular articles	08			Mass						Mass
Extension Literature	05			Mass						Mass
Advisory Services	10			Mass						Mass
Scientific visit to farmers field	10									
Farmers visit to KVK	500									
Diagnostic visits	10			100						100
Exposure visits	02			20						20

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HI 8759	80
OILSEEDS	Soybean	JS 2098	200
PULSES	Chickpea	RVG-204	200
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya Saplings		500 Nos
SPICES			
VEGETABLES	Tomato seedlings		20000 Nos
	Chilli seedlings		15000 Nos
	Brinjal seedlings		15000 Nos
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS	Drumstick seedlings		2000 Nos
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			1000 qt.
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			500 lit
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 to March-23	Quarterly	Soft Copies
April to June-23	Quarterly	Soft Copies
July to September -23	Quarterly	Soft Copies
October to December-23	Quarterly	Soft Copies

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case: 02 .(no.)

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA/ diagnostic visits
2	Rural Youth	Need based
3	In-service personnel	Diagnostic visits
4	methodology for identifying OFTs/FLDs	Based on problem identification
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	Bhatkhedi	Dewas	30
2	Dharukhedi	Dewas	32
3	Napakhedi	Dewas	15
4	Badi Churlai	Dewas	40
5	Sadashivpura	Dewas	35
6	Moru Khedi	Dewas	30

1. No. of farm families selected per village : 50

2. No. of survey/PRA to be conducted: 06

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	pH meter	01	Working
2	EC meter	01	
3	Flame photometer	01	Working

4	Spectrophotometer	01	Working
5	Electronic balance	01	Working
6	Kjeldhal nitrogen estimation instrument	01	Working
7	Hot plate	01	Working
8	Rotary shaker	01	Working
9	Distillation unit	01	Working
10	Mrida parikshak	03	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	400	25	
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Farmers welfare and agricultural development	Training and extension activities
ATMA Dewas	Training and extension activities
Dept. of Horticulture	Training and extension activities
Dept. of Fisheries	Training and extension activities
Dept. of Veterinary	Training and extension activities
Dept. of Ag. engineering	Training and extension activities
Dept. of Child care and women development	Training and extension activities
Solidaridard NGO	Training and extension activities
VIPPI Foundation	Training and extension activities
Hand in Hand NGO	Training and extension activities
NABARD	Training and extension activities
NRLM	Training and extension activities
FPOs	Training and extension activities

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Interface	Technological awareness
Training	Technological awareness
Demonstration	Suggestions for technical inputs

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
Rabi 2023-24	Seed Production (B/S to F/S) at Farmers Field Var. RVG-204	50 ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1720 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	12	JS 20-34, JS 20-69, JS 20-98, JS 20-116, RVS 18, RVS 24, RVSM 11-35, NRC 127, NRC128, NRC 130, NRC138, NRC142,	240
Green gram	Kharif	06	Shikha (IPM 410-3),, MH 421, IPM 2-3, JM 4, PDM 139 (Smrat), Virat	120
Black gram	Kharif	06	Pratap Urid 1, PU 9, PU 10, PU 31, PU 7, IPU 94-1,	120
Sorghum	Kharif	07	CSV 27, CSV 29, CSV 31, CSV 36, CSV 39, 2357, Raj 1862,	160
Maize	Kharif	03	DKC 8209, DKC 7204, Maize Super 82	60
Kutki	Kharif	01	JK-4	40
Soybean	Kharif	12	JS 20-34, JS 20-69, JS 20-98, JS 20-116, RVS 18, RVS 24, RVSM 11-35, NRC 127, NRC128, NRC 130, NRC138, NRC142,	240
Green gram	Kharif	06	Shikha (IPM 410-3),, MH 421, IPM 2-3, JM 4, PDM 139 (Smrat), Virat	120
Black gram	Kharif	06	Pratap Urid 1, PU 9, PU 10, PU 31, PU 7, IPU 94-1,	120
Sorghum	Kharif	07	CSV 27, CSV 29, CSV 31, CSV 36, CSV 39, 2357, Raj 1862,	160
Maize	Kharif	03	DKC 8209, DKC 7204, Maize Super 82	60
Kutki	Kharif	01	JK-4	40
Wheat	Rabi	20	DDW 47, DDW 48, DBW 187, DBW 222, HI 1544, HD 2932, HI 1605, HI 1633, HI 1634, HI 1636, HI 1650, HI 1655, HI 8805, HI 8823, HI 8826, HI 8830, HD 4728, GW 513, HI 8737, HI 8759	400
Gram	Rabi	12	RVG 202, RVG 203, RVG 204, RVG 205, Phule Vikram, Phule Vikrant, Vishwaraj, BG 3062, MNK 1, JGK 5, Kripa, RVKG 151	240
Safflower	Rabi	07	RVSAF 18-1, RVSAF 18-3, RVSAF 14-1, JSF-1, JSI 7, JSI 73, JSI 97	140
Mustard	Rabi	04	Digvijay, RH 749, NRCDR 2, RVM 2	80
Lentil	Rabi	03	JL 3, DPL 62, RVL 11-6	60
Methi	Rabi	03	Ajmeri methi, RMT 305, Desi Methi	60

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy Unit	04 Gir Cow and 04 Heifer	200	7000 L
Vegetable Unit	Tomato, Chilli, Cucumber, bottle guard, ridge guard, Cowpea, Drumstick, Corriandar, Radish, Carrot, Potato, Onion, Garden pea, Cabbage	550	Rs. 50000.00
Azolla Unit	Used for dairy purpose	30	Milk increased
Tubewell Recharge Unit	04 Lakh litre water recharged	10	02 months availability of water increased
Micro Irrigation Unit	Used for irrigation in breeder seed production	2000	
Fish Hatchery	Fish Seed Production	150	01 Lakh seed produced
Orchard/Progeny Unit	Guava, Aonla, Apple ber, Pomegranate,	8000	Rs. 50000.00

	Mango, Lemon		
Water Harvesting Unit	1875 Cubic Meter	625	1875 cubic meter water
Vermicompost unit	04 compartment of 03 pit	100	1000 qt.
Crop Cafeteria	Soybean, Maize, Sorghum, Pigeon pea, Black gram, Green gram, Groundnut, Finger millets, Chickpea, Wheat, Mustard, Safflower, Lentil, Fenugreek,	4000	3000 farmers visited

KVK :- Dhar-I

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 32.439

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2	Under Demonstration Units	1.8
3	Under Crops	24.0
4	Orchard/Agro-forestry	3.0
5	Others (specify)	1.639
Total		32.439

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	424.08		-	-	-
2	Farmers Hostel	ICAR	2007	338.24		-	-	-
3	Staff Quarters (6)	ICAR	2007	252.49		-	-	-
4	Demonstration Units (2)	ICAR	2019-20			-	-	-
5	Fencing	-	-	-		-	-	-
6	Rain Water harvesting system	-	-	-		-	-	-
7	Threshing floor	-	-	-		-	-	-
8	Farm godown	RKVY	2018-19			-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (John Deer)	2004	277730/-	208942	Not Servicable
Motor Cycle 2	2005	37696/-	134132	Not Servicable
Bolero (Jeep)	2012	524304/-		Not Servicable
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	June-2023
2	Oct-2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/ enterprise	Description
1	AES – 1 (Malwa Plateau)	Soybean-Chickpea/Wheat/Vegetables
2	AES – 2 (Nimar Valley)	Cotton- Chickpea/Wheat/Vegetables Maize- Chickpea/Wheat/Vegetables
3	AES – 3 (Jhabua Hills)	Maize- Chickpea/Wheat/Vegetables Green Gram/Black Gram - Chickpea/Wheat/Vegetables

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 (Malwa Plateau)	The northern half of the district lies on the Malwa plateau. It covers the northern part of Dhar, Sardarpur and Badnawar tahsils. The average elevation of the plateau is 500 metres above the mean sea level. The land is undulating with a few scattered flat-topped hills roughly aligned between the valleys from south to north. The general slope is towards the north. The valleys are covered with black cotton soil of varying thickness, mostly adapted for cultivation. The mounds may bear gravels or the underlying sandstone rocks may have been exposed. The plateau covers an area of about 466,196 hectares in this district. Below the Vindhya scarp lies the narrow valley of the Narmada. It occupies the southern part of the district in Manawar tahsil and southern eastern part of Kukshi tahsil. The width of the valley is 15 to 30 kilometres. The elevation varies from 275 metres in the northern part of Manawar tahsil to 150 metres in the low plain of Nisarpur in the southwest. To the east between Khalghat and Bakaner the valley is wider, more open and fertile with alluvial cover proceeding westwards. The valley is studded with hills alternatively cut up by numerous streams which join the Narmada along the southern boundary of the district. The result is that there are few stretches and pockets of alluvium along the streams. The regional economy is mostly agricultural; cereal grains, pulses (legumes), oilseeds, and cotton are the main crops. Industries produce cotton textiles, ginned cotton, sugar, vegetable oil, lumber, and paper.
2	AES – 2 (Nimar Valley)	In the Nimar valley the main crops are cotton and groundnut, but maize, wheat is also grown extensively.
3	AES – 3 (Jhabua Hills)	RainFall Range mm. - 800 To 1000, Soil Type- Medium gravelley black, light medium, Recommended Crops- Lime, Mosambi, Ber, Guava, Aonla, Custard apple, Pomegranate, seasonal vegetables, Garlic, Methi.

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Malwa Plateau)

Strength	Weakness	Opportunities	Threats
- Limited/ Assured irrigation - Black cotton soil - Medium & Large Farmers - Production of cash crops	- Monocropping - Low water table - Imbalance use of fertilizers - Indiscriminate use of pesticides - Lack of quality seeds	- Increase in production of crops - Organic & Natural Farming - Increasing in cropping intensity - Introduction of New varieties and habits	- Climate change due to uncertain & heavy rains - Mono Cropping - Soil Fertility challenges - Marketing problem

AES-2 (Nimar Valley)

Strength	Weakness	Opportunities	Threats
- Assured irrigation facilities - High farm power availability, cropping intensity and productivity - Limited/ Assured irrigation - Black cotton soil - Medium & Large Farmers - Production of cash crops	- Low water table - Imbalance use of fertilizers - Indiscriminate use of pesticides - Lack of quality seeds - Monocropping	- Introduction of New varieties and habits - Increase in production of crops - Organic & Natural Farming - Increasing in cropping intensity	- Climate change due to uncertain & heavy rains - Mono Cropping - Soil Fertility challenges - Marketing problem

AES-2 (Jhabua Hills)

Strength	Weakness	Opportunities	Threats
- Limited/ Assured irrigation - Light soil Production of cash crops - Good liaison with farm machinery manufacturers - Eagerness of farmers to adopt new technologies	- Monocropping - Low water table - Imbalance use of fertilizers - Indiscriminate use of pesticides - Lack of quality seeds - Small & Marginal Farmers - Poor Soil fertility status	- Increase in production of crops - Organic & Natural Farming - Increasing in cropping intensity - Introduction of New varieties and habits	- Climate change due to uncertain & heavy rains - Mono Cropping - Soil Fertility challenges - Marketing problem

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	819.541
Forest	130.243
Waste Land	39.071
Other than cultivated area	52.0
Cultivable waste and alkaline land	15.0
Pastures	47.0
Bushes	1.2
Current Fallow	2.0
Other Fallow	3.0
Agricultural Land	545.200
Area Sown	530.2
Kharif	514.200
Rabi	355.175
Zaid	9.118
Cropping Intensity	170.80%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	32569
2	Well	135322
3	Tube well	67043
4	Ponds	54875
5	Others	28485
	Total	318294

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"	Percent (%) of total
1	Deep soil		352.20	43.29
2	Medium deep soil		173.60	21.38
3	Shallow soil		287.80	35.33

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

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

S.No.	Crops	Area (ha)	Productivity (Kg/ha)
Field crops			
Kharif			
1	Soybean	285000	1650
2	Cotton	102000	2080
3	Sorghum	5500	1460
4	Maize	72360	3450

5	Bajra	3820	781
6	Black gram	5197	894
7	Green gram	6543	806
8	Pigeon pea	4527	1479
9	Groundnut	3.042	1468
10	Sesame	0.345	670
11	Kulthi	2123	710
12	Other	30.25	-
Rabi			
1	Wheat	228766	3348
2	Chick pea	80300	1150
3	Winter Maize	22700	4550
4	Pea	4700	530
5	Lentil	858	890
6	Mustard	250	1010
7	Sugarcane	5121	49000
8	Potato	12478	

Area, Productivity of major Horticultural crops in the district

S. No.	Crops	Area (ha)	Productivity (Tonnes/ha)
Spices			
1	Chili	14497.5	3.80
2	Ginger	799.5	28.0
3	Garlic	2097.5	23.0
4	Turmeric	231.0	35.0
5	Coriander	459.0	1.30
6	Onion	417.0	28.20
7	Fennel Seed	574.0	0.70
8	Others	668.0	0.50
	Total	19743.5	
Fruits			
1	Mango	211.50	5.5
2	Orange	126.0	9.75
3	Banana	2490.0	50.0
4	Guava	310.75	11.0
5	Papaya	605.5	23.0
6	Aonla	143.75	5.5
7	Others	1097.5	5.2
	Total	4985	
Vegetables			
1	Tomato	2378.0	30.50
2	Okra	360.0	10.0
3	Brinjal	193.0	18.1
4	Green pea	644.0	14.30
5	Cauliflower	435.0	20.0
6	Cabbage	460.5	21.90
7	Potato	724.5	50.090
8	Others	2984.5	6.5
	Total	8179.5	

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

Month /Year	Rainfall (m.m.)	Temperature (°C)	
		Maximum	Minimum

Jan, 22	-	-	-
Feb, 22	-	-	-
Mar, 22	-	-	-
Apr, 22	-	-	-
May, 22	-	-	-
Jun, 22	-	-	-
July, 2022	-	-	-
Aug., 2022	-	-	-
Sept., 2022	-	-	-
Oct. 2022	-	-	-
Nov. 2022	-	-	-
Dec. 2022	-	-	-

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	663537	84771353.765 MT.	 kg
Buffalo	279509	75518449.670 MT.	 kg
Sheep			
Crossbred/ Indigenous	5353	 MT wool	 kg
Goats	687834	18605916.773 MT	 kg
Pigs Crossbred/ Indigenous	355	---	---
Rabbits			
Poultry			
Hens	678886	 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.	Nalcha	Nalcha	Sodpur	Soybean, Wheat, Gram, Tomato, Chili, Cucurbites	1. Low productivity of major crops. 2. Indiscriminate use of pesticides. 3. Improve varieties. 4. Imbalance use of fertilizer. 5. High mortality due to damping off.	1. ICM 2. VE 3. INM 4. IWM 5. IPM 6. HOS 7. Nursery Management
2.	Nalcha	Nalcha	Kothi Sodpur			
3.	Tirla	Tirla	Moregaon			
4.	Tirla	Tirla	Mohanpura			
5.	Nalcha	Nalcha	Menhdikhedi			
6.	Sardarpur	Sardarpur	Khedi			
7.	Umarvan	Umarvan	Sanwlakhedi			
8.	Dhar	Dhar	Sultanpur			
9.	Dhar	Dhar	Talwada			
10.	Dhar	Dhar	Uttarsi			
11.	Dhar	Dhar	Rajod			
12.	Tirla	Tirla	Chelai			
13.	Nalcha	Nalcha	Bakhankheda			
14.	Sardarpur	Sardarpur	Mahanpura			
15.	Tirla	Tirla	Ambapura			
16.	Tirla	Tirla	Bhutibavdi			
17.	Tirla	Tirla	Dholahanuman			
18.	Nalcha	Nalcha	Lobhanpura			
19.	Nalcha	Nalcha	Digthan			
20.	Nalcha	Nalcha	Bhilbarkheda			
21.	Nalcha	Nalcha	Awalia			
22.	Sardarpur	Sardarpur	Piparni			
23.	Sardarpur	Sardarpur	Chalni			
24.	Sardarpur	Sardarpur	Hanumantia Kag			
25.	Dhar	Dhar	Billoda			
26.	Dhar	Dhar	Labravda			
27.	Dhar	Dhar	Dilawra			

28.	Tirla	Tirla	Advi			
29.	Tirla	Tirla	Badpipli			
30.	Sardarpur	Sardarpur	Sajod			
31.	Dhar	Dhar	Pipliya			
32.	Nalcha	Nalcha	Shikarpur			
33.	Nalcha	Nalcha	Bachrawda			

Priority / Thrust areas

S. No.	Particulars
1.	To improve the productivity of oilseed soybean by demonstration of HYVs, INM, IPM, IWM
2.	To improve the productivity of Bt cotton by demonstration of INM, IPM, Intercropping, water management
3.	To improve the productivity of pulses (chickpea, black gram and pigeon pea) by introducing disease resistant varieties, promoting INM and IPM
4.	To improve the productivity of cereals by demonstrating HYVs, INM , IPM, IWM
5.	To promote horticultural crops along with post-harvest management technology in chilli, tomato, turmeric, mahua etc. in the district.
6.	To promote of agri-enterprises viz., vegetable cultivation, dairy, goatery, fisheries and value addition of agricultural produce to enhance farm family income.
7.	To Develop profitable farming system models based on the resources available with farm families.
8.	To improve the skill & entrepreneurship of rural youth
9.	To upgrade the knowledge of district level extension functionaries.
10.	To generate employment for rural youth and empowerment of farm women through drudgery reduction.
11.	To promote diversified of farming system through flower, medicinal, vegetable and spice cultivation.

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KV K**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
16	160	13	130

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2000	401	15645

Seed Production (Qtl.)	Planting material (Nos.)
500	50000

B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Evaluation	Soybean	Low yield due to old variety (JS 93-05), moisture stress condition & infestation of diseases	Assessment of newly released varieties for higher production & moisture stress management in Soybean	-	Packaging and practices in soybean for higher and sustainable production	-	-	HYV 1. Raj Soya-24 with FIRBS 2. RVS 2011-35 with FIRBS
2	Inter cropping	Cotton	Low yield due to adverse climatic factors & infestation of diseases	Assessment of intercropping of high value vegetables in Cotton for additional production and income generation	-	Effect of adverse climate & infestation of disease in cotton	-	-	T1- Cotton + Cucumber (intra row spacing) T2- Cotton + Round gourd (intra row spacing)
3	IPM	Soybean	Low yield due to heavy infestation of stem fly affected area 150000 ha	Assessment of Lambda cyhalothrin for the management of stem fly in Soybean	-	IPM practices in Soybean	-	-	T1- Foliar spray of Lambda cyhalothrin 4.9 SC @ 300 g/ha at 25 DAS T2 - Foliar spray of LC 9.6 + Thiomethoxam 12.6 @ 125 ml/ha at 25 DAS

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation (VE)	Wheat	Soybean	Chick Pea	-	Onion	-	-	-	-	05
INM	Maize	Soybean	Pea	Potato	Onion, Garlic	-	-	-	-	06
IPM	-	Soybean	-	-	-	-	-	-	-	01
Vegetable production	-	-	-	Chilli, Tomato	-	-	-	-	-	02
Crop Management	-	-	-	Cotton	-	-	-	-	-	01
TOTAL	02	03	03	04	03	0	0	0	0	15

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL	0	0	0	0	0	0	0	0

Details of On Farm Trial (OFT)

OFT-1 (Kharif) Agronomy (2nd Year)

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of newly released varieties for higher production & moisture stress management in Soybean
Problem diagnosed	Low yield due to old variety (JS 93-05), moisture stress condition & infestation of diseases
Farmers' Practices	Old variety -JS 93-05
	T1 Raj Soya-24 with FIRBS
	T2 RVS 2011-35 with FIRBS
Source of technology	RVSKVV, 2021
Plot size	0.2 ha
No. of farmers	10
Total cost	21000/-
Critical input	15 kg of seed of RVS-24 & RVS 2011-35 to each farmers
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pods, branches/plant, yield (kg/ha), economics (net return and B:C ratio)

OFT-2 (Kharif) Agronomy (3rd Year)

Crop / Enterprise	Cotton
Title of on farm trial	Assessment of intercropping of high value vegetables in Cotton for additional production and income generation
Problem diagnosed	Low yield due to adverse climatic factors & infestation of diseases
Farmers' Practices	Cotton mono-cropping
Details of technologies selected for assessment	T1 Cotton + Cucumber (intra row spacing)
	T2 Cotton + Round gourd (intra row spacing)
Source of technology	CICR, 2018
Plot size	0.2 ha
No. of farmers	10
Total cost	15000/-
Critical input	Seed of Cucumber and Round gourd
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	LER, Yield (q/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back

OFT-3 (Kharif) Agronomy (2nd Year)

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Lambda cyhalothrin for the management of stem fly in Soybean
Problem diagnosed	Low yield due to heavy infestation of stem fly affected area 150000 ha
Farmers' Practices	Foliar spray of Profenophos + Cypermethrin 44 %
Details of technologies selected for assessment	T1 Foliar spray of Lambda cyhalothrin 4.9 SC @ 300 g/ha at 25 DAS
	T2 Foliar spray of LC 9.6 + Thiomethoxam 12.6 @ 125 ml/ha at 25 DAS
Source of technology	IISR, 2018
Plot size	0.2 ha
No. of farmers	10
Total cost	10000/-
Critical input	Lambda cyhalothrin 4.9 SC, LC 9.6 + Thiomethoxam 12.6
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Affected plants/sqm, Pods/Plant, Yield (kg/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back

OFT-4 (Kharif) Soil Science (3rd Year)

Crop / Enterprise	Onion
Title of on farm trial	Assessment of Integrated Nutrient Management in Kharif Onion with Raised bed
Problem diagnosed	Low yield of Onion due to erratic rainfall & imbalance use of fertilizer
Farmers' Practices	125 kg Urea + 200SSP/ha (57:32:0 kg/ha NPK) + Flat Bed
Details of technologies selectedfor assessment	T1 RDF 100:60:100 NPK + BBF
	T2 2Tons /ha FYM + RDF 100:60:100 NPK + BBF
Source of technology	JNKVV 2014
Plot size	0.2 ha
No. of farmers	10
Total cost	15000/-
Critical input	MOP
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pods, branches/plant, yield (kg/ha), economics (net return and B:C ratio)

OFT-5 (Kharif) Soil Science (3rd Year)

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Nutrient management in Soybean on STCR basis
Problem diagnosed	Low Yield of soybean due to imbalance use of fertilizer.
Farmers' Practices	Imbalance use of fertilizer 75 Kg DAP
Details of technologies selectedfor assessment	T1 RDF 20:80:40:20 NPKS
	T2 Target Yield- 20 q/ha, FN- 5.19T – 0.48 SN, FP2O5- 5.2 T – 4.1 SP FK2O- 3.9 T – 0.22 SK+ 20 kg S
Source of technology	IISR Indore 2016
Plot size	0.2 ha
No. of farmers	10
Total cost	15000/-
Critical input	MOP and bentonite sulphur
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pods, branches/plant, yield (kg/ha), economics (net return and B:C ratio)

OFT-6 (Kharif) Soil Science (2nd Year)

Crop / Enterprise	Maize
Title of on farm trial	Assessment of Nano urea in Maize
Problem diagnosed	Low yield of maize due nitrogen deficiency in maize
Farmers' Practices	100 kg/ha DAP+ 100kg/ha Urea (64:46:0)
Details of technologies selectedfor assessment	T1 RDF 120:60:40 NPK
	T2 RDF 50% (60 N) and 100% 60:40 PK + 50% Nano urea at 30 and 50 DAS through foliar application
Source of technology	IFFCO, 2019
Plot size	0.2 ha
No. of farmers	10
Total cost	2400/-
Critical input	Nano Urea
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pods, branches/plant, yield (kg/ha), economics (net return and B:C ratio)

OFT-7 (Kharif) Horticulture (1st Year)

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of plastic mulch with water and nutrient management in tomato crop
Problem diagnosed	Heavy weed infestation and more water consumption due to flood irrigation and low productivity
Farmers' Practices	Planting on raised bed only
Details of technologies selected for assessment	T1 Planting on raised bed with drip irrigation T2 Planting on raised bed with mulching (25 micron, silver-black plastic sheet) & fertigation
Source of technology	IIHR, 2014
Plot size	0.2 ha
No. of farmers	10
Total cost	20000/-
Critical input	Plastic mulch
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Moisture (%), weed count/m ² , No. of Fruits / Plant, Yield (kg/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back

OFT-8 (Kharif) Horticulture-Natural Farming (2nd Year)

Crop / Enterprise	Chilli
Title of on farm trial	Assessment of Natural Farming in chilli
Problem diagnosed	High cost of production due to chemical spray against sucking pest
Farmers' Practices	Chemical Farming
Details of technologies selected for assessment	T1 Bijamrita: water (20 litre), cow dung (5 kg), urine (5 litre), lime (50 gm) and just a handful of soil, Ghanjivamrita: cow-dung (20 kg), urine (5-10 litre), jaggery (2 kg) and dicot flour (2 kg) and applied to the crops with each Irrigation cycle or directly to the crops. Mulching (Acchadana): soil mulch, straw mulch, Moisture (Whapasa): irrigation in alternate furrows. T2 -
Source of technology	-
Plot size	0.2 ha
No. of farmers	10
Total cost	10000/-
Critical input	Plastic Drum
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Fruit yield (kg/ha), economics (net return and B:C ratio)

OFT-9 (Rabi) Agronomy (1st Year)

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of wheat varieties in soybean-wheat cropping system for terminal heat tolerance through temporal adjustments
Problem diagnosed	Low income due to biotic/abiotic factor & high cost of cultivation
Farmers' Practices	Lok-1
Details of technologies selected for assessment	T1 HI 1636 (Pusa Vakula) T2 HI-1650 (Pusa Ojaswi)
Source of technology	IARI, 2022
Plot size	0.2 ha
No. of farmers	10
Total cost	10000/-
Critical input	Seed of HI 1636 (Pusa Vakula) and HI-1650 (Pusa Ojaswi)
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of tillers/hill, Yield (kg/ha), Economics (net return and B:C ratio), Farmers reaction & feed back

OFT-10 (Rabi) Agronomy (2nd Year)

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of improved varieties of chickpea under Malwa plateau conditions
Problem diagnosed	Low income due to old varieties
Farmers' Practices	Use of local variety (Vishal)
Details of technologies selected for assessment	T1 RVG-202
	T2 RVG-204
Source of technology	RVSKVV 2021
Plot size	0.2 ha
No. of farmers	10
Total cost	28000/-
Critical input	Seed of RVG-202 and RVG-204
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of branches, no. of pods/plant, Yield (kg/ha), Economics (net return and B:C ratio), Farmers reaction & feed back

OFT-11 (Rabi) Soil Science (2nd Year)

Crop / Enterprise	Garlic
Title of on farm trial	Assessment of Integrated Nutrient Management in Garlic
Problem diagnosed	Low yield of garlic due to lack of nutrients
Farmers' Practices	1 bag DAP + 2 bag Urea (55:23)
Details of technologies selected for assessment	T1 100:60:50 NPK
	T2 2.5 t/ha vermicompost + STV value
Source of technology	IISS, 2018
Plot size	0.2 ha
No. of farmers	10
Total cost	17500/-
Critical input	Vermicompost
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield (kg/ha), economics (net return and B:C ratio)

OFT-12 (Rabi) Soil Science (2nd Year)

Crop / Enterprise	Potato
Title of on farm trial	Assessment of Integrated nutrient management in Potato
Problem diagnosed	Low Yield of Potato due to imbalance use of fertilizer.
Farmers' Practices	1 bag DAP + 2 bag Urea (55:23)
Details of technologies selected for assessment	T1 RDF (120N+100P2O5+75K2O kg/ha)
	T2 2.5 t/ha Vermi compost +120:100:75 NPK+ 500g Azotobacter
Source of technology	JNKVV 2012
Plot size	0.2 ha
No. of farmers	10
Total cost	25500/-
Critical input	Vermi compost & Azotobacter
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tuber Yield (q/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back

OFT-13 (Rabi) Soil Science (3rd Year)

Crop / Enterprise	Pea
Title of on farm trial	Assessment of Integrated Nutrient management in Pea
Problem diagnosed	Low Yield of Pea due to imbalance use of fertilizer.
Farmers' Practices	250 Kg SSP
Details of technologies selected for assessment	T1 RDF (20:60:20 NPK kg/ha)
	T2 2 tons/ha FYM+ STV Value + Biofertilizer
Source of technology	JNKVV 2011
Plot size	0.2 ha
No. of farmers	10
Total cost	12000/-
Critical input	MOP & Biofertilizers
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Pod Yield (q/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back

OFT-14 (Rabi) Horticulture (3rd Year)

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of feasibility of cucurbits cultivation on existing tomato bed structure for reducing the cost of cultivation
Problem diagnosed	Low income due to biotic/abiotic factor & high cost of cultivation
Farmers' Practices	Cultivation of tomato on bed only
Details of technologies selected for assessment	T1 Cultivation of bottle gourd on existing tomato bed
	T2 Cultivation of sponge gourd on existing tomato bed
Source of technology	RVSKVV, 2016
Plot size	0.2 ha
No. of farmers	10
Total cost	20000/-
Critical input	Seed of cucurbits
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Yield (kg/ha), Economics (net return and B:C ratio), Farmers reaction & feed back

OFT-15 (Rabi) Horticulture (1st Year)

Crop / Enterprise	Chilli
Title of on farm trial	Assessment of inter cropping of maize on existing chilli beds for additional production, income and protection against LCV
Problem diagnosed	Failure of chilli crop due to leaf curl virus resulting heavy losses to growers, Under utilization of the chilli fields resulting low income
Farmers' Practices	Sole planting of chilli on bed
Details of technologies selected for assessment	T1 Intra row planting of maize with chilli
	T2 Inter row planting of maize with chilli crop (Furrow)
Source of technology	IARI, 2015
Plot size	0.2 ha
No. of farmers	10
Total cost	10000/-
Critical input	Seed of Maize and chilli
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Yield (kg/ha), Economics (net return and B:C ratio), Farmers reaction & feed back

OFT-16 (Rabi) Horticulture (1st Year)

Crop / Enterprise	Onion
Title of on farm trial	Assessment of onion varieties for higher productivity & better storage
Problem diagnosed	Low productivity due to adoption of old varieties
Farmers' Practices	Agrifound Light Red
Details of technologies selected for assessment	T1 NHRDF Red-2
	T2 NHRDF Red-4
Source of technology	NHRDF Red-4
Plot size	0.2 ha
No. of farmers	10
Total cost	40000/-
Critical input	Seed of Onion NHRDF Red-2, NHRDF Red-4
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Bulb diameter (cm), weight of bulb (g) Yield (q/ha), B:C ratio Farmers reaction & feed back

OFT -2

1	Enterprise	Nil
2	Title of on-farm trial	Nil
3	Problem diagnosed	Nil
4	Farming situation	Nil
5	Production system and thematic area	Nil
6	Farmers' practices	Nil
7	Details of technologies selected for assessment/refinement Treatments	Nil
8	Source of technology	Nil
9	No. of animals	Nil
10	No. of farmers	Nil
11	Critical input	Nil
12	Cost of input	Nil
13	Total cost	Nil
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Nil

Detailed Information about OFT:

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

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

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details
Nil	Nil

Information about Home Science OFT:

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

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
Kharif 2023								
1.	Soybean	Natural Farming	Demonstration on Natural Farming in Soybean	Establishment of unit (plastic drum)	Kharif, 2023	4.0	10	No. of pods, branches/plant, yield (kg/ha), economics (net return and B:C ratio)
2.	Maize	IWM	Demonstration on weed management (Atrazine 1000 g a.i./ha (PE) followed by 2,4-D 500 g a.i./ha at 20-25 DAS) in maize crop	Atrazine and 2,4-D	Kharif, 2023	4.0	10	Weed population, WCE %, Yield, Net return, B:C ratio, Farmers reaction, feedback
3.	Soybean	IWM	Imazethapyr 35 g/ha + Imazamox 35 g/ha at 25 DAS	Imazamox	Kharif, 2023	4.0	10	Weed population/m ² , Yield, Net return, B:C ratio, Farmers reaction
4.	Maize	Nutrient Management	Management of Zinc through Zinc Sulphate in Maize (RDF120:60:40 NPK + 5kg/ha Zn)	Zn & MOP	Kharif, 2023	4.0	10	Yield, Net return, B:C ratio, Farmers reaction, feedback
5.	Chilli	Nutrient Management	Integrated Nutrient Management in Chilli (2 tons FYM + RDF 150:80:80 NPK)	MOP	Kharif, 2023	4.0	10	Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
6.	Chilli	HOS	Demonstration of plastic mulch with water and nutrient management in chilli crop	Plastic mulch	Kharif, 2023	4.0	10	Moisture (%), No. of Fruits / Plant, Yield (kg/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back
7.	Mahua	RCT	Demonstration on mahua seed decorticator	Mahua seed decorticator	Kharif, 2023	4.0	10	Net income (Rs./ha), Farmer Reaction & Farmer feed back
Rabi 2023-24								
8.	Kabuli chick pea	Varietal Evaluation	Demonstration of improved varieties of Kabuli chick pea under Malwa plateau condition	Improved variety JGK-5	Rabi 2023-24	4.0	10	No. of pods, Yield, Net return, B:C ratio, Farmers reaction & feed back
9.	Wheat	Varietal Evaluation	Demonstration of improved varieties of durum wheat under Malwa plateau condition	Improved Variety- Pusa Tejas (HI 8759)	Rabi 2023-24	4.0	10	No. of tillers/hill, Yield (kg/ha), Economics (net return and B:C ratio), Farmers reaction & feed back

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
10.	Tomato	Nutrient Management	Demonstration of Boron application in Tomato as per STV basis in late Rabi season	Boron & MOP	Rabi 2023-24	4.0	10	No. of fruit damage, fruit Yield (q/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back
11.	Cabbage	Integrated Nutrient Management	Demonstration of Integrated Nutrient Management in Cabbage on STV basis	MOP	Rabi 2023-24	4.0	10	Yield (kg/ha), Economics (net return and B:C ratio)
12.	Guava	HOS	Demonstration of fungicides for management of stylar end rot in guava	Fluopyram + Tebuconozol	Rabi 2023-24	4.0	10	No. of fruit damage, fruit Yield (q/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back
13.	Mahua	HOS	Demonstration of post harvest management practices in Mahua flower for fetching good market price (Collection of mahua flower on green net, shed drying & value addition by Kishmish making & marketing)	Green net	Rabi 2023-24	4.0	10	% loss of flower, Flower yield/plant, Economics (net return and B:C ratio), Farmers reaction & feed back

Proposed FLDs for 2023-24 under TSP (Pulse)

1.	Black gram (Kharif 2023)	Pratap Urd-1	20	50
2.	Chickpea (Rabi 2023)	RVG-204	20	50

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	13	September, March	390
2	Farmers Training	26	June, July, August, September, October, December, January	675
3	Media coverage	06	June, July, August, September, October, December,	Mass
4	Training for extension functionaries	06	June, July, August, September, October, December,	150

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1.	Soybean	ICM	Package demonstration of Soybean	Seed, Seed inoculation, Weedicide, Insecticide	Kharif 2023	20	50	Yield & Yield attributes
2.	Black Gram	ICM	Package demonstration of Soybean	Seed, Seed inoculation, Weedicide, Insecticide	Kharif 2023	20	50	Yield & Yield attributes
3.	Chick Pea	ICM	Package demonstration of Soybean	Seed, Seed inoculation, Weedicide, Insecticide	Rabi 2023-24	20	50	Yield & Yield attributes

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	3	September, March	90
2	Farmers Training	9	June, July, August, September, October, December, January	225
3	Media coverage	06	June, July, August, September, October, December,	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	04	01	-	-	-	-	-	-	100
Resource Conservation Technologies	04	01	-	-	-	-	-	-	100
Integrated	03	01	-	-	-	-	-	-	75

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Farming									
Water management	03	01	-	-	-	-	-	-	75
Seed production	04	01	-	-	-	-	-	-	100
Integrated Crop Management	04	01	-	-	-	-	-	-	100
Total	22	01	-	-	-	-	-	-	550
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	01	-	-	-	-	-	-	25
Protective cultivation (Green Houses, Shade Net etc.)	02	01	-	-	-	-	-	-	50
Total	03	03	-	-	-	-	-	-	75
b) Fruits									
Management of young plants/orchards	01	01	-	-	-	-	-	-	25
Total	01	01	-	-	-	-	-	-	25
c) Ornamental Plants	01	01	-	-	-	-	-	-	25
Total	01	01	-	-	-	-	-	-	25
d) Plantation crops	01	01	-	-	-	-	-	-	25
Total	01	01	-	-	-	-	-	-	25
e) Tuber crops	01	01	-	-	-	-	-	-	25
Total	01	01	-	-	-	-	-	-	25
f) Spices									
Production and Management technology	01	01	-	-	-	-	-	-	25
Total	01	01	-	-	-	-	-	-	25
g) Medicinal and Aromatic Plants			-	-	-	-	-	-	
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	08	08	-	-	-	-	-	-	200
III Soil Health and Fertility Management									
Soil fertility management	01	01	-	-	-	-	-	-	25
Soil and Water Conservation	01	01	-	-	-	-	-	-	25
Integrated Nutrient Management	01	01	-	-	-	-	-	-	50
Production and use of organic inputs	01	01	-	-	-	-	-	-	25
Management of Problematic soils	01	01	-	-	-	-	-	-	25
Micro nutrient deficiency in	01	01	-	-	-	-	-	-	25

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Productivity enhancement in field crops	01	01	-	-	-	-	-	-	-	-	25
Integrated Pest Management	02	01	-	-	-	-	-	-	-	-	50
Integrated Nutrient management	02	01	-	-	-	-	-	-	-	-	50
Protected cultivation technology	02	01	-	-	-	-	-	-	-	-	50
Group Dynamics and farmers organization	01	01	-	-	-	-	-	-	-	-	25
Capacity building for ICT application	01	01	-	-	-	-	-	-	-	-	25
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	02	01	-	-	-	-	-	-	-	-	50
Gender mainstreaming through SHGs	01	01	-	-	-	-	-	-	-	-	25
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
TOTAL	12	0	-	-	-	-	-	-	-	-	300

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	04	01	-	-	-	-	-	-	100
Resource Conservation Technologies	04	01	-	-	-	-	-	-	100
Cropping Systems	03	01	-	-	-	-	-	-	75
Crop Diversification	03	01	-	-	-	-	-	-	75
Integrated Farming	04	01	-	-	-	-	-	-	100
Water management	03	01	-	-	-	-	-	-	100
Seed production	03	01	-	-	-	-	-	-	75
Nursery management	03	01	-	-	-	-	-	-	75
Integrated Crop Management	04	01	-	-	-	-	-	-	100
Fodder production	02	01	-	-	-	-	-	-	50
Production of organic inputs	03	01	-	-	-	-	-	-	75
Total	36	01	-	-	-	-	-	-	925
II Horticulture									
a) Vegetable Crops									
Nursery raising	01	01	-	-	-	-	-	-	25
Export potential vegetables	01	01	-	-	-	-	-	-	25
Protective	01	01	-	-	-	-	-	-	25

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientel e	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, August	F & FW	Weed Management in Kharif Crop	01	-	-	-	-	-	-	25
July	F & FW	Resource conservation methods for moisture conservation in Kharif crops	01	-	-	-	-	-	-	25
June	F & FW	Production technology of soybean based cropping system with raised bed	01							25
June	F & FW	Crop diversification in kharif crops	01	-	-	-	-	-	-	25
June	F & FW	Integrated Farming system modules suitable for the district	01							25
June, July	F & FW	Quality Seed production technology in Kharif crops	01	-	-	-	-	-	-	25
June, July	F & FW	Climate resilient production technologies	01							25
May, June	F & FW	Integrated nutrient Management in Kharif crops	01	-	-	-	-	-	-	25
October	F & FW	Post Harvest Management in kharif crops	01							25
October, November	F & FW	Weed Management in Major Rabi Crop	01	-	-	-	-	-	-	25
October	F & FW	Resource conservation methods for moisture conservation in Rabi crops	01							25
October, November	F & FW	Production technology of Chick pea based cropping system with raised bed	01	-	-	-	-	-	-	25
November	F & FW	Crop Diversification in Rabi crops	01							25
October	F & FW	Integrated Farming system modules suitable for the district	01	-	-	-	-	-	-	25
October	F & FW	Quality Seed production technology in Rabi crops	01							25
November, December	F & FW	Integrated Crop Management in Rabi crops	01	-	-	-	-	-	-	25
March, April	F & FW	Quality seed production technology of major summer crops	01							25
March, May	F & FW	Residue management and summer deep ploughing	01	-	-	-	-	-	-	25
March, May	F & FW	Storage grain pests & their control	01							25
April, May	F & FW	Post Harvest Management in Rabi crops	01	-	-	-	-	-	-	25
Horticulture										
May, June	F & FW	Production of low volume and high value crops	01	-	-	-	-	-	-	25
May, July	F & FW	Production technology of off season vegetables	01	-	-	-	-	-	-	25
May, June	F & FW	Nursery raising in vegetable crops	01	-	-	-	-	-	-	25
Aug. , Sept.	F & FW	Protective cultivation of vegetable crops	01	-	-	-	-	-	-	25
April, March	F & FW	Training and Pruning in fruits crop	01	-	-	-	-	-	-	25
June, July	F & FW	Layout and Management of Orchards	01	-	-	-	-	-	-	25
July, Aug	F & FW	Cultivation of Fruit crops	01	-	-	-	-	-	-	25
June	F & FW	Rejuvenation of old orchards	01	-	-	-	-	-	-	25
Oct. Nov.	F & FW	Micro irrigation systems of orchards	01	-	-	-	-	-	-	25

July, Aug.	F & FW	Plant propagation techniques	01	-	-	-	-	-	-	25
September	F & FW	Management of potted plants	01	-	-	-	-	-	-	25
Sept, Oct.	F & FW	Export potential of ornamental plants	01	-	-	-	-	-	-	25
July, Aug.	F & FW	Propagation techniques of Ornamental Plants	01	-	-	-	-	-	-	25
July, Aug.	F & FW	Production and Management technology in tuber crops	01	-	-	-	-	-	-	25
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
June	F & FW	Importance of Soil fertility & their Management	01	-	-	-	-	-	-	25
July	F & FW	Integrated nutrient Management in Kharif Crops	01	-	-	-	-	-	-	25
June, August	F & FW	Production and use of organic inputs	01	-	-	-	-	-	-	25
July	F & FW	Nutrients Deficiency in Kharif crops	01	-	-	-	-	-	-	25
June	F & FW	Balance Use of fertilizer in Kharif crops	01	-	-	-	-	-	-	25
June	F & FW	Soil Sampling Technique & its Importance	01	-	-	-	-	-	-	25
August, July	F & FW	Method & Use of Vermi composting	01	-	-	-	-	-	-	25
June	F & FW	Vermicompost production technology	01	-	-	-	-	-	-	25
Oct.	F & FW	Importance of Soil fertility & their Management	01	-	-	-	-	-	-	25
September	F & FW	Integrated Nutrient Management in Rabi crops	01	-	-	-	-	-	-	25
Oct, December, Jan	F & FW	Production and use of organic inputs	01	-	-	-	-	-	-	25
September, Oct.	F & FW	Nutrients Deficiency in Rabi crops	01	-	-	-	-	-	-	25
Feb	F & FW	Balance Use of fertilizer in Rabi Crops	01	-	-	-	-	-	-	25
April	F & FW	Soil Sampling Technique & its Importance	01	-	-	-	-	-	-	25
March	F & FW	Needs of organic farming	01	-	-	-	-	-	-	25
May, March, Feb	F & FW	Vermicompost production technology	01	-	-	-	-	-	-	25
April, May	F & FW	Method of soil sampling	01	-	-	-	-	-	-	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July, August	F & FW	Weed Management in Kharif Crop	01	-	-	-	-	-	-	25
July	F & FW	Resource conservation methods for moisture conservation in Kharif crops	01	-	-	-	-	-	-	25
June	F & FW	Production technology of soybean based cropping system with raised bed	01	-	-	-	-	-	-	25
June	F & FW	Crop diversification in kharif crops	01	-	-	-	-	-	-	25

Soil Science										
June	F & FW	Importance of Soil fertility & their Management	01	-	-	-	-	-	-	25
July	F & FW	Integrated nutrient Management in Kharif Crops	01	-	-	-	-	-	-	25
June, August	F & FW	Production and use of organic inputs	01	-	-	-	-	-	-	25
July	F & FW	Nutrients Deficiency in Kharif crops	01	-	-	-	-	-	-	25
June	F & FW	Balance Use of fertilizer in Kharif crops	01	-	-	-	-	-	-	25
June	F & FW	Soil Sampling Technique & its Importance	01	-	-	-	-	-	-	25
August, July	F & FW	Method & Use of Vermi composting	01	-	-	-	-	-	-	25
June	F & FW	Vermicompost production technology	01	-	-	-	-	-	-	25
Oct.	F & FW	Importance of Soil fertility & their Management	01	-	-	-	-	-	-	25
September	F & FW	Integrated Nutrient Management in Rabi crops	01	-	-	-	-	-	-	25
Oct, Dec, Jan	F & FW	Production and use of organic inputs	01	-	-	-	-	-	-	25
September, Oct.	F & FW	Nutrients Deficiency in Rabi crops	01	-	-	-	-	-	-	25
Feb	F & FW	Balance Use of fertilizer in Rabi Crops	01	-	-	-	-	-	-	25
April	F & FW	Soil Sampling Technique & its Importance	01	-	-	-	-	-	-	25
March	F & FW	Needs of organic farming	01	-	-	-	-	-	-	25
May, March, Feb	F & FW	Vermicompost production technology	01	-	-	-	-	-	-	25
April, May	F & FW	Method of soil sampling	01	-	-	-	-	-	-	25

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	Inservice personnel	Quality seed production of Soybean	02	-	-	-	-	-	-	20
October	Inservice personnel	Quality seed production of Wheat	02	-	-	-	-	-	-	20
Horticulture										
June	Inservice personnel	Nursery Management	02	-	-	-	-	-	-	20
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
August- Sept.	Inservice personnel	Integrated Pest Management in Kharif Crops	02	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
September		Natural Farming and Organic Farming	02	-	-	-	-	-	-	20

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Lectures delivered as resource persons	20									1000
Newspaper coverage	25									Mass
Radio talks	12									
TV talks	08									
Popular articles	03									
Extension Literature	08									
Advisory Services	50									127856
Scientific visit to farmers field	80									2400
Farmers visit to KVK	50									1000
Diagnostic visits	50									1000
Exposure visits	04									200
Ex-trainees Sammelan	02									100
Soil health Camp	02									200
Animal Health Camp	01									50
Agri mobile clinic	0									0
Soil test campaigns	02									200
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days										
Others (pl. specify)										
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
	Wheat	HI-1544	400
	Wheat	Lok-1	400
OILSEEDS			
	Soybean	JS 20-98	140
	Soybean	Soybean RVS-24	100
PULSES			
	Chick pea	RVG-204	100
VEGETABLES			
	Bottel Gourd	Kashi Ganga	1
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Custred apple	Balanagar, NMK-1,	200
	Guava	Gwalior-27, L-49, Lalit, Allahabadi Safeda	300
	Citrus	Kagji Lime, Sai Sharbati, Nagpuri Mandarin,	250
	Jack Fruit	Singapuri	150
	Anola	N-7	50
	Spota	Kali Patti	100
	Mango	Amrpali, Keshar, Dashahri	500
	Karonda	Local	100
	Watermelon	Sagar King	300
SPICES			

	Onion	AFDR	2000
VEGETABLES			
	Chili	Arka Sanya	2000
	Tomato	Himshikhar	2500
	Tomato	US 1057	1000
	Drum stick	NMK-1	500
FOREST SPECIES			
	-	-	-
ORNAMENTAL CROPS			
	-	-	-
PLANTATION CROPS			
	Marigold	Pusa narangi	500

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	<i>Rhizobium</i>	-	-	-
3	-	-	-	-
BIOFERTILIZERS				
1	Vermicompost	<i>Eisenia fetida</i> <i>Eudrilus eugeniae</i>		100000
2	NADEP	-	-	-
3	-	-	-	-
BIO PESTICIDES				
1	Dasparni arkl			1000 Lit.
2	Pesticides			1000 Lit.

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Gir Cow	Gir	4	-
SHEEP AND GOAT	Goat	Sirohi, Jamnapari, Barbari	9+1 9+1 9+1	-
POULTRY	Chicks	Kadaknath	1200	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
March 2023	January to March 2023	1000
June 2023	April to June 2023	1000
September 2023	July to September 2023	1000
December 2023	October to December 2023	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Agri Drone	02
2	CD	Natural Farming	01
3	CD	Vermicomposting	01

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.	Sultanpur	Dhar	25
2.	Talwada	Dhar	15
3.	Uttarsi	Dhar	12
4.	Rajod	Dhar	90
5.	Chalni	Sardarpur	31
6.	Bakhankheda	Nalcha	30
7.	Mahanpura	Sardarpur	51
8.	Ambapura	Tirla	22
9.	Dholahanuman	Tirla	29
10.	Lobhanpura	Nalcha	22
11.	Digthar	Nalcha	24
12.	Bachrawda	Nalcha	18
13.	Amla	Tirla	43
14.	Mehandikhedi	Nalcha	30
15.	Shikarpura	Nalcha	32
16.	Patadi	Nalcha	35
17.	Umarpura	Nalcha	33
18.	Idriya Dadur	Sardarpur	41
19.	Bhilbarkheda	Nalcha	30

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: 2011 (Soil Testing Laboratory)

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Hand in Hand (NGO)	Technology transfer to farmers through NGO
Child fund	Technology transfer to farmers through NGO

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Trainings, Interfacek, Kishan gothies, Farmers fairs, FLDs, Diagnostic visits, Farmer's field visit, Exposure visits etc.	Convergence

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Trainings	Convergence and sponsored

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- Dec. 2023	Training programmes under ARYA	200
Jan- Dec. 2023	Training programmes, FLDs, Farmers Fair, Awareness Programme, Kisan Gosthies and demonstration under Natural Farming	1000
Jan- Dec. 2023	Training programmes, FLDs under	500

Planning for Crop CafeteriaTotal Area of Crop cafeteria: **4000** Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	NRC 127	-	5 x 5
Soybean	Kharif	NRC 130	-	5 x 5
Soybean	Kharif	NRC 138	-	5 x 5
Soybean	Kharif	NRC 150	-	5 x 5
Soybean	Kharif	NRC 152	-	5 x 5
Soybean	Kharif	JS 21-72	-	5 x 5
Soybean	Kharif	1050	-	5 x 5
Soybean	Kharif	JS 335	-	5 x 5
Soybean	Kharif	JS 95-60	-	5 x 5
Soybean	Kharif	JS 20-98	-	5 x 5
Soybean	Kharif	JS 20-69	-	5 x 5
Soybean	Kharif	JS 20-34	-	5 x 5
Soybean	Kharif	JS 20-29	-	5 x 5
Soybean	Kharif	RVSM-35	-	5 x 5
Soybean	Kharif	RVS-18	-	5 x 5
Soybean	Kharif	RVS 2001-4	-	5 x 5
Soybean	Kharif	RVS-24	-	5 x 5
Soybean	Kharif	RVS-76	-	5 x 5
Balck Gram	Kharif	IUP-1	-	5 x 5
Balck Gram	Kharif	Pratap Urd-31	-	5 x 5
Balck Gram	Kharif	LBG-65	-	5 x 5
Balck Gram	Kharif	J.U.-3	-	5 x 5
Balck Gram	Kharif	J.U-86	-	5 x 5
Green Gram	Kharif	JM-721	-	5 x 5
Green Gram	Kharif	IPM 410-3 (Shikha)	-	5 x 5
Green Gram	Kharif	Virat	-	5 x 5
Green Gram	Kharif	Samrat	-	5 x 5
Green Gram	Kharif	IPM 2-3	-	5 x 5
Maize	Kharif	Trimurti shreenath	-	5 x 5
Maize	Kharif	JVM-421	-	5 x 5
Maize	Kharif	Pro Agro-4212	-	5 x 5
Maize	Kharif	Kanchan Maize	-	5 x 5
Maize	Kharif	Aakash Ganga	-	5 x 5
Maize	Kharif	BIO-9637	-	5 x 5
Pigeonpea (Tur/Arhar)	Kharif	JA-4	-	5 x 5
Pigeonpea (Tur/Arhar)	Kharif	JKM-189	-	5 x 5
Pigeonpea (Tur/Arhar)	Kharif	ICPL-151	-	5 x 5
Wheat	Rabi		-	5 x 5
Wheat	Rabi	HI 1531	-	5 x 5
Wheat	Rabi	HI 1500	-	5 x 5
Wheat	Rabi	HW 2004	-	5 x 5
Wheat	Rabi	JW-3336	-	5 x 5
Wheat	Rabi	HI- HI 86638691	-	5 x 5
Wheat	Rabi	HD 4672	-	5 x 5
Wheat	Rabi	HI- 8627	-	5 x 5
Wheat	Rabi	Lok-1	-	5 x 5
Wheat	Rabi	HI-1605	-	5 x 5
Wheat	Rabi	GW-322	-	5 x 5
Wheat	Rabi	HI-8737	-	5 x 5
Wheat	Rabi	HI-8713	-	5 x 5
Crop	Season	Variety	Particulars /details	Area (Sq m)

Wheat	Rabi	HI-8381	-	5 x 5
Wheat	Rabi	HI 8498	-	5 x 5
Wheat	Rabi	HI-8759	-	5 x 5
Wheat	Rabi	GW 366	-	5 x 5
Wheat	Rabi	HI-2932	-	5 x 5
Wheat	Rabi	DL-788-2	-	5 x 5
Wheat	Rabi	HI 1563	-	5 x 5
Wheat	Rabi	JW-3173	-	5 x 5
Wheat	Rabi	HD 2987	-	5 x 5
Wheat	Rabi	HI 8381	-	5 x 5
Wheat	Rabi	JW 17	-	5 x 5
Wheat	Rabi	HI-1418	-	5 x 5
Wheat	Rabi	HI 1544	-	5 x 5
Wheat	Rabi	RVW-4106	-	5 x 5
Wheat	Rabi	HI 1479	-	5 x 5
Wheat	Rabi	DBW-110	-	5 x 5
Chick pea	Rabi	JG-11, JG-6, JG-130, Vishal, JAKI 9218, JG-218, JG-16, ICPK 2004-29, RVG 202, JGK-3, RVKG-101, PKV-4.	-	5 x 5
Onion	Rabi	AFLR, Bhima Super & Bhima Subhra	-	5 x 5
Garlic	Rabi	G-282	-	5 x 5
Pea	Rabi	Arkel	-	5 x 5
Cucumber	Rabi	AVIVA	-	5 x 5
Tomato	Rabi	US 1057, Himshikhar, US-1143, TO-2048, NS 629, NS 538	-	5 x 5
Marigold:	Rabi	Maxima Yellow, New China orange, Kalkatti, Pusa Narangi	-	5 x 5
Okra	Rabi	VRO-6, VRO-22	-	5 x 5

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermiculture & Vermi composting	Production of vermicompost	2000	Vermicopost & Worms
Seed Production Unit	Breeder seed production	24000	Breeder Seed
Horticulture Units 1. Net House (Size 20.5x18.50m) 2. Poly house (Size 5x20m) 3. Poly cum net house (Size 18.40 x24.0m)	Production of Vegetables, Seedling, Saplings and demonstration purpose.	10000	Vegetables, Seedling, Saplings etc
Azola Unit	Production of Azola firm	150	Azola firm
Dairy Unit	Production of Milk and prepration of inputs for Natural farming	1500	Milk
Kadakhnath Poultry Unit	Production of Chicks & Eggs	250	Chicks & Eggs
Goatery Unit	Production of kids and buck	250	Goats
Biogas Unit	Production of Biogas and biogas slurry	100	Biogas
Organic farming	Production of Organic Inputs and Organic produce	10000	Organic Inputs and Organic produce
Fodder production unit	Fodder production for dairy unit	4000	Fodder
Natural Farming	Production of Natural Farming Inputs and Natural produce	20000	Natural Farming Inputs and Natural produce

KVK__Manawar (Dhar-II)

1.1 Name of the Programme Coordinator with phone & mobile No.

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 20.0

S. No.	Item	Area (ha)
1	Under Buildings	3.5
2	Under Demonstration Units	0.5
3	Under Crops	15.0
4	Orchard/Agro-forestry	0.5
5	Others (specify)	-
Total		19.5

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	2021	294	15180000	-	-	-
2	Farmers Hostel	ICAR	2021	323	7100000	-	-	-
3	Staff Quarters (6)	NIL	-	-	-	-	-	-
4	Demonstration Units (2)	NIL	-	-	-	-	-	-
5	Fencing	ICAR	-	-	-	-	-	-
6	Rain Water harvesting system	NIL	-	-	-	-	-	-
7	Threshing floor	NIL	-	-	-	-	-	-
8	Farm godown	NIL	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	603856	131.40(h)	Serviceable
Motor Cycle 2	NIL	-	-	-
Bolero(Jeep)	2019	647624	53265	Serviceable
Other (Pl. specify)	-			

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2022	44400	serviceable
Xerox Machine	Nil	Nil	Nil
Generator	Nil	Nil	Nil
Video Camera	Nil	Nil	Nil
Computer	2020 2020 2021	49300 48000 46080	serviceable
Laser Printer	2019 2022	16500 15900	serviceable

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

Sl. No.	Tentative Date
1	01.05.2023
2	01.10.2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1	
2	AES – 2	
3	AES – 3	
4		
5		
6		

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 10 th Agro climatic Zone Nimar Valley- Manawar, Umarbar, Dharampuri, Nisarpur	Soil Type Medium Black fe rtility level is medium.
2	AES – 2 11 th Agro climatic Zone JHABUA HILLS- Kukshi, Bag, Dahi	Soil Type Medium gravelly black, light medium.
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	819
Forest	117
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	47
Bushes	
Current Fallow	2.0
Other Fallow	3.0
Agricultural Land	743.9
Area Sown	504.5
Kharif	514.630
Rabi	412.300
Zaid	
Cropping Intensity	147%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	13.3
2	Well	82.1
3	Tube well	122.7
4	Ponds	12.0
5	Others	51.8

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light soils (ha)		287.80
2	Medium soils (ha)		173.60
3	Heavy soils (ha)		352.20
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	Production (tons)	Productivity (Q /ha)
1	Maize	79.290	262.450	33.10
2	Black Gram	7.31	6.235	8.53
3	Green Gram	6.94	5.913	8.52
4	Pigeonpea	6.300	9.797	15.55
5	Soybean	285.10	459.011	16.10
6	Cotton	98.13	197.732	20.15
7	Wheat	220.9	945.452	42.80
8	Chickpea	145.0	249.400	17.20
9	Mustard	0.100	0.131	13.10
10	Sugarcane	5.0	351.800	703.60

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	7.0	27.15	14.63
Feb, 22	0.0	30.51	18.1
Mar, 22	11.0	34.9	22.2
Apr, 22	0.0	38.95	26.58
May, 22	0.0	40.44	28.72
Jun, 22	38.5	35.96	26.98
July, 2022	287.5	29.72	24.09
Aug., 2022	100.5	28.12	22.61
Sept., 2022	120.5	29.53	22.14
Oct. 2022	46.0	30.65	19.44
Nov. 2022	0.0	31.9	21.85
Dec. 2022	0.0	27.82	15.92

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		 MT.	 kg
Buffalo	123292	 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats	400508	 MT	 kg
Pigs Crossbred/ Indigenous	272	---	---
Rabbits			
Poultry			
Hens	401243	 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	Manawar	Manawar	Bhagyapur	Soybean,cotton,wheat, Chickpea, Maize	*Intensive and continuous cotton production resulted increasing use of fertilizer & low productivity, *Poor yield of local and old variety in pigeonpea and Chickpea, *Unemployment of rural population, *Area and productivity of cereal and oilseed crops, particularly soybean is towards declining trend, *Indiscriminate and non judicious use of pesticides specially in chilli for controlling the leaf curl diseases, *Inadequate control measures of Soil & water conservation, *Lack of knowledge regarding value addition, *Imbalance use of Fertilizer,	*Integrated Crop Management, *Integrated Disease & Pest Management, *Income generation activities for empowerment of rural youth, *Drudgery reduction for farm women, *To create awareness about value addition & Processing, *To popularize organic farming in the district, *To create awareness about judicious use of Irrigation water, *Balance diet supplement for rural children and farm women,
2	Manawar	Umarban	Ahirwas	Soybean,cotton,wheat, Chickpea, Maize		
3	Manawar	Manawar	Wayal	Soybean,cotton,wheat, Chickpea, Maize		
4	Manawar	Manawar	Gulati	Soybean,cotton,wheat, Chickpea, Maize		
5	Manawar	Umarban	Badada	Soybean,cotton,wheat, Chickpea, Maize,Sugarcan		
6	Manawar	Manawar	Gulati	Soybean,cotton Chickpea, Maize		
7	Kukshi	Kukshi	Girvanya	Soybean,cotton Chickpea, Maize		
8	Kukshi	Nisarpur	Daher	Soybean,cotton Chickpea, Maize, balckgram, pigeonpea		

Priority / Thrust areas

S. No.	Particulars
1.	Integrated Crop Management
2.	Integrated Disease & Pest Management
3.	Income generation activities for empowerment of rural youth

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	140	11	235

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
67	1675	316	4740

Seed Production (Qtl.)	Planting material (Nos.)
450	4000

B. Abstract of interventions to be undertaken

[illegible]

Technologies to be assessed

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

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								

Detailed Information about OFT:

2.1. Information about OFT: (A)

Name of Crop/Enterprises:	Soybean
Title of on-farm trial:	Assessment of herbicides for weed management in soybean
Year/Season:	Kharif 2023-24
Farming situation:	Semi-irrigated
Problem diagnosis:	Low productivity due to heavy weed infestation in soybean
Thematic area:	IWM
No of trials:	10
No. of farmers involved	10
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imazethapyr 10% @ 100 ml ai/ha at 18 DAS
T2 –Recommended Practice-	Sulfentrazone @ 360 g ai/ha PE
T3- Recommended Practice-	Diclosulam 84 WDG@ 22 g ai/ha PE
Date of sowing:	
Date of harvesting:	
Source of technology:	IISR, Indore 2016
Characteristics of technology:	Sulfentrazone 39.6% SC is a soil-applied selective herbicide that controls specific grasses, sedges, and broadleaf weeds. Diclosulam is effective against a range of important broadleaf weeds in soybean crops including morning glories, cocklebur, eclipta
Name of Crop/Enterprises:	
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)
Pods per Plant				
Grains per Pod				
Grain Yield				
% Infection of Plant				

2.1 Information about OFT: (B)

Title of on-farm trial:	Assessment of improved Varieties of Onion
Year/Season:	Kharif 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to adoption of old varieties
Thematic area:	Variety Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	AFDR
T2 –Recommended Practice-	NHRDF Red 2
T3- Recommended Practice-	NHRDF Red 4
Date of sowing:	
Date of harvesting:	
Source of technology:	NHRDF (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Infestation of plants	%			
yield	(q/ha)			

2.1 Information about OFT: (C)

Title of on-farm trial:	Assessment of intercropping in cotton for additional production
Year/Season:	Kharif 2023-24
Farming situation:	irrigated
Problem diagnosis:	Low productivity
Thematic area:	
No of trials:	20
No. of farmers involved	20
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cotton sole crop
T2 –Recommended Practice-	Cotton + Cucumber
T3- Recommended Practice-	Cotton + Greengram
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	Cotton
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)
Pods per plant				
Grains per pod				
Grain Yield				
Weeds per sqm				

2.1 Information about OFT: (D)

Title of on-farm trial:	Assessment of leaf curl managemt in chilli
Year/Season:	Kharif 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to high population of sucking pests in chilly
Thematic area:	Integrated Pest Management
No of trials:	10
No. of farmers involved	10
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T-1 : Profenophos @ 1 Litre/ha
T2 –Recommended Practice-	T-2 : Imidacloprid 17.8% @ 0.5 ml/Litre of water spray at 15 days intervals
T3- Recommended Practice-	T-3 : Fipronil 5% @ 1.0 ml/Litre of water spray at 15 days intervals
Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR, 2018
Name of Crop/Enterprises:	Chilli
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)
Pods per plant				
Grains per pod				
Grain Yield				
Affected plants per sqm				

2.1 Information about OFT: (E)

Title of on-farm trial:	Assessment of Natural Farming for productivity enhancemet in Wheat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to beneficial microorganism
Thematic area:	CP
No of trials:	10
No. of farmers involved	10
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of fertilizer
T2- Recommended Practice-	Use of bijamrit for seed treatment and jivamrit first spray at 21 DAS then 4 Spray at 15 Days interval
Date of sowing:	
Date of harvesting:	
Source of technology:	NCOF, Gaziabad (UP)
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Plant height				
Size of bulb				
Yield (q/ha)				
BC ratio				

2.1 Information about OFT: (F)

Title of on-farm trial:	Assessment of pod borer management in chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Semi-Irrigated
Problem diagnosis:	Losses about 18-20% due to heavy infestation of Gram Pod Borer in Chickpea Crop.
Thematic area:	IPM
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 Chlorpyrifos 20% EC@1500 ml/ha
T2 –Recommended Practice-	Use of HaNPV @ 250 LE/ha At Incidence of insect Pest
T3- Recommended Practice-	Use of 3% Agnistra (at Incidence insect pest and then need based application
Date of sowing:	
Date of harvesting:	
Source of technology:	NCOF, Gaziabad
Characteristics of technology:	Economic & Eco friendly due to material available locally
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Weight of fruit				
infected fruits per plant				
fruit Yield (q/ha)				

2.1 Information about OFT: (G)

Title of on-farm trial:	Assessment of improved Varieties Wheat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to old variety LOK-1
Thematic area:	VE
No of trials:	10
No. of farmers involved	10
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	LOK-1
T2 –Recommended Practice-	HI 1636
T3- Recommended Practice-	HI 1634
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR IARI, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Weight of fruit				
Number of fruits per plant				
fruit Yield (q/ha)				

2.1 Information about OFT: (H)

Title of on-farm trial:	Assessment of herbicide in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Semi-Irrigated
Problem diagnosis:	Low yield 25-30% Due to weed infestation
Thematic area:	IWM
No of trials:	10
No. of farmers involved	10
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Dora at 25-30 DAS
T2 –Recommended Practice-	Pendimethalin 38.7% EC@796gm a.i/ha PE 0-3 DAS + Hand Weeding at 30 DAS
T3- Recommended Practice-	Topramazone 33.6%SC@25gma.i/ha POE 20-25 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	Selective Herbicide, Broad Spectrum Weed Control
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Effective tillers per plant				
Grain per Spike				
Grain Yield				

2.1 Information about OFT: (I)

Title of on-farm trial:	Assessment Use of extract of neem leaves and parthenium to check infestation of Helicoverpa sp in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Semi Irrigated
Problem diagnosis:	Chickpea is the main pulse crop of the district and Helicoverpa causes damage and reduce yield.
Thematic area:	ITK
No of trials:	10
No. of farmers involved	10
Details of technology selected for assessment/ refinement :	
T1 – Farmers Practice-	Use of Chemical
T2 –Recommended Practice-	Use of extract of neem leaves and parthenium to check infestation of Helicoverpa sp.
Date of sowing:	
Date of harvesting:	
Source of technology:	Inventory of ITK in Agriculture Document 2(Supplement 1)Chapter 5 Code No. 2303 Director of Extension Education, Mahatma Phule Krishi Vidyapeeth, Rahuri,Ahmednagar (Maharashtra) 413 722
Characteristics of technology:	farmers use extract of neem leaves and Parthemium sp. to control Helicoverpa sp. Parthenium and neem leaves are taken in equal quantity and dipped in water for 24 hours, after crushing them. The extracted solution @ 20 ml is sprayed in dilution with water in 10 litres water
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
% Infestation of pods				
No. of Larva m ²				
yield (q/ha)				

2.1 Information about OFT: (J)

Title of on-farm trial:	Assessment of Storage of wheat by using Lime
Year/Season:	Rabi 2023-24
Farming situation:	Semi Irrigated
Problem diagnosis:	Reduce of Grain Quality due to Poor Storage
Thematic area:	ITK
No of trials:	10
No. of farmers involved	10
Details of technology selected for assessment/ refinement :	
T1 – Farmers Practice-	Use of Chemical
T2 –Recommended Practice-	Storage of wheat by using Lime
Date of sowing:	
Date of harvesting:	
Source of technology:	Volume 2 Page No. 61 Code No. 2970
Characteristics of technology:	To protect wheat from storage pests, 100 g lime is placed in 1 q wheat. By using this practice, wheat can be stored for about 1 year.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Time taken for decomposition				
NPK and OC of FYM				
B:C ratio				

2.1 Information about OFT: (K)

Title of on-farm trial:	Assessment grain by Storage of grain by Neem leaves) (<i>Azadirachta indica</i>)
Year/Season:	Round the Year 2023-24
Farming situation:	Semi Irrigated
Problem diagnosis:	Reduce of Grain Quality due to Poor Storage
Thematic area:	Grain storage
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 (ALP)
T2 –Recommended Practice-	Storage of grain by Neem leaves) (<i>Azadirachta indica</i>)
Date of sowing:	
Date of harvesting:	
Source of technology:	ITK Volume 2 Page No. 110 Code No. 2971
Characteristics of technology:	Farmers keep 3 kg neem { <i>Azadirachta indica</i>) leaves in 1.00 q grain, which keeps the grain safe for minimum 1 year
Name of Crop/Enterprises:	Grains
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)
Year per plant				
Test weight				
Plant height				
Yield (q/ha)				
Infected plants per sqm				

2.1 Information about OFT: (L)

Title of on-farm trial:	Assessment of round the year green fodder production system for DFI.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Lack of Green fodder
Thematic area:	LPM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement :	
T1 – Farmers Practice-	Conventional (Only grow maize/sorghum and berseem)
T2 –Recommended Practice-	RYGFP (planting of NB Hybrid (3x3) m distance of grown in between fodder crops cowpea-berseem)
T3- Recommended Practice-	RYGFP (Planting of NB Hybrid in paired rows (1x1x1) m distance and grown in between fodder crops cowpea- berseem)
Date of sowing:	
Date of harvesting:	
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	Green Fodder
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)
Improved High Yielding Variety Early maturity 115-120 DAS				

2.1 Information about OFT: (M)

Title of on-farm trial:	Assessment of virtual meeting and training programme on Google Meet .
Year/Season:	Round the Year 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Farmers not able to come to KVK for training and for consultation related with agriculture and allied sectors. To Seek immediate solution for their problems.
Thematic area:	ICT
No of trials:	20
No. of farmers involved	20
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement :	
T1 – Farmers Practice-	Physically (Offline & self)
T2 –Recommended Practice-	Virtual Google meet
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	-

Result : (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)

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	INM	Demonstration of INM in Soybean 5.0 T FYM + 75 % RDF + 25 S Kg/ha	MOP And Sulphur	Kharif	2.0	05	No of pods/plant, No. of Grain / pod, wt(g), No of nodules/plant, yield/ha
2	Maize	IWM	Demonstration of herbicide in Maize by Topramezone 33.6 g ai/ha (PoE)	Topramezone 33.6 g ai/ha (PoE)	Kharif	2.0	05	No of weeds/m ² ,No of Cobs/plant, no. of grains, yield/hac
3	Maize	INM	Demonstration of INM in Maize 5 T FYM + 75 % RDF + PSB and Azotobator	K 40kg/ha and Zink 5kg/ha PSB and Azotobator 5ml each /kg of seed	Kharif	2.0	05	No of Cobs/plant ,lenth of cobs cm. , no. of grains, yield/ha
4	Wheat	INM	Demonstration of INM in Wheat 5 T FYM + 75 % RDF + PSB and Azotobator	5 T FYM + 75 % RDF + PSB and Azotobator	Rabi	2.0	05	No of tillers/plants, Plant Height(cm), length of spike (cm) yield q/ha
5	Wheat	VE	Demonstration of improved Varieties Wheat Pusa Tejas HI 8759	Pusa Tejas HI 8759	Rabi	2.0	05	Plant Height(cm), No of pods/plant, No. of Grain / pod, yield q/ha
6	Chickpea	IWM	Demonstration of herbicide in Chickpea by Topramezone 25.28 g ai/ha (PoE)	Topramezone 25.28 g ai/ha (PoE)	Rabi	2.0	05	No of weeds/m ² , weed control efficiency, No of pods/plant, No. of Grain / pod, Yield/ha
7	Pearlmillet	CP	Demonstration of INM in Pearl millet	Seed , PSB and Azotobacter , Zink , K	Kharif	2.0	05	Plant Height(cm), No of ear/plant, length of ear (cm), yield q/ha

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	7	Rabi & Kharif	175
2	Farmers Training	16	Rabi & Kharif	480
3	Media coverage	23	Rabi & Kharif	Mass
4	Training for extension functionaries	5	Rabi & Kharif	100

Details of FLD on Enterprises

Farm Implements

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

**Field efficiency, labour saving etc.*

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Black gram		Cluster Demonstration of improved variety of Soybean RVS-24 with RDF 25N:60P:40K:30S kg/ha		Kharif	20.0	50	
2	Pigeon pea		Cluster Demonstration of improved variety of Pigeon pea- Rajeshwari with RDF 20N:50P:20K:30S kg/ha		Kharif	10.0	25	
3	Soybean		Cluster Demonstration of improved variety of Black gram MU-2 with RDF 20N:50P:20K:30S kg/ha		Kharif	10.0	25	
4	Groundnut		Cluster Demonstration of improved variety of Groundnut- GKVK-5		Kharif	10.0	25	
5	Mustard		Cluster Demonstration of improved variety of Mustard- IJ 31 with RDF 80N:40P:20K:30S kg/ha		Rabi	10.0	25	
6	Chickpea		Demonstration of improved variety of Chickpea- RVG 203 20N:50P:20K:30S kg/ha		Rabi	20.0	50	

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	Rabi & Kharif	100
2	Farmers Training	8	Rabi & Kharif	240
3	Media coverage	12	Rabi & Kharif	Mass
4	Training for extension functionaries	2	Rabi & Kharif	40

Training (Including the sponsored and FLD training programmes)

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 Mnagement of Kharif Crops		1	1							25
Importance of Zero tillage sowing		1	1							25
package & Practices of Cotton-Chickpea Cropping system		1	1							25
package & Practices of Maize-Chickpea Cropping system		1	1							25
Importance of Micro(Drip) Irrigation in Chickpea		1	1							25
Seed Production Technology of Chickpea		1	1							25
Seed Production Technology of wheat		1	1							25
Seed Production Technology of Rabi Pulses		1	1							25
Seed Production Technology of wheat		1	1							25
Production technology of pearl millet		1	1							25
Package & Practices of Kharif Crops		1	1							25
Production Technology of Maize		1	1							25
Package & Practices of Cotton		1	1							25
Water Management of Kharif Crops		1	1							25
INM in Rabi Crops		1	1							25
INM in Cotton Crops		1	1							25
Horticulture (Vegetable Crops)		1	1							25
Production technology of Chili		1	1							25

Thematic Area		No. of Courses	Duration (Days)	No. of Participants						
				Others			SC/ST			Grand Total
				Male	Female	Total	Male	Female	Total	
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing										
Total		3	3						75	
	(IV) Livestock Production and Management									
Production Technology of Backyard Poultry (Kadaknath)		1	1						25	
Package and practice of Round the year green fodder		1	1						25	
Disease Management										
Feed management										
Production of quality animal products										
Total		2	2						50	
(V) Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening		1	1						25	
Design and development of low/minimum cost diet		1	1						25	
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		2	2						50	
(VI) Agril. Engineering										
Total										
(VII) Plant Protection										
IPM in Kharf Crops		1	1						25	
IPM in Rabi Crops		1	1						25	

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Sheep and goat rearing									
Para extension workers									
TOTAL	3	12							75
(C) Extension Personnel									
Production Technology of Kharif crops	1	1							
Production Technology of Rabi crops	1	1							25
weed management in Rabi crops	1	1							25
insect Pest Management in Cotton Crop	1	1							25
Importance of Self Help group	1	1							25
Production Technology of round the year green fodder	1	1							25
TOTAL	6	6							150

A) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1							25
Resource Conservation Technologies	1	1							25
Cropping Systems	1	1							25
Crop Diversification	1	1							25
Integrated Farming	1	1							25
Water management	1	1							25
Seed production	1	1							25
Nursery management	1	1							25

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	6	6							150
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	3	3							75
Integrated Disease Management	1	1							25
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	4	4							100
(B) RURAL YOUTH	2	2							50
Production of organic inputs									
Sheep and goat rearing									
TOTAL	2	2							50
(C) Extension Personnel	2	2							50
TOTAL	2	2							50

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Client ele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
May		package & Practices of Cotton-Chickpea Cropping system	1							25
May		Package & Practices of Cotton	1							25
May		INM in Cotton Crops	1							25
May		Horticulture (Vegetable Crops)	1							25
May		Production technology of Chili	1							25
June		Production technology of pearl millet	1							25
June		Package & Practices of Kharif Crops	1							25
June		Production Technology of Maize	1							25
June		Weed Mnagement of Kharif Crops	1							25
June		package & Practices of Maize-Chickpea Cropping system	1							25
June, July		Importance of Zero tillage sowing	1							25
July		Water Management of Kharif Crops	1							25
October		Importance of Micro(Drip) Irrigation in Chickpea	1							25
October		Seed Production Technology of Chickpea	1							25
October		Seed Production Technology of Rabi Pulses	1							25
October		Seed Production Technology of wheat	1							25
October		INM in Rabi Crops	1							25
November		Seed Production Technology of wheat	1							25
December		Package and practice of Organic Vegetable	1							25
March		Importance of Micro Irrigation in fruits and vegetable crops	1							25

Horticulture										
Sep		Off-season vegetables	1							25
Soil Health and Fertility Management										
July		Production Technology of Vermi Compost	1							25
Oct		Importance of organic farming	1							25
Nov		Importance of Balance use of fertilizer in wheat	1							25
Livestock production										
April		Production Technology of Backyard Poultry (Kadaknath)	1							25
May		Package and practice of Round the year green fodder	1							25
Home Science										
July		Household food security by kitchen gardening and nutrition gardening	1							25
Nov		Design and development of low/minimum cost diet	1							25
Plant Protection										
july		Production technology of Neemastra	1							25
Aug.		IPM in Kharf Crops	1							25
Aug.		IPM in Cotton Crops	1							25
Sep		Integrated Disease Management in Vegetables Crop	1							25
Nov.		IPM in Rabi Crops	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
May		Production Technology of Kharif crops	1							25
July		insect Pest Management in Cotton Crop	1							25
Sep.		Production Technology of Rabi crops	1							25
Nov.		weed management in Rabi crops	1							25
Jan.		Importance of Self Help group	1							25
Mar.		Production Technology of round the year green fodder	1							25

Mar.		Importance of Integrated farming	1							25
Mar.		Production Technology of Wheat seed production	1							25
Mar.		Production Technology of Check pea seed production	1							25
SoilScience										
Jan		Production Technology of Vermi Compost	4							100
Nov		Importance of organic farming	2							50

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
May		package & Practices of Cotton-Chickpea Cropping system	1							25
May		INM in Cotton Crops	1							25
May		Production technology of Chili	1							25
May		Package & Practices of Cotton	1							25
June		Weed Mnagement of Kharif Crops	1							25
June		package & Practices of Maize-Chickpea Cropping system	1							25
June		Production technology of pearl millet	1							25
June		Package & Practices of Kharif Crops	1							25
June		Production Technology of Maize	1							25
June		Horticulture (Vegetable Crops)	1							25
June, July		Importance of Zero tillage sowing	1							25
July		Water Management of Kharif Crops	1							25
October		Importance of Micro(Drip) Irrigation in Chickpea	1							25

October		Seed Production Technology of Chickpea	1							25
October		Seed Production Technology of Rabi Pulses	1							25
October		Seed Production Technology of wheat	1							25
October		INM in Rabi Crops	1							25
November		Seed Production Technology of wheat	1							25
December		Package and practice of Organic Vegetable	1							25
March		Importance of Micro Irrigation in fruits and vegetable crops	1							25
Horticulture										
Soil Health and Fertility Management										
April		Soil fertility management	1							25
May		Soil and Water Conservation	1							25
		Integrated Nutrient Management	1							25
		Production and use of organic inputs	1							25
Livestock production										
April		Production Technology of Backyard Poultry (Kadakhnath)	1							25
May		Package and practice of Round the year green fodder	1							25
Home Science										
Plant Protection										
August		IPM in Kharf Crops	1							25
Aug.		IPM in Cotton Crops	1							25
September		Integrated Disease Management in Vegetables Crop	1							25
Nov.		IPM in Rabi Crops	1							25

Integrated Disease Management in Vegetables Crop

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS	Soybean	JS 20-116	225.00
PULSES	Chickpea	RVG 202	225.00
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES	Chili		1000
VEGETABLES	Brinjal		1000
	Tomato		1000
	Drumstick		1000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Bio Products				
Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			10000
2	Earthworms			50
3	Compost			10000
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
April 2023	Quarterly	500

Details of Electronic Media to be Produced

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

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

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

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

Field activities

Name of Villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Wayal	Manawar	12
2	Temariyapura	Manawar	7
3	Bhagiyapur	Manawar	14
4	Ahirwas	Umarban	36
5	Kwali	Umarban	15
6	Brahmanpuri	Manawar	14
7	Bheempura	Kukshi	55
8	Raipuriya	Kukshi	55
9	Badada	Umarban	20
10	Gulati	Manawar	5

1.

2.

3. No. of farm families selected per village :

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

3.11 Activities of Soil and Water Testing Laboratory

Year of establishment: ...Nil.....

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture Department	
ATMA	
Horticulture Department	
Veterinary Department	
Development Support Centre (NGO)	
Child line	
Cooperative Society	

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: 1200 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	Soybean JS - 335		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean JS - 2034		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean JS - 2069		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean JS -2094		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean JS - 2098		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean JS- 9560		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean RVS - 18		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean RVS 2001-4		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean Raj Soya-24		Plot Size : 4.5 x 6 mtr
Soybean	Kharif	Soybean NRC-37		Plot Size : 4.5 x 6 mtr
Maize	Kharif	Maize DMH 8255 Gold		Plot Size : 4.5 x 6 mtr
Maize	Kharif	Maize DMH 8255 Gold		Plot Size : 4.5 x 6 mtr
Maize	Kharif	Maize MM 9375		Plot Size : 4.5 x 6 mtr
Maize	Kharif	Maize Navayuga jet		Plot Size : 4.5 x 6 mtr
Maize	Kharif	Maize Super 82		Plot Size : 4.5 x 6 mtr
Maize	Kharif	Maize Hitech 5402		Plot Size : 4.5 x 6 mtr
Maize	Kharif	Maize NK 6240		Plot Size : 4.5 x 6 mtr
Jwar	Kharif	Jwar RVS 2357		Plot Size : 4.5 x 6 mtr
Jwar	Kharif	Jwar Bundela		Plot Size : 4.5 x 6 mtr
Jwar	Kharif	Jwar JS 1041		Plot Size : 4.5 x 6 mtr
Jwar	Kharif	Jwar RVS 1862		Plot Size : 4.5 x 6 mtr
Jwar	Kharif	Jwar JS 438		Plot Size : 4.5 x 6 mtr
Jwar	Kharif	Jwar JS 1022		Plot Size : 4.5 x 6 mtr
Jwar	Kharif	Jwar CSV 39		Plot Size : 4.5 x 6 mtr
Urd	Kharif	Urd Sekhar-2		Plot Size : 4.5 x 6 mtr
Urd	Kharif	Urd Pu-31		Plot Size : 4.5 x 6 mtr
Urd	Kharif	Urd T-9		Plot Size : 4.5 x 6 mtr
Urd	Kharif	Urd Pratap Urid-1		Plot Size : 4.5 x 6 mtr
Urd	Kharif	Urd Local		Plot Size : 4.5 x 6 mtr
Moong	Kharif	Moong NVL -1		Plot Size : 4.5 x 6 mtr
Moong	Kharif	Moong Anand Gold		Plot Size : 4.5 x 6 mtr
Moong	Kharif	Moong IPM 410-03		Plot Size : 4.5 x 6 mtr
Moong	Kharif	Moong Anand Gold		Plot Size : 4.5 x 6 mtr
Pigeonpea	Kharif	Pigeonpea Navapur		Plot Size : 4.5 x 6 mtr
Pigeonpea	Kharif	Pigeonpea PUSA 992		Plot Size : 4.5 x 6 mtr

Pigeonpea	Kharif	Pigeonpea NTL 30		Plot Size : 4.5 x 6 mtr
Pigeonpea	Kharif	Pigeonpea Ankur Charu		Plot Size : 4.5 x 6 mtr
Pigeonpea	Kharif	Pigeonpea Navapur		Plot Size : 4.5 x 6 mtr
Pigeonpea	Kharif	Pigeonpea Navapur		Plot Size : 4.5 x 6 mtr
Pigeonpea	Kharif	Pigeonpea Navapur		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1544		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1605		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1634		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1636		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1650		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1655		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1633		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1634		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 1634		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 8737		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 8759		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 2823 pusa prabhat		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 8826		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 8830		Plot Size : 4.5 x 6 mtr
Wheat	Rabi	Wheat HI 4728		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM RVG 111		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM KAK-2		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM DOLLAR		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM SUBHRA		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM JKG-1		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM RVG 101		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM VIRAT		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM RVG 202		Plot Size : 4.5 x 6 mtr
GRAM	Rabi	GRAM RVG 203		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE SUPER 9090		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE HYTECH 5402		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE LIMAGRAIN 92		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE SHIKHAR 9459		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE ADVANTA 757		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE ADVANTA759		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE DEKALB 9081		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE DM 9355		Plot Size : 4.5 x 6 mtr
MAIZE	Rabi	MAIZE DM 9355		Plot Size : 4.5 x 6 mtr
MUSTARD	Rabi	MUSTARD RVM-1		Plot Size : 4.5 x 6 mtr

MUSTARD	Rabi	MUSTARD NRC HB 101		Plot Size : 4.5 x 6 mtr
MUSTARD	Rabi	MUSTARD I-131		Plot Size : 4.5 x 6 mtr
MUSTARD	Rabi	MUSTARD RVM-2		Plot Size : 4.5 x 6 mtr
MUSTARD	Rabi	MUSTARD RH 406		Plot Size : 4.5 x 6 mtr

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermi compost Unit	HDPE Vermibeds	50	100 q
Natural Farming Unit	Jeevamrut, Beejamrutha, Neemastra,Agniastra, Brahmastra panch patti Kada	15	100 L
Dairy Unit	-	9	1 Cow

Year of sanction: 1995

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Akhilesh Shrivastav	9754430855	7067658583	kvkguna@rediffmail.com

[illegible]

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

S. No.	Item	Area (ha)
1	Under Buildings	1.4164
2	Under Demonstration Units	0.35
3	Under Crops	16.187
4	Orchard/Agro-forestry	0.60
5	Others (specify)	1.012
Total		20 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	1998	580.8	-	-	-	-
2.	Farmers Hostel	ICAR	1998	413.74				
3.	Staff Quarters (6)	ICAR	2007	2170.56				
4.	Fencing	-	-	-	-	-	-	-
5	Threshing floor	RVSKVV	2010	-				
6	Implement Shed	ICAR	2018	-	-	-	--	-
7	Threshing floor	RVSKVV	2011					
8	Poly House	-	-	-	-	-	-	-
9	Net House	ICAR	2017	-		-	-	-
10	Azola Unit	ICAR	2019	-		-	-	-
11	Demonstration Units - Dairy Unit	ICAR	2019	-		-	-	-
12	Demonstration Units-Vermicompost	ICAR	2013	-		-	-	-
13	Any Other(pl.specify) - Godown	RVSKVV	2010	295.47		-	-	-
14	RWH System	ICAR	2012	120	-	-	-	-
15	Godown	RVSKVV	2007	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	-	-	-	-
Motor Cycle 2	2010	45162	-	Theft 2.1.2012
Bolero(Jeep)	2020	739908.80	18966	Good
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2007	85412	Working but too old with low quality presentation
Xerox Machine	2008	-	Unservicable
Generator	-	-	-
Video Camera/Digital Camera	2016	19990	Working
Computer, Laser Printer (HP Laser 1505n)	2008	-	Not Working
Lenovo All in one Computer	2022	-	Working
Laser Printer (HP Laser 1M 1005 MFP)	2020	-	Working
UPS 600 VA	-	-	-
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	-	-	-
Inverter Battery (2)	-	-	-

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

Sl. No.	Tentative Date
1	May 2023
2	Oct 2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1 Chachoda, Raghogarh	Soybean, Greengram, Blackgram, Coriander, Wheat, Chickpea, Mustard
2	AES – 2 Guna, Bamori	Soybean, Greengram, Paddy, Wheat, Chickpea, Mustard
3	AES – 3 Aron	Soybean, Greengram, Blackgram, Paddy, Coriander, Wheat, Chickpea, Mustard

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

S. No.	Agro-climatic Zone	Characteristics
1	Gird Zone	Guna is located at 24.65°N 77.32°E. It has an average elevation of 350 to 474 metres (1555 ft) . Average Rainfall : 1090 mm Temperature : Max - 46.0 °C Min- 3.0 °C Physiographic : Rivers (Sindh and Parwati)

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (Chachoda, Raghogarh)

Strength	Weakness	Opportunities	Threats
- Availability of Livestock - Good Soil, well drained flat land - Suitable for different crops	- Indiscriminate use of Pesticide - Non availability of round the year green fodder - Adopt flood irrigation method - No drought tolerant varieties available	- Suitable for Horticultural and spice Crops - Crop production may be enhanced by using of High yielding heat tolerant varieties - Switch from mono culture to diversified farming - Stall feeding of animals - Crop Diversification - Use of water saving irrigation technique	- Heavy Pest infestation - Climatic vulnerability for frost and Heat wave - Low water holding capacity of soil - Weather

AES-2 (Guna, Bamori)

Strength	Weakness	Opportunities	Threats
- Availability of Livestock - Good Soil, well drained flat land - Suitable for different crops	- Non availability of round the year green fodder - Indiscriminate use of Pesticide - Adopt flood irrigation method - No drought tolerant varieties available	- Stall feeding of animals - Crop Diversification - Suitable for Horticultural Crops - Crop production may be enhanced by using of High yielding heat tolerant varieties - Switch from mono culture to diversified farming - Use of water saving irrigation technique	- Heavy Pest infestation - Climatic vulnerability for frost and Heat wave - Low water holding capacity of soil - Weather

AES-3 (Aron)

Strength	Weakness	Opportunities	Threats
- Availability of Livestock - Good Soil, well drained flat land - Suitable for different crops	- Heavy gravely laterite soil - Non availability of round the year green fodder - Indiscriminate use of Pesticide - Adopt flood irrigation method - No drought tolerant varieties available	- Suitable for Horticultural Crops - Crop production may be enhanced by using of High yielding heat tolerant varieties - Switch from mono culture to diversified farming - Stall feeding of animals - Crop Diversification - Use of water saving irrigation	- Heavy Pest infestation - Climatic vulnerability for frost and Heat wave - Low water holding capacity of soil - Weather

		technique	

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	630.8
Forest	101.4
Waste Land	65.8
Other than cultivated area	34.4
Cultivable waste and alkaline land	76.5
Pastures	29.8
Bushes	0.0
Current Fallow	4.9
Other Fallow	7.9
Agricultural Land	314-5
Area Sown	314.5
Kharif	212.4
Rabi	189.0
Zaid	-
Cropping Intensity	136%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	18]945
2	Well	67]744
3	Tube well	85]265
4	Ponds	1]349
5	Others	4]742

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Shallow Soils	57.79%	638-20
2	Medium deep Soils	4.92 %	54-20
3	Deep Soil	37.29%	411-40

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	189-95	782-59	4120
2	Barley	0-01	0-03	3600
3	Chickpea	28-87	42-73	1480
4	Greenpea	0-25	0-34	1378
5	Lentil	3-96	4-99	1260
6	Mustard	88-54	119-53	1350
7	Linseed	0-02	0-02	960
8	Sugar cane	311-59	950-23	3050
9	Paddy	4-28	14-96	3495

10	Jwar	1-86	2-27	1220
11	Maize	42-33	44-07	1041
12	Pigeonpea	0-03	0-03	873
13	Greengram	0-54	0-31	568
14	Blackgram	36-18	15-37	480
15	Groundnut	0-03	0-04	1453
16	Soybean	253-40	74-50	294

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	30.9	24	9
Feb, 22	0.0	28	12
Mar, 22	2.7	34	17
Apr, 22	0	39	22
May, 22	0	41	26
Jun, 22	98.6	38	26
July, 2022	631.7	32	24
Aug., 2022	661.9	30	23
Sept., 2022	220.2	32	22
Oct. 2022	8	33	19
Nov. 2022	0	20	14
Dec. 2022	0	26	10

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo	174.1(000nos)	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	1.3 (000nos)	 MT wool	 kg
Goats	118.5 (000nos)	 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Aron	Aron	Arashkhed, Husainpur, Kherkhedi, Tunk paroriyam Khamkheda	Soybean, Blackgram, Gram, Wheat	Unavailability of Quality Seed, Unawareness, Market Link	VE, INM, IPM, IDM, IWM
2	Guna	Guna	Sarkho, Chhipone, Bajrangarh			VE, INM, IPM, IDM, IWM
3	Bamori	Bamori				VE, INM, IPM, IDM, IWM
4	Beenaganj	Chachoda				VE, INM, IPM, IDM, IWM
5	Raghogarh	Raghogarh	Chailpura, Bhulay			VE, INM, IPM, IDM, IWM
6	Kumbhraj	Chachoda				VE, INM, IPM, IDM, IWM

Priority / Thrust areas

S. No.	Particulars
1.	Crop production – Production technology of field crop, NRM, Varietal replacement
2.	Soil Science – INM in field crops, high emphasis on use of biomass, sustainable agriculture
3.	Horticulture – Olericulture, Floriculture, Pomology
4.	Plant protection – IPM , IWM and IDM in field and horticultural crops
5.	Livestock production & management – Breed improvement, Fodder production, Vaccination, AI
6.	Women in Agriculture – Drudgery reduction, health and hygiene, malnutrition.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
12	96	12	100

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
56	1680	343	69810

Seed Production (Qtl.)	Planting material (Nos.)
210	43000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterpr ise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Trainin g if any	Title of trainin g for extensi on person nel if any	Extensi on on activiti es	Suppl y of seeds, plantin g materi als etc.
1	VE	Soybe an	Low yield due to old variety	Assessment of medium duration Soybean Variety RVS 24	Demonstration of Medium duration variety of Soybean – JS 2098	Crop Product ion	Crop Produc tion	Field day, Diagno stic Visit	seeds
2	VE	Soybea n	Low yield due to old variety	Assessment of New variety of Soybean RVS 18	Demonstration of High Yielding short duration variety of Green gram Sikha	Crop Product ion	Crop Produc tion	Field day, Diagno stic Visit	seeds
3	VE	Wheat	Unavailab ility of irrigation water	Assessment of limited irrigation and Heat tolerant variety of Wheat Raj 4238	Demonstration of new chickpea variety RVG 204	Crop Product ion	Crop Produc tion	Field day, Diagno stic Visit	seeds
4	VE	Wheat	Low yield due to old variety	-	Demonstration of HYV of Wheat DBW 187	Crop Product ion	Crop Produc tion	Field day, Diagno stic Visit	seeds
5	VE	Linseed	Low yield due to old variety	-	Demonstration of HYV of Linseed JLS 27	Crop Product ion	Crop Produc tion	Field day, Diagno stic Visit	seeds
6	IPM	Wheat	low yield due to Insect Pest infestation	Assessment of Imidachloprid for management of root aphid of Wheat	Demonstration of Management of Stem fly in Soybean – Novaluron 5.25% + Imamectin benzoate 0.9% SC 625 ml/ha	Crop Product ion and IPM	Crop Produc tion and IPM	Field day, Diagno stic Visit	Pestic ide
7	IWM	Paddy	Heavy infestation of weed in direct seeded rice	Assessment of bispyriback sodium for weed management in direct seeded Paddy	Demonstration of Diclosulam for weed management in Soybean – Diclosulam @ 26g ai/ha	Crop Product ion and IWM	Crop Produc tion and IWM	Field day, Diagno stic Visit	Herbic ide
8	IWM	Chickp ea	Heavy weed infestation	Assessment of Topramezone as POE for weed management in Chickpea	-	Crop Product ion and IWM	Crop Produc tion and IWM	Field day, Diagno stic Visit	Herbic ide
9	IWM	nigela	Heavy weed infestation	Assessment of Oxadiargyle for weed management in nigela (Kalonji)	-	Crop Product ion and IWM	Crop Produc tion and IWM	Field day, Diagno stic Visit	Herbic ide
10	Crop Diversifica tion	Paddy	Low yield of Soybean Crop	Assessment of short duration variety of Paddy suitable for direct seeding	-	Crop Product ion	Crop Produc tion	Field day, Diagno stic Visit	Seed

11	Entrepreneurships	Bio-waste management	Traditional heap method Practices and no information about improved practices	Assessment of Bio-waste management by waste decomposer	-	-	-	Field day, Diagnostic Visit	waste decomposer

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
VE	02	02	-	-	-	-	-	-	-	04
IWM	01	-	01	-	-	-	-	-	01	03
IPM	01	-	-	-	-	-	-	-	-	01
TOTAL	04	02	01	-	-	-	--	-	01	08

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

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

Details of On Farm Trial (OFT)

OFT-1

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of medium duration Soybean Variety RVS 24
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old variety
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JS 95-60
T2 –Recommended Practice-	JS 2034
T3- Recommended Practice-	RVS24
Date of sowing:	June 2023
Date of harvesting:	Oct 2023
Source of technology:	RVSKVV 2016
Characteristics of technology:	Medium duration and HYV
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of bispyriback sodium for weed management in direct seeded Paddy
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Heavy infestation of weed in direct seeded rice
Thematic area:	IWM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	Chlorimuron ethyle + Metsulfuron Methyle 20 wp 4g ai (20g/ha)
T3- Recommended Practice-	bispyriback sodium 10 SC 20 gm ai (200 g/ha)
Date of sowing:	June 2023
Date of harvesting:	Oct 2023
Source of technology:	DWR Jabalpur
Characteristics of technology:	Eco Friendly
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of short duration variety of Paddy suitable for direct seeding
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean Crop
Thematic area:	Crop Diversification
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JS 95-60
T2 –Recommended Practice-	Pusa Basmati 1692
T3- Recommended Practice-	Pusa Basmati 1509
Date of sowing:	June 2023
Date of harvesting:	Oct 2023
Source of technology:	IARI
Characteristics of technology:	short duration variety

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

OFT-4

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of New variety of Soybean RVS 18
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old variety
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JS 95-60
T2 –Recommended Practice-	JS 2034
T3- Recommended Practice-	RVS 18
Date of sowing:	June 2023
Date of harvesting:	Oct 2023
Source of technology:	RVSKVV 2018
Characteristics of technology:	HYV
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of Topramezone as POE for for weed management in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Heavy weed infestation
Thematic area:	IWM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No Use of herbicide
T2 –Recommended Practice-	Pendimethyline 1.0 l a.i. as PE
T3- Recommended Practice-	Topramezone @ 26.0 g/ha as POE
Date of sowing:	Oct 2023
Date of harvesting:	March 2024
Source of technology:	IGKVV,Raipur

Characteristics of technology:	Eco Friendly
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of limited irrigation and Heat tolerant variety of Wheat Raj 4238
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Unavailability of irrigation water
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Lok 1
T2 –Recommended Practice-	Raj 4037
T3- Recommended Practice-	Raj 4238
Date of sowing:	Oct 2023
Date of harvesting:	March 2024
Source of technology:	RVSKVV
Characteristics of technology:	limited irrigation and Heat tolerant variety
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of Imidachloprid for management of root aphid of Wheat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	low yield due to Insect Pest infestation
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-	No Management practice adopted
T2 –Recommended Practice-	Thiomethoxzom 250g/ha
T3- Recommended Practice-	Imidachloprid 250 ml/ha
Date of sowing:	Oct 2023

Date of harvesting:	March 2024
Source of technology:	IARI
Characteristics of technology:	Eco Fiendly
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-8

Name of Discipline (Agronomy)	
Title of on-farm trial:	Assessment of Oxadiargyle for weed management in nigela (Kalonji)
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Heavy weed infestation
Thematic area:	IWM
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 weed management
T2 –Recommended Practice-	Hand Weeding
T3- Recommended Practice-	Oxadiargyle @ 75g /ha
Date of sowing:	Oct 2023
Date of harvesting:	March 2024
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	-
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -9

1	Enterprise	Organic Farming
2	Title of on-farm trial	Assessment of Bio- waste management by waste decomposer
3	Problem diagnosed	Traditional heap method Practices and no information about improved practices
4	Farming situation	Rainfed
5	Production system and thematic area	Entrepreneurship
6	Farmers' practices	Use of Local Practice-Heap Composting
7	Details of technologies selected for assessment/refinement Treatments	: T₁ : Jawahar Bio- waste decomposer use 10ml/litter : T₂ : one bottle waste decomposer pour in plastic drum containing 200 liter water with 2 kg Jaggery use after one week.
8	Source of technology	Jawaharlal Nehru Agricultural University,Jabalpur National center for organic Farming , Ghaziabad
9	No. of animals	01
10	No. of farmers	08

11	Critical input	waste decomposer bottle
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	Organic carbon, Time decomposing, B:C ratio

Detailed Information about OFT:

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

Information about Extension OFT:

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

-
Results / findings

Performance indicators/ parameters	Unit/ details
-	-

Information about Home Science OFT:

OFT 1:

Title of on-farm trial:	Assessment of Sweet Corn Variety Sugar-75
Year/Season:	Kharif 2023
Problem diagnosis:	Low income due to desi maize (Area 14550 ha. Area affected 14500 ha, Productivity 1550 kg/ha)
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income Generation
No of trials:	08
No. of farmers/farm women involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	JM 12
T2 –Recommended Practice-	HQPM 1 and Sweet Corn Sugar 75
Source of technology:	JNKVV
Characteristics of technology:	Income Generation
Name of Crop/Enterprises:	Sweet Corn
Farming situation:	Rainfed
Date of sowing:	15 June 2023
Date of harvesting:	30 Sep 2023
Recommendations for Farmers	High yielding and Higher Remuneration
Recommendations for Deptt. Personnel	High yielding and Higher Remuneration
Feedback	-

OFT 2:

Title of on-farm trial:	Assessment of performance on efficiency of farm woman during harvesting of okra by Bhindi plucker.
Year/Season:	Kharif 2023
Problem diagnosis:	Bhindi picking is mostly done by woman ,while picking they injure their hand Due to injury they suffer during cooking, washing besides exposure to pesticide and allergy.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Drudgery Reduction
No of trials:	08
No. of farmers/farm women involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of improved implement for plucking of root stock of Bhindi after harvest of crop
T2 –Recommended Practice-	Drudgery reduction through improved farm implement Bhindi plucker
Source of technology:	CIAE Bhopal
Characteristics of technology:	Easy to handle
Name of Crop/Enterprises:	Bhindi plucker
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	Easy to handle and Time Saving
Recommendations for Deptt. Personnel	Easy to handle and Time Saving
Feedback	-

OFT 3:

Title of on-farm trial:	Assessment of Improved Nursery Management in Tomato
Year/Season:	RAbi 2023-24
Problem diagnosis:	Low quality seedling due to improper nursery management
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nursery Management/IFS
No of trials:	08
No. of farmers/farm women involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Flatbed Nursery
T2 –Recommended Practice-	Seedling tray with COCO pit
Source of technology:	JNKVV
Characteristics of technology:	Less Mortality %
Name of Crop/Enterprises:	Nursery Management/IFS
Farming situation:	-

Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	Less Mortality %
Recommendations for Deptt. Personnel	Less Mortality %
Feedback	-

OFT 4:

Title of on-farm trial:	Assessment of Moringa Powder for Nutritional Security
Year/Season:	RAbi 2023-24
Problem diagnosis:	Lack of awareness
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	08
No. of farmers/farm women involved	08
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	-
T2 –Recommended Practice-	Value Addition – Moringa
Source of technology:	JNKVV
Characteristics of technology:	Nutri Rich product
Name of Crop/Enterprises:	Moringa/Value addition
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	Technology found suitable for Nutritional Security
Recommendations for Deptt. Personnel	-
Feedback	Adopted by farmers

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	IWM	Demonstration of Diclosulam for weed management in Soybean – Diclosulam @ 26g ai/ha	Herbicide	Kharif 2023	3.2	08	No. of weeds/sqm, No. of pods/plant, yield q/ha
2	Soybean	IPM	Demonstration of Management of Stem fly in Soybean – Novaluron 5.25% + Imamectin benzoate 0.9% SC 625 ml/ha	Insecticide	Kharif 2023	3.2	08	No. of pods/plant, yield q/ha
3	Soybean	VE	Demonstration of Medium duration variety of Soybean – JS 2098	Seed	Kharif 2023	3.2	08	No. of Branches/plant, No. of pods/plant, yield q/ha,
4	Green gram	VE	Demonstration of High Yielding short duration variety of Green gram Sikha	Seed	Kharif 2023	3.2	08	No. of Branches/plant, No. of pods/plant, yield q/ha,
5	African Marigold	Income Generation	Demonstration of High yielding Marigold Variety African Marigold FP : Local Genda RP : African Marigold	Seed	Kharif 2023	1.0	10	Yield q/ha
6	Different vegetable	Nutritional Security	Demonstration of Nutritional Garden for Nutritional security of farm women FP : Backyard garden RP : Nutritional garden on seasonal vegetables & fruits	Vegetable seed Kit	Kharif 2023	1.0	10	Per capita Consumption gm/ day, Increase in Weight (Kg)
7	Kodo Millet	Crop Diversification	Demonstration of Kodo Millet Variety JK 137	Seed	Kharif 2023	3.2	08	Yield kg/ha
8	chickpea	VE	Demonstration of new chickpea variety RVG 204	Seed	Rabi 2023-24	3.2	08	No. of Branches/plant, No. of pods/plant, yield q/ha
9	Coriander	IDM	Demonstration of Azoxystobin + Difenxonoazole for stemgall management in Coriander – Azoxystobin + Difenxonoazole 500ml /ha	Pesticide	Rabi 2023-24	3.2	08	No. of Branches/plant, No. of pods/plant, yield q/ha
10	Wheat	VE	Demonstration of HYV of Wheat DBW 187	Seed	Rabi 2023-24	3.2	08	No. of Tillers/plant, No. of grains/earhead, yield q/ha,

11	Linseed	VE	Demonstration of HYV of Linseed JLS 27	Seed	Rabi 2023-24	3.2	08	No. of capsule/plant, yield q/ha,
12	Vermicompost production	Organic farming & Income Generation	Demonstration of Vermicompost production FP : Low compost production (10-15 q/pit/year) RP : Vermicompost production (20-25 q/pit/year)	Vermi Beg	Rabi 2023-24	10 unit	10	Production per unit (Q/No
13	Nutritional Garden	Nutritional Security	Demonstration of Nutritional Garden for Nutritional security of farm women FP : Backyard garden RP : Nutritional garden on seasonal vegetables & fruits	Vegetable Seed Kit	Rabi 2023-24	1.0	10	Per capita Consumption gm/ day, Increase in Weight (Kg)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	Sep and February	240
2	Farmers Training	24	-	720
3	Media coverage	08	-	-
4	Training for extension functionaries	03	-	90

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean		Improved Production Technology of Soybean	Seed	Kharif 2023	20	50	No. of Branches/plant, No. of pods/plant, yield q/ha
2	Blackgram		Improved Production Technology of Blackgram	Seed	Kharif 2023	10	25	No. of Branches/plant, No. of pods/plant, yield q/ha
3	Mustard		Improved Production Technology of Mustard	Seed	Rabi 2023+24	20	50	No. of Branches/plant, No. of pods/plant, yield q/ha
4	Chickpea		Improved Production Technology of Chickpea	Seed	Rabi 2023+24	10	25	No. of Branches/plant, No. of pods/plant, 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	Sep and February	
2	Farmers Training	08	-	240
3	Media coverage	04	-	-
4	Training for extension functionaries	04	-	120

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	10	01	-	-	200	-	-	100	300
Resource Conservation Technologies	02	01	-	-	40	-	-	20	60
Integrated Farming	04	01	-	-	80	-	-	40	120
Water management	02	01	-	-	40	-	-	20	60
Seed production	02	01	-	-	40	-	-	20	60
Integrated Crop Management	04	01	-	-	80	-	-	40	120
Total	24	01	-	-	480	-	-	240	720
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	02	01	-	-	40	-	-	20	60
Protective cultivation (Green Houses, Shade Net etc.)	02	01	-	-	40	-	-	20	60
Total	04	01	-	-	80	-	-	40	120

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
b) Fruits									
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
f) Spices									
Production and Management technology	01	01	-	-	20	-	-	10	30
Total	01	01	-	-	20	-	-	10	30
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	05	01	-	-	100	-	-	50	150
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	-	-	-	-	-	-	-	-	
Disease Management	-	-	-	-	-	-	-	-	
Feed management	-	-	-	-	-	-	-	-	
Production of quality animal products	-	-	-	-	-	-	-	-	
Total	-	-	-	-	-	-	-	-	
V Home Science/Women empowerment									

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
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	01	02	-	-	-	20	-	-	-	10	30
Bee-keeping	-	-	-	-	-	-	-	-	-	-	-
Seed production	02	02	-	-	-	40	-	-	-	20	60
Planting material production	-	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	02	02	-	-	-	40	-	-	-	20	60
Small Scale Processing	01	02	-	-	-	20	-	-	-	10	30
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-	-
TOTAL	06	02	-	-	-	120	-	-	-	60	180
(C) Extension Personnel											
Weed Management in major kharif crops	01	01				20	-	-	-	5	25
Integrated Weed Management	01	01				20	-	-	-	5	25
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	-
Weed Management in major Rabi crops	01	01				20	-	-	-	5	25
Capacity building for ICT application	01	01	-	-	--	20	-	-	-	5	25
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-
Importance of Organic farming and their	01	01	-	-	--	20	-	-	-	5	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
certification											
Gender mainstreaming through SHGs	01	02	-	-	--	20	-	-	-	5	25
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
TOTAL	08		-	-	-	160	-	-	-	40	200

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Natural farming input management	01	01	20	-	20	10	-	10	30
Soil Health improvement through natural farming	01	01	20	-	20	10	-	10	30
Irrigation and Water Management in Rabi Crops	01	01	20	-	20	10	-	10	30
Seed Production Technology and pest management in Wheat	01	01	20	-	20	10	-	10	30
Disease and Pest Management in Rabi Crops	01	01	20	-	20	10	-	10	30
Summer moong production technology	01	01	20	-	20	10	-	10	30
Post Harvest Technology for Rabi Crops	01	01	20	-	20	10	-	10	30
Post Harvest Management of Rabi Crops	01	01	20	-	20	10	-	10	30
Importance of soil Testing in sustainable crop production	01	01	20	-	20	10	-	10	30
Package and Practice of Summer Moong	01	01	20	-	20	10	-	10	30
Small Millets production Technology	01	01	20	-	20	10	-	10	30
Pest management in Summer Moong	01	01	20	-	20	10	-	10	30
Irrigation and	01	01	20	-	20	10	-	10	30

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	02	01	0	40	40	0	20	20	60
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	01	01	0	20	20	0	10	10	30
Gender mainstreaming through SHGs	01	01	0	20	20	0	10	10	30
Storage loss minimization techniques	01	01	0	20	20	0	10	10	30

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										
11.01.2023	F & FW	Irrigation and Water Management in Rabi Crop	01	-	-	-	-	-	-	30
22.02.2023	F & FW	Natural farming for sustainable crop production	01	-	-	-	-	-	-	30
28.02.2023	F & FW	Disease and Pest Management in Rabi Crop	01	-	-	-	-	-	-	30
13.03.2023	F & FW	Insect pest management in summer moong	01	-	-	-	-	-	-	30
21.03.2023	F & FW	Post Harvest Management of Rabi Crops	01	-	-	-	-	-	-	30
12.04.2023	F & FW	Improved cultivation of Summer Moong	01	-	-	-	-	-	-	30
24.04.2023	F & FW	Soil Sampling technique	01	-	-	-	-	-	-	30
02.05.2023	F & FW	Small Millets input management and production Technology	01	-	-	-	-	-	-	30
16.05.2023	F& FW	Irrigation and Water Management in Summer Moong	01	-	-	-	-	-	-	30
7.06.2023	F & FW	Disease and Pest Management in Summer Moong	01	-	-	-	-	-	-	30
12.06.2023	F & FW	Production technology for Soybean crop	01	-	-	-	-	-	-	30
04.07.2023	F & FW	Weed Management in Soybean Crop	01	-	-	-	-	-	-	30
5.07.2023	F & FW	Complete	01	-	-	-	-	-	-	30

[illegible]

Home Science										
04.01.2023	FW	Drudgery reduction Technology Using Bhindi plucker in OKRa	01	-	-	-	-	-	-	30
08.02.2023	FW	Technologies for doubling Farmers income	01	-	-	-	-	-	-	30
11.03.2023	FW	Drudgery reduction in Harvesting	01	-	-	-	-	-	-	30
25.04.2023	FW	Storage technique for Safe storage – pro super bag	01	-	-	-	-	-	-	30
12.06.2023	FW	Importance and Layout of Kitchen Garden	01	-	-	-	-	-	-	30
18.07.2023	FW	Dietary plan for Child and Lactating women	01	-	-	-	-	-	-	30
16.10.2023	FW	Awareness about Drumstick parts for dietary plan in daily life meals	01	-	-	-	-	-	-	30
30.11.2023	FW	Value addition in Soybean- Soya Milk, Soya Badi, Soya paneer	01	-	-	-	-	-	-	30
27.12.2023	FW	Gender mainstreaming through SHGs	01	-	-	-	-	-	-	30
	Total		9	-	-	-	-	-	-	270
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2. Off Campus

Month/	Clientele	Title of the	Duration	Number of participants					Grand

Tentative Date		training programme	in days	Others			Number of SC/ST			Total
				Male	Female	Total	Male	Female	Total	
Crop Production										
10.01.2023	F & FW	Natural farming input management	01	-	-	-	-	-	-	30
14.01.2023	F & FW	Soil Health improvement through natural farming	01	-	-	-	-	-	-	30
19.01.2023	F & FW	Irrigation and Water Management in Rabi Crops	01	-	-	-	-	-	-	30
11.02.2023	F & FW	Seed Production Technology and pest management in Wheat	01	-	-	-	-	-	-	30
13.02.2023	f & FW	Disease and Pest Management in Rabi Crops	01	-	-	-	-	-	-	30
23.02.2023	F & FW	Summer moong production technology	01	-	-	-	-	-	-	30
15.03.2023	F & FW	Post Harvest Technology for Rabi Crops	01	-	-	-	-	-	-	30
22.03.2023	F & FW	Post Harvest Management of Rabi Crops	01	-	-	-	-	-	-	30
28.03.2023	F & FW	Importance of soil Testing in sustainable crop production	01	-	-	-	-	-	-	30
04.04.2023	F & FW	Package and Practice of Summer Moong	01	-	-	-	-	-	-	30
18.04.2023	F & FW	Small Millets production Technology	01	-	-	-	-	-	-	30
04.05.2023	F & FW	Pest management in Summer Moong	01	-	-	-	-	-	-	30
11.05.2023	F & FW	Irrigation and Water Management in Summer Moong	01	-	-	-	-	-	-	30
05.05.2023	F & FW	Disease and	01	-	-	-	-	-	-	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Pest Management in Summer Moong								
15.06.2023	F & FW	Input management and production technology for Soybean crop	01	-	-	-	-	-	-	30
16.06.2023	F & FW	Improved Production Technology of Kharif Crops	01	-	-	-	-	-	-	30
05.07.2023	F & FW	Pest Management in Soybean Crop	01	-	-	-	-	-	-	30
25.07.2023	F & FW	Importance of Drainage in Kharif Crops	01	-	-	-	-	-	-	30
08.08.2023	F & FW	Insect management in Maize	01	-	-	-	-	-	-	30
10.08.2023	F & FW	Weed Management in Kharif Crops	01	-	-	-	-	-	-	30
12.09.2023	F & FW	Disease nad Pest management in Kharif Crops	01	-	-	-	-	-	-	30
13.10.2023	F & FW	Production Technology for Mustard Crop	01	-	-	-	-	-	-	30
17.10.2023	F & FW	Field preparation for Rabi Crops	01	-	-	-	-	-	-	30
06.11.2023	F & FW	Sowing Management for Rabi crops	01	-	-	-	-	-	-	30
09.11.2023	F & FW	Complete Package and PRactices of Wheat crop	01	-	-	-	-	-	-	30
29.11.2023	F & FW	Weed Management in Wheat	01	-	-	-	-	-	-	30
12.12.2023	F & FW	Irrigation scheduling in Wheat	01	-	-	-	-	-	-	30
15.12.2023	F & FW	Weed	01	-	-	-	-	-	-	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Management in Rabi Crops								
		Total	28							840
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
10.01.2023	F & FW	Household food security by kitchen gardening and nutrition gardening	01	-	20	20	-	10	10	30
12.01.2023	FW	Drudgery reduction Technology Using Bhindi plucker in Okra	01	-	20	20	-	10	10	30
14.02.2023	FW	Technologies for doubling Farmers income	01	-	20	20	-	10	10	30
16.03.2023	FW	Drudgery reduction in Harvesting	01	-	20	20	-	10	10	30
12.04.2023	FW	Storage technique for Safe storage – pro super bag	01	-	20	20	-	10	10	30
16.05.2022	FW	Farm Waste Mangemnet and Vermicompost Production using Vermi Beg	01	-	20	20	-	10	10	30
20.06.2023	FW	Importance and Layout of Kitchen Garden	01	-	20	20	-	10	10	30
26.07.2023	FW	Dietary plan for Child and Lactating women	01	-	20	20	-	10	10	30
17.08.2023	FW	Balance diet from locally available food stuff	01	-	20	20	-	10	10	30
20.09.2023	FW	Food Uses of Milletes	01	-	20	20	-	10	10	30
26.10.2023	FW	Awareness about Drumstick parts for dietary plan in daily life meals	01	-	20	20	-	10	10	30
22.11.2023	FW	Value addition	01	-	20	20	-	10	10	30

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

Livestock production

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	-	-	-	-	-	-	-	-	-	-	-	-	-
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	12	-	-	250	-	-	12	-	-	250
Kisan Mela	02	-	-	Mass	-	-	5	-	-	Mass
Kisan Ghosthi	05	-	-	100	-	-	5	-	-	100
Exhibition	02	-	-	Mass	-	-	5	-	-	Mass
Film Show	12	-	-	250	-	-	1	-	-	250
Method Demonstrations	02	-	-	50	-	-	2	-	-	50
Farmers Seminar	02	-	-	50	-	-	2	-	-	50
Workshop	02	-	-	200	-	-	5	-	-	200
Group meetings	08	-	-	200	-	-	2	-	-	200
Lectures delivered as resource persons	50	-	-	1500	-	-	5	-	-	1500
Newspaper coverage	14	-	-	Mass	-	-	-	-	-	Mass
Radio talks	10	-	-	Mass	-	-	-	-	-	Mass
TV talks	02	-	-	Mass	-	-	-	-	-	Mass
Popular articles	10	-	-	Mass	-	-	-	-	-	Mass
Extension Literature	10	-	-	Mass	-	-	-	-	-	Mass
Advisory Services	104	-	-	65000	-	-	5	-	-	65000
Scientific visit to farmers field	30	-	-	500	-	-	2	-	-	500
Farmers visit to KVK	12	-	-	300	-	-	2	-	-	300
Diagnostic visits	30	-	-	600	-	-	2	-	-	600
Exposure visits	02	-	-	60	-	-	2	-	-	60
Ex-trainees Sammelan	02	-	-	50	-	-	2	-	-	50
Soil health Camp	02	-	-	50	-	-	2	-	-	50
Animal Health Camp	02	-	-	50	-	-	2	-	-	50
Agri mobile clinic	01	-	-	50	-	-	2	-	-	50
Soil test campaigns	02	-	-	50	-	-	2	-	-	50
Farm Science Club Conveners meet	01	-	-	50	-	-	2	-	-	50
Self Help Group Conveners meetings	02	-	-	50	-	-	5	-	-	50
Mahila Mandals Conveners meetings	05	-	-	200	-	-	5	-	-	200
Celebration of important days (specify)	05	-	-	200	-	-	5	-	-	200
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	343	-	-		-	-		-	-	

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
	-	-	-
	-	-	-
OILSEEDS	Soybean	JS 2098	95.0
	Mustard	RVM 1	5.0
PULSES	Gram	RVS 204	105.0
	-	-	-
VEGETABLES			
	-	-	-
	-	-	-
FLOWER CROPS	-	-	-
	-	-	-
OTHERS (Specify)	-	-	-
	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Guawa	AlahbadiSafeda, L 49, G 27, Lalit	1000
	Lemon	Kagji	5000
	Jackfruit	-	2000
	Papaya	Taivan	10000
SPICES			
-	-	-	-
-	-	-	-
VEGETABLES			
	Chilli	Hybrid	5000
	Brinjal	Hybrid	2000
	Drumstick	PKM 1, 2	4000
	Tomato	Hybrid	2000
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	Eicina Fatida		5000
2	NADEP	-	-	-
3				
BIO PESTICIDES				
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	Goat	Sirohi	06	-
POULTRY	Kadaknath	Kadaknath	40	-
FISHERIES	-	-	-	-
Others (Specify)				

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

Date of start	Periodicity	Number of copies to be published
Sindh Krishi samachar	Jan - March 2023	100 + Digital Document
Sindh Krishi samachar	April - June 2023	100 + Digital Document
Sindh Krishi samachar	July - Sep 2023	100 + Digital Document
Sindh Krishi samachar	Oct - Dec 2023	100 + Digital Document

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD	Method Demonstration - Vermicompost	01
2	DVD	Success Story - Crop Production	01
3	DVD	Success Story - Natural Farming	01
4	DVD	Success Story - Millets Production	01

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	ex trainees Meet
2	Rural Youth	ex trainees Meet
3	In-service personnel	line dept
4	methodology for identifying OFTs/FLDs	ex trainees Meet
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	Husainpur	Aron	25
2	Tunk Paroruya	Aron	28
3	Kherkhedi	Aron	20
4	Chainpura	Radhogarh	45
5	Bhulay	Radhogarh	60
6	Khamkheda	Aron	8
7	Sarkho	Guna	24
8	Kushwan	Aron	12

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: 2005

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	250	250	10	Convergence with NFL
Water Samples	-	-	-	-
Total	250	250	10	Convergence with NFL

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
Dept. of Farmer Welfare and Agriculture Development	Trainings and Extension Activity
Mahila Evam Bal Vikash Vibhag	Trainings and Extension Activity
Dept. of Horticulture	Trainings and Extension Activity
Dept of Vetenary	Extension Activity
National Seed Corporation	Seed Input
ICAR Organization	Knowledge Sharing
Agriculture Universities	Knowledge Sharing

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No : Yes

Name of Programme	Nature of linkage
Demonstration and Training	Resource Person

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: 576 Sq m (Kharif 2023) and 1710 sqm (Rabi 2023-24)

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif 2023	JS 20-34, JS 20-69, RVS 24, RVS 18, JS 20-29, JS 95-60, JS 20-94, JS 20-116, RVS 76, RVS 2001-4	Plot Size (4X3 m) each, No. variety-10	120
Blackgram	Kharif 2023	T9, JS 4, NUM 7, RBU 38, RBU 108, JU 86, PU 35, PU 3, LBG 202, Shekhar 2, BU 3, Azad 3	Plot Size (4X3 m) each, No. variety-12	144
Greengram	Kharif 2023	TM 37, K 851, JTM 3, PDM 139, Pusa 16, Hum 1, MI 751, JML 668	Plot Size (4X3 m) each, No. variety-8	96
Papaya	Kharif 2023	Kodo, Kutki, Ragi, China, Sawa, Fox tail	Plot Size (4X3 m) each, No. variety-3 variety each small millet	216
Wheat	Rabi 2023-24	HI 1605, 1418, 8777, 8713, 8756, 1544, 1531, 4472 HD 2932, RVG 4106, MP 120	Plot Size (6X5 m) each, No. variety-12	360
Gram	Rabi 2023-24	JAKI 9118, , JG 16, 130, JGK 23 RVG 202, 203, 204, 205	Plot Size (6X5 m) each, No. variety- 9	270
Mustard	Rabi 2023-24	RVM 2, Pusa Jagannath PM 25, 26, 28, RH 749	Plot Size (6X5 m) each, No. variety-6	180
Coriander	Rabi 2023-24	GCR 9, 8, 4, 2, 13, RCR 446, 436, 20 JGR 7, JD, DH 5, 246 Pant Haritima	Plot Size (6X5 m) each, No. variety-12	360
Methi	Rabi 2023-24	AFG 2, RMT 36, 357	Plot Size (6X5 m) each, No. variety- 03	90
Massor	Rabi 2023-24	JL 639, JL 3, RVL 137,	Plot Size (6X5 m) each, No.	270

		135,11-6,31, PL 406, 5. JLS1,	variety-9	
Alsi	Rabi 2023-24	JL17, SLS 73, 76, Kiran, JTL 23,62	Plot Size (6X5 m) each, No. variety- 06	180

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost Pit	04 units	50m x 13.5m (675 sqm)	500 q
Vermcompost Beg	06 beg		500 q
NADEP unit	03 units	14ft x 4ft x 2.5ft (140 sqft)	15 q
Fodder Technology Park	19.65m x 20.00 m	393 sqm	-
Shadenet House	Vegetable/Seedling Production		-
Dairy Unit	04 Cow (Freezwal Breed)	-	No Production
Goatary	07	-	-
Azola	01 Unit	-	-

ANNUAL ACTION PLAN 2023

KVK _____Gwalior_____

Year of Sanction:1999

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone/Contact		
Dr. Raj Singh Kushwah	Office	Mobile	Email
	Krishi Vigyan Kendra		

1.2 Staff Positionon(31thDec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Raj Singh kushwah	Pr. Scientist & Head	Extension	199600	20.04.2007	2006	9575336761	kushwah.raj.singh@gmail.com	
2	Subject Matter Specialist	Dr. Satya Prakash S. Tomar	Sr. Scientist	Entomology	143600	24.01.2007	2021	7999477022	sattyam_68@yahoo.co.in	
3	Subject Matter Specialist	Dr. Rashmi Bajpai	Sr. Scientist	Horticulture	143600	14.02.2007	2021	7999115678	pksgurjar@gmail.com	
4	Subject Matter Specialist	Dr. Arvinder Kaur	Sr. Scientist	Plant Pathology	143600	29.01.2007	2011	9425475640	rashmibajpai2008@gmail.com	
5	Subject Matter Specialist	Dr. Suruchi Soni	Scientist	Home Science	87300	15.02.2011	2011	9406542521	suruchiswarn@yahoo.com	
6	Subject Matter Specialist	Dr. Amita Sharma	Scientist	Agroforestry	87300	25.04.2011	2021	9131461034	asdrsbarwani@gmail.com	
7	Subject Matter Specialist	Dr. J. S. Rajput	Scientist	LPM	68800	03.06.2014	2021	8718855103	Rajpoot.jitendra@rediffmail.com	
8	Computer Programmer/ Programme Assistant	Mr. Vinod Patel	Sr. Tech. Officer	Computer Science	75400	06.03.2007	2021	9826776808	vashisthasinghbhadauria@gmail.com	
9	Programme Assistant	Dr. S. C. Srivastava	Sr. Tech. Officer	Agri Economics	71100	03.02.2007	2021	9424502755	sharadrsvkv@gmail.com	
10	Farm Manager	Dr. V. S. Bhadauria	Sr. Tech. Officer	Plant Breeding	67000	29.03.2008	2007	9407213214	vinod.patel500@gmail.com	
11	Assistant	Smt. Yashaswini Bhargava	Assistant	MBA	42000	06.12.2016	2021	7354054289	yashubhargava11@gmail.com	
12	Jr. Stenographer / Comp. Operator	Mr. Gaurav Rajput	Jr. Stenographer / Comp. Operator	-	31400	20.03.2012	2022	8770416259	gauravrajput7059@gmail.com	
13	Driver	Mr. Kiran Pratap Singh Kushwah	Driver	-	31200	09.09.2008	2021	9131810425	-	
14	Driver	Mr. Shiv Pratap Rawat	Driver	-	31200	08.07.2008	2022	9009668531	-	
15	Supporting staff	Mr. Ramswaroop Sharma	TSL	-	29700	27.07.1990	2013	9752731522		
16	Supporting staff	Vacant	-	-				-	-	

1.3 Totalland withKVK(inha):

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2	Under Demonstration Units	0.5
3	Under Crops	1.0
4	Orchard/Agro-forestry	4.0
5	Others (specify)	-
Total		6.5

1.4 InfrastructuralDevelopment:

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	2002	737.25	15.55 Lakh	-	-	-
2	Farmers Hostel	ICAR	2006	330.00	26.41 lakh	-	-	-
3	Staff Quarters (6)	ICAR	2006	308.94	26.33 lakh	-	-	-
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)	2019	274215.00	1440	Serviceable
वोकॉले Motor Cycle 2	2010	47314	94753	Going to not workable
Bolero(Jeep)	2017	604170	102080	Serviceable
Other (Pl. specify)				

C) Equipment &AVaids

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

1.5.(A).DetailsofSACmeeting to be conducted intheyear

Sl. No.	Tentative Date
1	15.06.2023
2	30.09.2023

2. DETAILS OF DISTRICT

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

S.No.	Farming system/enterprise	Description
1	AES-1	Madhya Bharat Plateau
2	AES-2	Bundelkhand uplands

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	- Soil type – Sandy loam - Major cropping pattern in irrigated area: Mustard, pearl millet, sorghum - Major cropping pattern in rainfed area: Pigeon pea + green gram/ black gram/ Sesamum - ACZ – VII (Gird)
2	AES – 2	- Soil Type – Sandy clay loam, fine soil - Major cropping pattern in irrigated area: Wheat, Rice, Mustard, pearl millet, sorghum, sugarcane - Major cropping pattern in rainfed area: green gram/ black gram/ Sesamum - ACZ - VII (Gird)

SWOT Analysis of each Agro-Ecological Situation of district

AES-1 (Madhya Bharat Plateau)

Strength	Weakness	Opportunities	Threats
- Well-connected city to Capital of India and other cities via railways, airways and roadways and also Road Communication is excellent to develop the entrepreneurship within the district - The variation in the physiography, soil, agro-climatic situation is favorable for growing variety of crops like cereals, fruits, vegetables, oilseeds etc. in the district.	- Erratic rain pattern is bottle neck for the production of most of the rainfed crops of the district - Low ground water level	- There is opportunity to harvest rain water and to use for irrigation process - Improve credit system through well establishes banking network	- Erratic rain and alternate drought like prevent to increase the cropping intensity. - Production glut affect the farmers economy

AES-2 (Bundelkhand uplands)

Strength	Weakness	Opportunities	Threats
- The well set up of extension network in agriculture and allied sectors may help in disseminating improved production technologies - Sufficient feed preparation in the district to utilize the locally available feed material	- High pest and disease incidence in most of the crops due to high humidity - Absence of quality breeds of animals, all the animals are nondescript types resulting in poor animal productivity	- Yield gap can be reduced by adequate extension support - Development of entrepreneurship in the field of animal product	- The highly productive breeds are vulnerable to many diseases due to high humid environment - To change the cropping patterns farmers may think loss the productivity by adopting new cropping pattern

LandUsePattern

Particulars	Area “000 ha”
Total Geographical area	456.5
Forest	111.1
Waste Land	33.3
Other than cultivated area	50.6
Cultivable waste and alkaline land	23.2
Pastures	13.9
Bushes	-
Current Fallow	19.0
Other Fallow	9.5
Agricultural Land	195700
Area Sown	195700
Kharif	67680
Rabi	158528
Zaid	8000
Cropping Intensity	142%

IrrigatedAreawithDifferentSources:

S. No.	Description	Area (‘000 ha)
1	Canal	77.0
2	Well	43.1
3	Tube well	11.6
4	Ponds	0.2
5	Others	

Soiltypes

S. No.	Soil type	Characteristics	Area “000 ha”
1	Sandy clay loam		277.6
2	Sandy loam		39.02

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	24200	629000	27.39
2	Sesame	18400	91000	4.93
3	Pearl Millet	8600	187000	21.88
4	Soybean	8200	160000	19.43
5	Black Gram	5100	20000	3.99
6	Wheat	101400	2657000	27.29
7	Mustard	42700	425000	9.96
8	Gram	19300	233000	12.10

Weatherdata (Jan,2022-Dec.,2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22		20.00	07.80
Feb, 22		25.50	10.77
Mar, 22		33.06	17.50
Apr, 22		41.50	24.00
May, 22		42.50	25.00
Jun, 22		42.00	24.00
July, 2022		34.00	23.00
Aug., 2022		31.50	22.00
Sept., 2022		31.00	21.50
Oct. 2022		30.00	21.00
Nov. 2022		29.50	21.00
Dec. 2022		23.20	15.50

Productionandproductivityoflivestock,Poultry,Fisheriestc.inthedistrict

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	80393	43626.93 tons	7.50 lit.
Buffalo	103838	161987.28 tons	6.50 lit.
Sheep			
Crossbred/ Indigenous	19280	 MT wool	 kg
Goats	115698	 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.

DetailsofOperationalarea/Villages(2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bhitarwar	Bhitarwar	Amrol	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops
2	Bhitarwar	Bhitarwar	Kachhaua	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops
3	Gwalior	Ghatigaon	Kheria Kachhai	Pearl millet, mustard, wheat, sesame, green	Very low ground water level	- To make awareness on water harvesting - To make seed & technology

				gram/ black gram		available for drought area
4	Gwalior	Ghatigaon	Kushrajpur	Pearl millet, mustard, wheat, sesame, green gram/ black gram	Very low ground water level	- To make awareness on water harvesting - To make seed & technology available for drought area
5	Dabra	Dabra	Ladwaia	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops
	Bhitarwar	Bhitarwar	Banwar	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops
	Bhitarwar	Bhitarwar	Himmatgarh	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops
	Bhitarwar	Bhitarwar	Nikodi	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops
	Bhitarwar	Bhitarwar	Mauchh	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops
	Bhitarwar	Bhitarwar	Rarua	Paddy & Wheat	Insect/ pest attack	- To create awareness regarding IPM and INM - To make seed available of major crops

Priority/Thrustareas

S. No.	Particulars
1.	To increase cropping intensity
2.	To create awareness regarding IPM and INM
3	To create awareness about post-harvest losses and storage
4	To make seed available of major crops
5	Balance diet and health management of milch animals
6	Need to develop orchard and cultivation of vegetable, spices and medicinal plants
7	Trained rural youth for honey production, dairying, poultry, horticulture crops and repair of farm machinery etc.
8	Control soil and water erosion through water harvesting and water conservation
9	Need to organize agriculturally based vocational training for rural youth
10	Fulfill the need about form mechanization

TECHNICALPROGRAMME

A.DetailsoftargetedmandatoryactivitiesbyKVK

OFT		FLDandCFLD	
1		2	
NumberofOFTs	NumberofFarmers	NumberofFLDs	NumberofFarmers
24	220	22	135

Training		ExtensionActivities	
3		4	
NumberofCourses	NumberofParticipants	Numberofactivities	Numberofparticipants
82	1450	307	15000

SeedProduction(Qtl.)	Plantingmaterial(Nos.)
40	150000

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									
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
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								

DetailsofOnFarmTrial(OFT)

OFT-1

Crop/Enterprise	Pumpkin
Titleofon-farm trial	Assessment of varietal improvement in Pumpkin
Problemdiagnosed	Poor yield due to fungal infection in plants
Farmingsituation	Irrigated
Production system and thematicarea	HOV
Farmers' practices	farmers using their own seed
Details of technologies selected forassessment/refinementTreatments	T1: farmers using their own seed T2: Use of kashi Harit T3: Use of Kashi Shishir
Sourceoftechnology	Kurukshetra
No.offarmers	10
Area of each trial	0.2 ha
No of trial	10
No.ofanimals (if animals are part of OFT)	-
Criticalinput	Fungicide and Beejamrit
Performance indicatorsObservationtoberecorded	No. of fruits/ plant, Yield q/ha, Net Return, B:C Ratio
Costofinput	Rs. 2700/
Totalcost	Rs. 4700/

OFT -2

Crop/Enterprise	Onion
Title of on-farm trial	Assessment of balance nutrition in Kharif Onion
Problem diagnosed	Poor yield due to imbalance dose of Nutrition
Farming situation	Irrigated
Production system and thematic area	HOS
Farmers' practices	Use of imbalance dose of Nutrition
Details of technologies selected for assessment/refinement Treatments	T1: Use of imbalance dose of Nutrition T2: Use of Recommended dose of Fertilizer (RDF) T3: Use of RDF + Biostimulant
Source of technology	MPKVV
No. of farmers	10
Area of each trial	0.2ha
No. of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	(RDF) and Biostimulant
Performance indicators Observation to be recorded	Bulb Yield (q/ha), Leaf length, Net Return, B:C Ratio
Cost of input	Rs. 2400/
Total cost	Rs. 2400/

OFT -3

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of fungicide for the management of false smut of Rice
Problem diagnosed	Low yield due to damage of grain to false smut disease
Farming situation	Irrigated
Production system and thematic area	IDM
Farmers' practices	No use of Plant protection chemicals
Details of technologies selected for assessment/refinement/Treatments	T1: No use of fungicide T2: Copper oxychloride 50% WP @ 2.5 gm/liter T3: Azoxystrobin 18.2% SC + Difenconazole 11.4% SC @ 1 ml/liter
Source of technology	CIAB
No. of farmers	10
Area of each trial	0.2 ha
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Copper Oxichloride 50% WP, Azoxystrobin 18.2% SC + Difenconazole 11.4% SC
Performance indicators/Observation to be recorded	Disease incidence(%), B:C ratio, Net return(Rs/ha
Cost of input	Rs. 4200
Total cost	Rs. 4500

Crop/Enterprise	Pearl Millet
Title of on-farm trial	Assessment of organic fungicide for management of leaf spot of pearl millet
Problem diagnosed	Occurrence of leaf spot affecting both forage and grain production
Farming situation	Irrigated
Production system and thematic area	IDM
Farmers' practices	No use of Plant Protection chemical
Details of technologies selected for assessment/refinement Treatments	T1: No use of Plant Protection chemical T2: Butter Milk @ 30li./500 li/ ha T3: Propiconazole 25 EC @ 500ml/500 li/ ha
Source of technology	CIB (2020) Kurukshetra
No. of farmers	10
Area of each trial	0.2 ha
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Propiconazole 25 EC
Performance indicators Observation to be recorded	Disease incidence(%), Disease severity(%), B:C ratio, Net return(Rs/ha)
Cost of input	Rs. 1000
Total cost	Rs. 1500

Crop/Enterprise	Paddy
Title of on-farm trial	Assessment of Chlorantraniliprole 0.4% GR @ 10 kg/ha for the management of stem borer in paddy
Problem diagnosed	Low yield due to attack of stem borer in paddy
Farming situation	Irrigated
Production system and thematic area	IPM
Farmers' practices	Injudicious use of insecticide
Details of technologies selected for assessment/refinement Treatments	T1: Injudicious use of insecticide T2: Chlorantraniliprole 0.4% GR @ 10 kg/ha T3: Cartap Hydrochloride 4% G @ 20 kg/ha
Source of technology	ICAR – Expert committee recommendation 2019- 20
No. of farmers	10
Area of each trial	0.2 ha
No of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Chlorantraniliprole 0.4% GR, Cartap Hydrochloride 4% G
Performance indicators Observation to be recorded	Stem borer infestation(%), cultivation cost, net return, B:C ratio
Cost of input	3800
Total cost	3800

Crop/Enterprise	Sorghum
Title of on-farm trial	Assessment of insect pest management in sorghum
Problem diagnosed	Low yield due to attack of insect pest
Farming situation	Irrigated
Production system and thematic area	IPM
Farmers' practices	Injudicious use of insecticide
Details of technologies selected for assessment/refinement/Treatments	T1: Injudicious use of insecticide T2: Carbofuran 3 G @ 10 kg/ha T3: Nimastra @ 500 litre/ha
Source of technology	Natural Farming recommendation 2019, Kurukshetra
No. of farmers	10
Area of each trial	0.2 ha
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Carbofuran 3 G , Nimastra
Performance indicators/Observation to be recorded	Infestation (%), cost of cultivation, gross return, net return, B:C ratio
Cost of input	Rs. 1600
Total cost	Rs. 1600

Crop/Enterprise	Buffalo
Title of on-farm trial	Assessment of use of bael fruit powder in Buffalo suffering from Diarrhoea
Problem diagnosed	High incidence of Diarrhea in animals
Farming situation	-
Production system and thematic area	LPM
Farmers' practices	Diarrhea in animals is not properly Treated
Details of technologies selected for assessment/refinement Treatments	T1: Diarrhea in animals is not properly Treated T2: The bael powder given @ 24 g/100 kg body weight orally to the Buffalo
Source of technology	IVRI Bareilly 2018
No. of farmers	10
Area of each trial	
No of trial	10
No. of animals (if animals are part of OFT)	10
Critical input	Bael fruit/ powder
Performance indicators Observation to be recorded	Milk Yield/ day/ animal/ incidence of diarrhoea gross return, net return, B:C ratio
Cost of input	Rs. 1000
Total cost	Rs. 1000

Crop/Enterprise	Buffalo
Title of on-farm trial	Assessment of Calcium with Vitamin AD3 for milk production in dairy Buffalo.
Problem diagnosed	Low milk yields due to Calcium and Vitamin deficiency After Parturition
Farming situation	-
Production system and thematic area	LPM
Farmers' practices	No use of Calcium Suspension with Vitamins
Details of technologies selected for assessment/refinement Treatments	T1: No use of Calcium Suspension with Vitamins T2: Regular intake of Calcium and Vitamins with feed improves milk production @ 100 ml per animal per day
Source of technology	NDRI 2017
No. of farmers	10
Area of each trial	
No. of trial	10
No. of animals (if animals are part of OFT)	10
Critical input	Calcium with Vitamin AD3
Performance indicators Observation to be recorded	Milk yield/ animal/ day, gross return, net return, B:C ratio
Cost of input	12500
Total cost	12500

Crop/Enterprise	Moringa
Title of on-farm trial	Cultivation of <i>Moringa oliefera</i> on bunds with field crop (2 nd year)
Problem diagnosed	Lack of agroforestry components for additional income generation
Farming situation	Irrigated
Production system and thematic area	Integrated Farming System
Farmers' practices	No plants on bunds
Details of technologies selected for assessment/refinement Treatments	T1: No plants on bunds T2: Moringa + field intercrop cultivation T3: Use of Moringa on bunds
Source of technology	IGFRI Jhansi (2020)
No. of farmers	05
Area of each trial	0.2 ha
No. of trial	05
No. of animals (if animals are part of OFT)	
Critical input	Moringa plants
Performance indicators Observation to be recorded	Yield (q), Net return (Rs.), B:C Ratio
Cost of input	Rs. 1500
Total cost	Rs. 1500

Crop/Enterprise	Fodder
Title of on-farm trial	Assessment of round year fodder crop production (2 nd year)
Problem diagnosed	Lack of awareness for availability of fodder round year
Farming situation	Irrigated
Production system and thematic area	Pasture production
Farmers' practices	No cultivation of fodder crop for animal feed
Details of technologies selected for assessment/refinement/Treatments	T1: No cultivation of fodder crop for animal feed T2: Round year green fodder production (Hybrid Napier + cowpea + berseem + Mustard + Subabool)
Source of technology	IGFRI Jhansi (2018)
No. of farmers	05
Area of each trial	0.2 ha
No. of trial	05
No. of animals (if animals are part of OFT)	
Critical input	Napier grass, cowpea and berseem
Performance indicators/Observation to be recorded	Production (q/ha), No. of cuts
Cost of input	Rs. 3000
Total cost	Rs. 3000

Crop/Enterprise	Multigrain Sattu
Title of on-farm trial	Assessment of overall acceptance multigrain sattu among children (2 - 5 years)
Problem diagnosed	Children are generally weak due to intake of low nutrient food
Farming situation	-
Production system and thematic area	Nutritional Security
Farmers' practices	Direct use of single grain practices
Details of technologies selected for assessment/refinement/Treatments	T1: Direct use of single grain practices T2: Multigrain Sattu (Wheat, Soybean and Black gram: 20, 10 and 70 per cent) + Jaggery
Source of technology	CIAE, Bhopal (2013)
No. of farmers	10
Area of each trial	
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Multigrain Sattu
Performance indicators/Observation to be recorded	Height and weight
Cost of input	Rs. 1200
Total cost	Rs. 1200

Crop/Enterprise	Multigrain flour
Title of on-farm trial	Assessment of impact of supplementation of multi grain flour on malnutrition status of children below 5 years age (2 nd year)
Problem diagnosed	Children are generally weak due to intake of low nutrient food
Farming situation	-
Production system and thematic area	Nutritional Security
Farmers' practices	Use of wheat flour for making of chapati
Details of technologies selected for assessment/refinement Treatments	T1: Use of wheat flour for making of chapati T2: Use of multigrain flour for making of chapati
Source of technology	NIN Hyderabad
No. of farmers	10
Area of each trial	
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Multigrain flour
Performance indicators Observation to be recorded	Height and weight
Cost of input	Rs. 2000
Total cost	Rs. 2000

Crop/Enterprise	African Marigold
Title of on-farm trial	Assessment of GA3 as foliar application for higher growth and stimulate the flowers in marigold
Problem diagnosed	Small Size and poor yield of the flower due to loose petals
Farming situation	Irrigated
Production system and thematic area	HOF
Farmers' practices	No Use of Plant Growth Regulator
Details of technologies selected for assessment/refinement Treatments	T1: No Use of Plant Growth Regulator T2: Use of GA3 @ 400 PPM GA3 application @ 15 & 30 DAT (Desi variety) T3: Use of GA3 @ 400 PPM GA3 application @ 15 & 30 DAT (OP/Hybrid VARIETY)
Source of technology	IARI
No. of farmers	10
Area of each trial	0.05ha
No. of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	Gibberellic Acid
Performance indicators Observation to be recorded	Flowers Yield (q/ha), No. of flowers/ plant, Net Return, B:C Ratio
Cost of input	Rs. 3800/
Total cost	Rs. 3800/

Crop/Enterprise	Okra
Title of on-farm trial	Assessment of varietal improvement in Okra
Problem diagnosed	Low yield due to local and poor variety
Farming situation	Irrigated
Production system and thematic area	HOV
Farmers' practices	farmers using their own seed
Details of technologies selected for assessment/refinement Treatments	T1: farmers using their own seed T2: Use of Kashi Chaman T3: Use of Kashi Kranti
Source of technology	IARI
No. of farmers	10
Area of each trial	0.1 ha
No. of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	Okra Seed
Performance indicators Observation to be recorded	Flowers Yield (q/ha), Nos. of flowers/ plant, Net Return, B:C Ratio
Cost of input	Rs. 2700
Total cost	Rs. 4700

Crop/Enterprise	Potato
Title of on-farm trial	Assessment of <i>T. harzianum</i> seed treatment for the management of seed borne pathogen of potato
Problem diagnosed	Low germination of seed potato due to seed borne pathogen
Farming situation	Irrigated
Production system and thematic area	IDM
Farmers' practices	Mancozeb 75 WP @ 2.5 g/kg seed
Details of technologies selected for assessment/refinement Treatments	T1: Mancozeb 75 WP @ 2.5 g/kg seed T2: <i>Trichoderma harzianum</i> @ 250ml/ha
Source of technology	IARI
No. of farmers	10
Area of each trial	0.2 ha
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	<i>Trichoderma harzianum</i>
Performance indicators Observation to be recorded	Mortality (%), Germination (%), Yield (q/ha), Cost of cultivation, Gross return, Net Return, (Rs.), B:C Ratio
Cost of input	Rs. 1600
Total cost	Rs. 2100

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of Stem Rot management in mustard
Problem diagnosed	Low yield due to Stem damage which leads to early maturity or drying of plants
Farming situation	Irrigated
Production system and thematic area	IDM
Farmers' practices	No use of plant protection and irrigation of crop during 25 December -15 January
Details of technologies selected for assessment/refinement Treatments	T1: No use of plant protection and irrigation of crop during 25 December -15 January T2: Seed treatment with <i>T.harizianum</i> @ 1g/kg seed and Soil application <i>T.harizianum</i> @ 5kg /ha T3: Foliar application of Propiconazole 25 EC @ 500ml/ha at 60DAS
Source of technology	NRCRM, Bhartpur
No. of farmers	10
Area of each trial	0.2 ha
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	<i>T.harizianum</i> , Propiconazole 25EC
Performance indicators Observation to be recorded	Disease incidence(%), B:C ratio, Net return(Rs/ha)
Cost of input	Rs 3500/-
Total cost	Rs 4000/-

Crop/Enterprise	Mustard
Title of on-farm trial	Assessment of Insecticide (Ethofenprox 10 % EC @ 500 ml/ha) for the management of sawfly in mustard
Problem diagnosed	Low yield due to attack of sawfly in mustard
Farming situation	Irrigated
Production system and thematic area	IPM
Farmers' practices	Use of Dimethoate 30 EC @ 1.5 L/ha
Details of technologies selected for assessment/refinement/Treatments	T1: Use of Dimethoate 30 EC @ 1.5 L/ha T2: Foliar application of Clothianidin 50 % WDG @ 100 gm/ha T3: Foliar spray of Ethofenprox 10 % EC @ 500 ml/ha
Source of technology	OUAT, ICAR – Expert committee recommendation 2019- 20
No. of farmers	10
Area of each trial	0.2 ha
No. of trials	10
No. of animals (if animals are part of OFT)	
Critical input	Clothianidin 50 % WDG, Ethofenprox 10 % EC
Performance indicators/Observation to be recorded	Aphid incidence (%), Yield (q/ha), Net Return, B:C Ratio
Cost of input	Rs. 1750
Total cost	Rs. 1750

OFT – 18

Crop/Enterprise	Potato
Title of on-farm trial	Assessment of Insecticide spiromesifen 240 SC @ 500 ml/ha for the management of sucking pest in potato
Problem diagnosed	Low yield due to insect attack
Farming situation	Irrigated
Production system and thematic area	IPM
Farmers' practices	Injudicious use of insecticides
Details of technologies selected for assessment/refinement Treatments	T1:Injudicious use of insecticides T2:Spiromesifen 240 SC @ 500 ml/ha T3: Nimastra @ 500 litre/ha
Source of technology	CIBRC/OUAT, 2019-20
No. of farmers	10
Area of each trial	0.2 ha
No of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Spiromesifen 240 SC and Nimastra
Performance indicators Observation to be recorded	Infestation (%), Yield (q/ha), Net Return, B:C Ratio
Cost of input	1800
Total cost	1800

OFT – 19

Crop/Enterprise	Buffalo
Title of on-farm trial	Assessment of camphor and coconut oil for the Treatment of FMD wound in buffalo
Problem diagnosed	High incidence of FMD in animals
Farming situation	-
Production system and thematic area	LPM
Farmers' practices	Wound of FMD not properly Treated
Details of technologies selected for assessment/refinement Treatments	T1: Wound of FMD not properly Treated T2: Hooves are washed with hot water then 2 pieces of camphor and 10 ml coconut oil mixed together are applied to the wounds, which act as an antiseptic than Paste of roasted brinjal and pure ghee is scrubbed on the tongue to clean as well as treat the lesion
Source of technology	Veterinary College, BAU 2018
No. of farmers	10
Area of each trial	
No. of trial	10
No. of animals (if animals are part of OFT)	10
Critical input	Ghee, Camphor and coconut oil
Performance indicators Observation to be recorded	Milk yield/ animal/ day
Cost of input	Rs. 1000
Total cost	Rs. 1000

Crop/Enterprise	Poultry
Title of on-farm trial	Assessment of vitamins supplementation for Reduction of mortality in deshi poultry in summer
Problem diagnosed	Higher mortality rate in poultry during summer due to heat stress
Farming situation	-
Production system and thematic area	LPM
Farmers' practices	No supplementation of vitamins
Details of technologies selected for assessment/refinement Treatments	T1: No supplementation of vitamins T2: Daily supplementation of Multivitamins (Vit.A 12000 IU, Vit.D- 6000IU, Vit.E- 48mg and Vit.B12-20mcg) in drinking water to birds
Source of technology	CARI
No. of farmers	10
Area of each trial	
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Vitamin supplements
Performance indicators Observation to be recorded	Body weight gain (kg)
Cost of input	Rs. 2000
Total cost	Rs. 2000

Crop/Enterprise	Tree Crop
Title of on-farm trial	Assessment of tree crop existing agroforestry system (2 nd year)
Problem diagnosed	Lack of awareness of benefits from agro-forestry system
Farming situation	Irrigated
Production system and thematic area	Agroforestry (IFS)
Farmers' practices	Sole crop (Wheat/ Mustard)
Details of technologies selected for assessment/refinement Treatments	T1: Sole crop (Wheat/ Mustard) T2: Agro-forestry (Wheat/ Mustard + Aonla)
Source of technology	IGFRI, Jhansi (2010)
No. of farmers	05
Area of each trial	0.2 ha
No. of trial	05
No. of animals (if animals are part of OFT)	
Critical input	Aonla plants
Performance indicators Observation to be recorded	Yield (q/ha), Net return (Rs.), B:C Ratio
Cost of input	Rs. 1500
Total cost	Rs. 1500

OFT -22

Crop/Enterprise	Fruit Tree
Title of on-farm trial	Assessment of natural farming practices on fruit trees (Aonla & Guava)
Problem diagnosed	Soil health contaminated by chemicals
Farming situation	Irrigated
Production system and thematic area	Agroforestry (IFS)
Farmers' practices	Use of chemical fertilizers, insecticides and fungicides
Details of technologies selected for assessment/refinement Treatments	T1: Use of chemical fertilizers, insecticides and fungicides T2: Application of natural fertilizers (Jeevamrit), insecticide (Nimastra) and fungicide (Butter milk) on fruit trees
Source of technology	IGFRI, Jhansi (2010)
No. of farmers	05
Area of each trial	0.2 ha
No. of trial	05
No. of animals (if animals are part of OFT)	
Critical input	Drum (200 lit.), Jaggery, Gram Flour
Performance indicators Observation to be recorded	Yield (q/ha), Net return (Rs.), B:C Ratio
Cost of input	Rs. 4500
Total cost	Rs. 5000

Crop/Enterprise	Aonla
Title of on-farm trial	Assessment of nutritional status of adolescent girls through incorporation of enriched aonla product in their diet
Problem diagnosed	Low iron and vitamin C content in diet
Farming situation	-
Production system and thematic area	Nutritional Security
Farmers' practices	Traditional Practice – existing dietary pattern
Details of technologies selected for assessment/refinement/Treatments	T1: Traditional food habit T2: Aonla laddu and Berfi (Aonla + Cardamom + Sugar)
Source of technology	JNKVV, Jabalpur (1995)
No. of farmers	10
Area of each trial	
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	-
Performance indicators/Observation to be recorded	Hemoglobin, weight
Cost of input	-
Total cost	-

OFT – 24

Crop/Enterprise	Millets
Title of on-farm trial	Assessment of value addition processing and utilization of millets in local food
Problem diagnosed	Less utilization of millets
Farming situation	-
Production system and thematic area	Nutritional Security
Farmers' practices	Traditional food habit
Details of technologies selected for assessment/refinement Treatments	T1: Traditional food habit T2: Bajra Laddu (Bajra + Sesame + Groundnut + jaggery)
Source of technology	ICAR Project on minor millets
No. of farmers	10
Area of each trial	
No. of trial	10
No. of animals (if animals are part of OFT)	
Critical input	Bajra Laddu
Performance indicators Observation to be recorded	Height and weight
Cost of input	Rs. 1500
Total cost	Rs. 1500

Detailed Information about OFT:

OFT - 1

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of varietal improvement in Pumpkin
Year/Season:	Kharif - 2023
Farming situation:	Farmers using their own seed
Problem diagnosis:	Poor yield due to local and poor variety
Thematic area:	HOV
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers using their own seed
T2 –Recommended Practice-	Use of kashi Harit
T3- Recommended Practice-	Use of Kashi Shishir
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR Varanasi
Characteristics of technology:	Improved variety, resistance to disease
Name of Crop/Enterprises:	Pumpkin
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2 (Recommended Practice)	T3 (Recommended Practice)
Fruit Yield	kg/plant			
No. of fruits/plant	No.			
Cost of Cultivation	Rs./ha.			
Gross Return	Rs./ha.			
Net Return	Rs./ha.			
B:C Ratio	-			

OFT - 2:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of varietal improvement in Okra
Year/Season:	Kharif - 2023
Farming situation:	Farmers using their own seed
Problem diagnosis:	Poor yield due to local and poor variety
Thematic area:	HOV
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers using their own seed
T2 –Recommended Practice-	Use of kashi Chaman
T3- Recommended Practice-	Use of Kashi Kranti
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR Varanasi
Characteristics of technology:	Improved variety, resistance to disease
Name of Crop/Enterprises:	Okra seed
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT - 3

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of fungicide for the management of false smut of Rice
Year/Season:	Kharif -2023
Farming situation:	Irrigated, Sandy loam soil.
Problem diagnosis:	Low yield due to damage of grain due to false smut disease
Thematic area:	IDM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Plant protection chemicals
T2 –Recommended Practice-	Copper Oxichloride 50% WP @ 2.5 gm/liter
T3- Recommended Practice-	Azoxystrobin 18.2% SC + Difenconazole 11.4% SC@ 1 ml/ liter
Date of sowing:	
Date of harvesting:	
Source of technology:	CIAB
Characteristics of technology:	Spray at booting stage
Name of Crop/Enterprises:	Rice
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)
Disease incidence	%			
Disease severity	%			
Cost of Cultivation	Rs./ ha			
Gross Return	Rs./ ha			
Net Return	Rs./ ha			
B:C Ratio	-			

OFT - 4

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of organic fungicide for management of leaf spot of pearl millet
Year/Season:	Kharif -2023
Farming situation:	Irrigated, Sandy loam soil.
Problem diagnosis:	Occurrence of leaf spot affecting both forage and grain production
Thematic area:	IDM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Plant Protection chemical
T2 –Recommended Practice-	Butter Milk @ 30li./500 li/ ha.
T3- Recommended Practice-	Propiconazole 25 EC @ 500ml/500 li/ ha
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR
Characteristics of technology:	
Name of Crop/Enterprises:	Pearl millet
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)
Disease incidence	%			
Disease severity	%			
Cost of Cultivation	Rs./ha.			
Gross Return	Rs./ha.			
Net Return	Rs./ha.			
B:C Ratio				

OFT - 5

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Chlorantraniliprole 0.4% GR @ 10 kg/ha for the management of stem borer in paddy
Year/Season:	Kharif-2023
Farming situation:	Irrigated, Sandy loam soil.
Problem diagnosis:	Low yield due to attack of stem borer in paddy
Thematic area:	IPM
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-	Injudicious use of insecticide
T2 –Recommended Practice-	Chlorantraniliprole 0.4% GR @ 10 kg/ha
T3- Recommended Practice-	Cartap Hydrochloride 4% G @ 20 kg/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR – Expert committee recommendation 2019- 20
Characteristics of technology:	It is a broad spectrum insecticide
Name of Crop/Enterprises:	Rice
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.			
Stem borer infestation	%			
Cost of Cultivation	Rs./ha.			
Gross Return	Rs./ha.			
Net Return	Rs./ha.			
B:C Ratio	-			

OFT - 6

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of insect pest management in sorghum
Year/Season:	Kharif-2023
Farming situation:	Irrigated, Sandy loam soil.
Problem diagnosis:	Low yield due to attack of insect pest
Thematic area:	IPM
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-	Injudicious use of insecticide
T2 –Recommended Practice-	Carbofuran 3 G @ 10 kg/ha.
T3- Recommended Practice-	Nimastra @ 500 litre/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	Natural Farming recommendation 2019
Characteristics of technology:	It is a systemic, stomach and contact having broad spectrum which gives longer duration of control.
Name of Crop/Enterprises:	Rice
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.			
Infestation	%			
Cost of Cultivation	Rs./ha.			
Gross Return	Rs./ha.			
Net Return	Rs./ha.			
B:C Ratio	-			

(OFT 7: Animal Science)

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of use of bael fruit powder in Buffalo suffering from Dirrhoea
Year/Season:	Kharif 2023
Farming situation:	Un-organized
Problem diagnosis:	High incidence of Diarrhea in animals
Thematic area:	Animal Health 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-	Diarrhea in animals is not properly Treated
T2 –Recommended Practice-	the bael powder given @ 24 g/100 kg body weight orally to the Buffalo
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IVRI Bareilly 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk yield/day/Animal	Litter				
T2(Recommended Practice)	Milk yield/day/Animal	Litter				
T3(Recommended Practice)						

(OFT 8: Animal Science)

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Calcium with Vitamin AD3 for milk production in dairy Buffalo
Year/Season:	Kharif 2023
Farming situation:	organizes farming
Problem diagnosis:	Low milk yields due to Calcium and Vitamin deficiency After Parturition
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 Suspension with Vitamins
T2 –Recommended Practice-	Regular intake of Calcium and Vitamins with feed improves milk production @ 100 ml per animal per day
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	NDRI 2017
Source of technology:	It contains optimum amount of calcium and phosphorus
Characteristics of technology:	Buffalo
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk yield per animal per day	liter				
T2(Recommended Practice)	Milk yield per animal per day	liter				
T3(Recommended Practice)	Milk yield per animal per day	liter				

(OFT 9: Agroforestry)

Name of Discipline	Agroforestry
Title of on-farm trial:	Cultivation of <i>Moringa oliefera</i> on bunds with field crop (2 nd Year)
Year/Season:	Kharif 2023
Farming situation:	No plantation of Moringa
Problem diagnosis:	Lack of agroforestry components
Thematic area:	Agroforestry
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 plants on bunds
T2 –Recommended Practice-	Moringa cultivation and yield
T3- Recommended Practice-	Use of Moringa on bunds to improve soil health
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGFRI Jhansi
Characteristics of technology:	Improvement of soil health
Name of Crop/Enterprises:	Moringa (Drum Stick)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Cultivation of Moringa	Quintal and NPK kg/ha				
T2(Recommended Practice)	Cultivation of Moringa	Quintal and NPK kg/ha				
T3(Recommended Practice)	Cultivation of Moringa	Quintal and NPK kg/ha				

(OFT 10: Agroforestry)

Name of Discipline	Agroforestry
Title of on-farm trial:	Assessment of round year fodder crop production and yield (2 nd Year)
Year/Season:	Kharif 2023
Farming situation:	No cultivation of fodder crops
Problem diagnosis:	Lack of awareness for fodder production round year
Thematic area:	Agroforestry
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No cultivation of fodder crop for animal feed
T2 –Recommended Practice-	Round year green fodder production
T3- Recommended Practice-	Quantify the green fodder production
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGFRI Jhansi
Characteristics of technology:	Increase the availability of green fodder
Name of Crop/Enterprises:	Napier grass, sorghum
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Round the year production of green fodder	Quintal				
T2(Recommended Practice)	Round the year production of green fodder	Quintal				
T3(Recommended Practice)	Round the year production of green fodder	Quintal				

OFT 11

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of balance nutrition in Rabi Onion
Year/Season:	Rabi - 2023
Farming situation:	Irrigated, sandy clay loam Bottle Gourd-Onion cropping system
Problem diagnosis:	Poor yield due to imbalance dose of Nutrition
Thematic area:	HOV
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of imbalance dose of Nutrition
T2 –Recommended Practice-	Use of Recommended dose of Fertilizer (RDF)
T3- Recommended Practice-	Use of RDF + Biostimulent
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NHRDF
Characteristics of technology:	seed treatment
Name of Crop/Enterprises:	Rabi Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2 (Recommended Practice)	T3 (Recommended Practice)
Bulb Yield	kg/plant			
Bulb yield	(q/ha)			
Leaf length	foot			
Cost of Cultivation	Rs./ha.			
Gross Return	Rs./ha.			
Net Return	Rs./ha.			
B:C Ratio	-			

OFT - 12

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of GA3 as foliar application for higher growth and stimulate the flowers in marigold
Year/Season:	Rabi - 2023
Farming situation:	Irrigated, sandy clay loam rose-merigold cropping system
Problem diagnosis:	Rose stem and leaves damaged by Black Spot
Thematic area:	HOF
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-	Use of GA3 @ 400 PPM GA3 application @ 15& 30 DAT(Deshi variety)
T3- Recommended Practice-	Use of GA3 @ 400 PPM GA3 application @ 15& 30 DAT (OP/Hybrid VARIETY)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IARI
Characteristics of technology:	Foliar Application of PGR
Name of Crop/Enterprises:	Rose
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)
Flowers Yield	kg/plant			
No. of flowers/plant	No.			
Cost of Cultivation	Rs./ha.			
Gross Return	Rs./ha.			
Net Return	Rs./ha.			
B:C Ratio	-			

OFT 13:

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Insecticide (Ethofenprox 10 % EC @ 500 ml/ha) for the management sawfly in mustard
Year/Season:	Rabi-2023
Farming situation:	-
Problem diagnosis:	Low yield due to attack of sawfly in mustard
Thematic area:	IPM
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 30 <u>EC@1.5</u> L/ha
T2 –Recommended Practice-	Foliar application of Clothianidin 50 % WDG @ 100 gm/ ha.
T3- Recommended Practice-	Foliar spray of Ethofenprox 10 % EC @ 500 ml/ha.
Date of sowing:	
Date of harvesting:	
Source of technology:	OUAT, ICAR – Expert committee recommendation 2019- 20
Characteristics of technology:	Reduction and control of insect pest population
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Yield	Kg/ha			
Infestation	%			
Cost of Cultivation	Rs./ ha			
Gross Return	Rs./ ha			
Net Return	Rs./ ha			
B:C Ratio	-			

OFT 14:

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Insecticide spiromesifen 240 SC @ 500 ml/ha for the management of sucking pest in potato
Year/Season:	Rabi 2023
Farming situation:	-
Problem diagnosis:	Low yield due to insect attack
Thematic area:	IPM
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-	Injudicious use of insecticides
T2 –Recommended Practice-	Spiromesifen 240 SC @ 500 ml/ha
T3- Recommended Practice-	Nimastra @ 500 litre/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	CIBRC/OUAT, 2019-20
Characteristics of technology:	Reduction and control of insect pest population
Name of Crop/Enterprises:	Potato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Yield	Kg/ha			
Infestation	%			
Cost of Cultivation	Rs./ ha			
Gross Return	Rs./ ha			
Net Return	Rs./ ha			
B:C Ratio	-			

OFT 15:

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of <i>Pleurotus</i> species for commercial cultivation of mushroom
Year/Season:	Rabi 2023
Farming situation:	Irrigated, sandy loam soil
Problem diagnosis:	High moisture content leads to rotting and undesirable quality of product during sun drying
Thematic area:	IDM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	<i>Pleurotus florida</i>
T2 –Recommended Practice-	<i>Pleurotus sajor-caju</i>
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	DMR Solan
Characteristics of technology:	
Name of Crop/Enterprises:	Mushroom
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	kg/bag			
Rotting of fruiting body	%			
Net Return	Rs./ ha			
B:C Ratio	-			

OFT 16:

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of Stem Rot management in mustard
Year/Season:	Rabi 2023
Farming situation:	Irrigated, sandy loam,
Problem diagnosis:	Low yield due to Stem damage which leads to early maturity or drying of plants
Thematic area:	IDM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of plant protection and irrigation of crop during 25 December -!5 January
T2 –Recommended Practice-	Seed treatment with <i>T.harizanum</i> @ 1g/kg seed and Soil application <i>T.harizanum</i> @ 5kg /ha
T3- Recommended Practice-	Foliar application of Propiconazole 25 EC@ 500ml/ha at 60DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	NRCRM, Bhartpur
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2 (Recommended Practice)	T3 (Recommended Practice)
Disease incidence	%			
Yield	q/ha.			
Cost of Cultivation	Rs./ha.			
Gross Return	Rs./ha.			
Net Return	Rs./ha.			
B:C Ratio	-			

OFT 17:

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of use of roasted brinjal in ghee and camphor in coconut oil for mouth and foot lesion, respectively for the Treatment of FMD wound in animals
Year/Season:	Rabi 2023
Farming situation:	Un-organised
Problem diagnosis:	High incidence of FMD in animals
Thematic area:	Animal Health 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-	Wound of FMD not properly Treated
T2 –Recommended Practice-	Hooves are washed with hot water. Then 2 pieces of camphor and 10 ml coconut oil mixed together are applied to the wounds, which act as an antiseptic than Paste of roasted brinjal and pure ghee is scrubbed on the tongue to clean as well as treat the lesions.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	veterinary college, BAU 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk yield per animal per day	liter				
T2(Recommended Practice)	Milk yield per animal per day	liter				
T3(Recommended Practice)	Milk yield per animal per day	liter				

OFT 18:

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of vitamins supplementation for Reduction of mortality in deshi poultry in summer
Year/Season:	Rabi-2023
Farming situation:	Poultry production
Problem diagnosis:	Higher mortality rate in poultry during summer due to heat stress
Thematic area:	LPM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No supplementation of vitamins
T2 –Recommended Practice-	Daily supplementation of Multivitamins (Vit.A 12000 IU, Vit.D-6000IU, Vit.E- 48mg and Vit.B12-20mcg) in drinking water to birds
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	CARI
Characteristics of technology:	
Name of Crop/Enterprises:	Poultry
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Body weight gain	Kg				
T2(Recommended Practice)	Body weight gain	Kg				

OFT 19:

Name of Discipline	Agroforestry
Title of on-farm trial:	Assessment of tree crop interaction (2 nd Year)
Year/Season:	Rabi 2023
Farming situation:	un organized
Problem diagnosis:	Lack of awareness of benefits from agro-forestry system
Thematic area:	Agro-forestry
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-	Sole crop (Wheat/ Mustard)
T2 –Recommended Practice-	Agro-forestry (Wheat/ Mustard + Aonla)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGFRI, Jhansi
Characteristics of technology:	Improvement of Soil Health and generate additional income
Name of Crop/Enterprises:	Wheat/ Mustard + Aonla
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Production (q/ha)					
T2(Recommended Practice)	Production (q/ha)					
T3(Recommended Prac	Production (q/ha)					

OFT 20:

Name of Discipline	Agroforestry
Title of on-farm trial:	Assessment of natural fertilizers, insecticide and fungicide on fruit trees
Year/Season:	Rabi 2023
Farming situation:	Use of chemical fertilizers, insecticides and fungicides
Problem diagnosis:	Soil health contaminated by chemicals
Thematic area:	Agro-forestry
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of chemical fertilizers, insecticides and fungicides
T2 –Recommended Practice-	Application of natural fertilizers, insecticide and fungicide on fruit trees
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	Kurukshetra
Characteristics of technology:	Improvement of Soil Health and chemical free fruit production
Name of Crop/Enterprises:	Guava, Aonla and Lemon
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Production (q/ha)					
T2(Recommended Practice)	Production (q/ha)					
T3(Recommended Prac	Production (q/ha)					

2.3. Information about Home Science OFT:

(OFT – 1)

Title of on-farm trial:	Assessment of overall acceptance multigrain sattu among children (2 - 5 years)
Year/Season:	Kharif-2023
Problem diagnosis:	Children are generally weak due to intake of low nutrient food
Thematic area:	Nutrition 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-	Direct use of single grain practices
T2 –Recommended Practice-	Multigrain Sattu (Wheat, Soybean and Black gram: 20, 10 and 70 per cent) + Jaggery
Source of technology:	CIAE, Bhopal (2013)
Characteristics of technology:	Protein Rich product – Multigrain Sattu
Name of Crop/Enterprises:	Multigrain Sattu
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

(OFT – 2)

Title of on-farm trial:	Assessment of impact of supplementation of multi grain flour on malnutrition status of children below 5 years age (2 nd year)
Year/Season:	Kharif-2023
Problem diagnosis:	High magnitude of PEM among children
Thematic area:	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of wheat flour for making of chapati
T2 –Recommended Practice-	Use of multigrain flour for making of chapati
Source of technology:	NIN Hyderabad
Characteristics of technology:	Multigrain flour made up of wheat, pearl millet, quinoa, gram
Name of Crop/Enterprises:	Multigrain flour
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

(OFT – 3)

Title of on-farm trial:	Assessment of value addition processing and utilization of millets in local food
Year/Season:	Rabi 2023
Problem diagnosis:	Less utilization of millets
Thematic area:	Nutritional security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Traditional food habit
T2 –Recommended Practice-	Bajra Laddu (Sesame + Groundnut + jaggery)
T3 –Recommended Practice-	
Source of technology:	ICAR Project on minor millets
Characteristics of technology:	Calcium and iron rich product
Name of Crop/Enterprises:	Bajra Laddu
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

(OFT – 4)

Title of on-farm trial:	Assessment of nutritional status of adolescent girls through incorporation of enriched aonla product in their diet
Year/Season:	Rabi 2023
Problem diagnosis:	Low iron and vitamin C content in diet.
Thematic area:	Nutritional security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	T1: Traditional Practice – existing dietary pattern
T2 –Recommended Practice-	T2: Aonla laddu and Berfi (Aonla + Cardamom + Sugar)
T3 –Recommended Practice-	
Source of technology:	JNKVV, Jabalpur (1995)
Characteristics of technology:	High iron and vitamin C efficient diet
Name of Crop/Enterprises:	-
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

DetailsofFLDstobeorganized(Basedonsoiltestanalysis)

Sl. No .	Crop	Themati c area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified for performance evaluation
1	Bottle Gourd	HOV	Demonstration of PGRs (Plant growth regulator) in Bottle gourd crop for increasing pistilate flowers.	Ethelene	Kharif 2023	1.0	05	No of Pistilate Flowers and Yield(q/ha)
2	Guava	HOF	Demonstration of crop regulation practice in guava fruit crop	Urea	Kharif 2023	1.0	05	Fruit yield(kg/pla nt) and size of fruit
3	Green Pea	HOV	Demonstration of HYV of Pea	Seed	Rabi 2023	1.0	05	Yield(q/ha), No. of seeds/pod
4	Marigold	HOF	Demonstration on Zinc and Iron micronutrients for longevity of intact flower in marigold crop	ZnSO4 and FeSO4	Rabi 2023	1.0	05	Yield(q/ha)
5	Groundnut	IDM	Demonstration on IDM against Tikka disease of groundnut	Hexaconazole 5% EC	Kharif 2023	2.0	05	Disease severity (%), Yield (q/ha), Cost of cultivation (Rs/ha), Net return (Rs/ha), B:C Ratio
6	Black Gram	IDM	Demonstration on Leaf spotmanagement in Blackgram	Tebuconazole 10%+ Sulphur 65%	Kharif 2023	2.0	05	Disease severity(%), Yield(q/ha), Cost of cultivation(Rs/ha), Net return(Rs/h a), B:C ratio
7	Rose	IDM	Demonstration on Powdery mildew management in Rose	Dinocap 48% EC/ Sulphur 40%SC	Rabi 2023	1.0	05	Disease severity(%), Yield(q/ha), Cost of cultivation(Rs/ha),

								Net return(Rs/ha), B:C ratio
8	Potato	IDM	Demonstration on scab disease management in potato	<i>Trichoderma harzianum</i>	Rabi 2023	1.0	05	Disease severity(%), Yield(q/ha), Cost of cultivation(Rs/ha), Net return(Rs/ha), B:C ratio
9	Paddy	IPM	Pymetrozine 50 WG @ 300 gram/ha for management of brown plant hopper in paddy	Pymetrozine 50 WG	Kharif 2023	2.0	05	Percentage damage, yield and B:C ratio
10	Paddy	IPM	Demonstration of Fipronil 0.3G @ 15 kg/ha for the management of stem borer in paddy under Paddy-Wheat cropping system	Fipronil 0.3G	Kharif 2023	2.0	05	Percentage damage, yield and B:C ratio
11	Mustard	IPM	Demonstration of Clothianidin 50 % WDG @ 100 gm/ha. Insecticide for Aphid management in mustard	Clothianidin 50 % WDG	Rabi 2023	2.0	05	Percentage damage, yield and B:C ratio
12	Gram	IPM	Demonstration of Chlorantraniliprole 18.5 % SC @ 125 gm/ha. Insecticide for pod borer management in Gram	Chlorantraniliprole 18.5 % SC	Rabi 2023	2.0	05	Percentage damage, yield and B:C ratio
13	Aonla	IFS	Demonstration of Aonla based agroforestry system on Kharif Crop	Aonla plant	Kharif 2023	1.0	05	Growth & Yield, B:C Ratio
14	Tree + rabi crop	Agro forestry	Demonstration of Natural farming technology on fruit trees and crops	Jeevamrit and Ghanjeevamrit	Kharif 2023	1.0	05	Yield, B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	22	January, February, March, September, October	160

2	Farmers Training	22	January, February, March, April, July August, September, October, November	660
3	Media coverage	10	January to	Mass
4	Training for extension functionaries	12	June, July, September and October	240

DetailsofFLDonEnterprises

FarmImplements

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

*Fieldefficiency,laboursavingetc.

LivestockEnterprises

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	Murrah	10	10	bypass fat powder	Milk yield in liter, B:C Ratio, Gross return and Net Return		
Goat	Sirohi	10	10	Mineralized Salt bricks	Body weight gain in kg, , B:C Ratio , Gross return and Net Return		
Poultry	Kadaknath	10	200	Curcuma longa powder	Body weight gain in gram, B:C Ratio , Gross return and Net Return		
Cow	Undescriptive	10	10	Herbal oil, Neem with Karanj oil	Incidence of parasite, Milk yield in liter, B:C Ratio , Gross return and Net Return		

*Milkproduction,meatproduction,eggproduction,reductionindiseaseincidenceetc.

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
Mushroom Cultivation	Button	10	0.1 ha	Spawn	Yield (kg)		
Kitchen Garden	Hybrid	10	0.1 ha	Vegetables seed and saplings	Yield (kg)		
Kitchen Garden	Hybrid	10	0.1 ha	Vegetables seed and saplings	Yield (kg)		
Multigrain Dalia	Dalia	05	-	Multigrain Dalia	Weight and height		

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Sesame			Seed + Fertilizers	Kharif 2023	30	75	
2	Mustard			Seed + Fertilizers	Rabi 2024	100	250	
3	Gram			Seed	Rabi 2024	50	125	

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	September, October, December, January, February	450
2	Farmers Training	09	July, August, September, October, November, December, January, February	450
3	Media coverage	10	July to March	Mass
4	Training for extension functionaries	02	July and October	40

Training(IncludingthesponsoredandFLDtrainingprogrammes):

A) ONCampus

Thematic Area	No. of Courses	Durati on (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	01	01	15	05	20	14	04	18	38
Total	01	01	15	05	20	14	04	18	38
g) Medicinal and Aromatic Plants									
Production and management technology	01	01	15	05	20	16	04	20	40

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Group dynamics									
Formation and Management of SHGs	01	01	10	05	15	20	08	28	43
Mobilization of social capital									
Entrepreneurial development of farmers/youths	01	01	10	05	15	20	08	28	43
WTO and IPR issues									
Total	02	02	20	10	30	40	16	56	86
XI Agro-forestry	02	02	30	10	40	30	10	40	80
Total	02	02	30	10	40	30	10	40	80
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production	04	20	05	05	10	15	15	30	40
Poultry Farming	03	15	10	05	15	30	15	45	60
Seed production									
Planting material production	05	25	05	05	10	15	15	30	40
Vermi-culture									
Value addition									
Sheep and goat rearing	03	15	10	05	15	30	15	45	60

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Para extension workers									
TOTAL	15	75	30	20	50	90	60	150	200
(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) OFFCampus

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	02	02	30	10	40	32	08	40	80
Nursery raising									
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Cultivation of Fruit	01	01	15	05	20	16	04	20	40
Management of young plants/orchards	01	01	15	05	20	16	04	20	40
Export potential of ornamental plants	01	01	15	05	20	16	04	20	40
Propagation techniques of Ornamental Plants	01	01	15	05	20	16	04	20	40

d) Plantation crops									
e) Tuber crops	02	02	30	10	40	32	08	40	80
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	02	02	30	10	40	32	08	40	80
Poultry Management	02	02	30	10	40	32	08	40	80
Disease Management	02	02	30	10	40	32	08	40	80
Feed management	02	02	30	10	40	32	08	40	80
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	01	01	00	05	05	00	35	35	40
Design and development of	01	01	00	05	05	00	35	35	40

Annexure–I: Experts discipline wise Training Programme
i) Farmers & Farm women
1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
January	F/FW	Production of low volume and high value crops	01	15	05	20	16	04	20	40
July	F/FW	Nutrient Management	01	15	05	20	16	04	20	40
Livestock production										
January	F/FW	Live Production Management	01	15	05	20	16	04	20	40
July	F/FW	Animal Disease Management	01	15	05	20	16	04	20	40
Home Science										
January	F/FW	Women empowerment	01	00	15	15	00	20	20	35
July	F/FW	Women empowerment	01	00	15	15	00	20	20	35
Plant Protection										
January	F/FW	Integrated Pest Management	01	10	05	15	20	08	28	43
February	F/FW	Integrated Disease Management	01	10	05	15	20	08	28	43
July	F/FW	Integrated Pest Management	01	10	05	15	20	08	28	43
August	F/FW	Integrated Disease Management	01	10	05	15	20	08	28	43
Agriculture Extension (Capacity Building and Group Dynamics)										
January	F/FW	Formation and Management of SHGs	01	10	05	15	20	08	28	43
July	F/FW	Entrepreneurial development	01	10	05	15	20	08	28	43

		of farmers/ youth								
Soil Science										
Agroforestry										
January	F/FW	Plantation geometry	01	15	05	20	16	04	20	40
July	F/FW	Soil Improvement	01	15	05	20	16	04	20	40

2. OffCampus

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										
February	F/FW	Production of low volume and high value crops	01	15	05	20	16	04	20	40
March	F/FW	Production of low volume and high value crops	01	15	05	20	16	04	20	40
April	F/FW	Nursery raising	01	15	05	20	16	04	20	40
August	F/FW	Nutrient Management	01	15	05	20	16	04	20	40
September	F/FW	Nursery raising	01	15	05	20	16	04	20	40
October	F/FW	Production of low volume and high value crops	01	15	05	20	16	04	20	40
November	F/FW	Floriculture	01	15	05	20	16	04	20	40
December	F/FW	Production and Management technology	01	15	05	20	16	04	20	40
Livestock production										
February	F/FW	Live Production Management	01	15	05	20	16	04	20	40
March	F/FW	Live	01	15	05	20	16	04	20	40

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Production Management								
April	F/FW	Animal Nutrition	01	15	05	20	16	04	20	40
May	F/FW	Animal Nutrition	01	15	05	20	16	04	20	40
June	F/FW	Animal Disease Management	01	15	05	20	16	04	20	40
August	F/FW	Poultry Management	01	15	05	20	16	04	20	40
September	F/FW	Poultry Management	01	15	05	20	16	04	20	40
October	F/FW	Poultry Management	01	15	05	20	16	04	20	40
November	F/FW	Poultry nutrition & Disease Management	01	15	05	20	16	04	20	40
December	F/FW	Poultry nutrition & Disease Management	01	15	05	20	16	04	20	40
Home Science										
February	F/FW	Nutritional Security	01	00	15	15	00	20	20	35
March	F/FW	Women empowerment	01	00	15	15	00	20	20	35
April	F/FW	Women empowerment	01	00	15	15	00	20	20	35
August	F/FW	Women empowerment	01	00	15	15	00	20	20	35
September	F/FW	Designing and development for high nutrient efficiency diet	01	00	15	15	00	20	20	35
October	F/FW	Designing and development for high nutrient efficiency diet	01	00	15	15	00	20	20	35
November	F/FW	Designing and	01	00	15	15	00	20	20	35

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		development for high nutrient efficiency diet								
Plant Protection										
February	F/FW	Integrated Pest Management	01	15	05	20	16	04	20	40
March	F/FW	Integrated Pest Management	01	15	05	20	16	04	20	40
April	F/FW	Integrated Pest Management	01	15	05	20	16	04	20	40
August	F/FW	Integrated Pest Management	01	15	05	20	16	04	20	40
September	F/FW	Integrated Pest Management	01	15	05	20	16	04	20	40
October	F/FW	Integrated Pest Management	01	15	05	20	16	04	20	40
February	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40
March	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40
April	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40
August	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40
September	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40
October	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40
November	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40
December	F/FW	Integrated Disease Management	01	15	05	20	16	04	20	40

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Agriculture Extension (Capacity Building and Group Dynamics)										
February	F/FW	SHG & FPO/ Micro Finance	01	15	05	20	16	04	20	40
March	F/FW	SHG & FPO/ Micro Finance	01	15	05	20	16	04	20	40
April	F/FW	SHG & FPO/ Micro Finance	01	15	05	20	16	04	20	40
August	F/FW	SHG & FPO/ Micro Finance	01	15	05	20	16	04	20	40
September	F/FW	SHG & FPO/ Micro Finance	01	15	05	20	16	04	20	40
October	F/FW	SHG & FPO/ Micro Finance	01	15	05	20	16	04	20	40
Soil Science										
Agroforestry										
February	F/FW	Integrated Farming System	01	15	05	20	16	04	20	40
March	F/FW	Soil Protection	01	15	05	20	16	04	20	40
April	F/FW	Soil health improvement through natural farming	01	15	05	20	16	04	20	40
August	F/FW	Soil Improvement	01	15	05	20	16	04	20	40
September	F/FW	Pasture production	01	15	05	20	16	04	20	40
	F/FW	Importance of Agroforestry	01	15	05	20	16	04	20	40

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
August	Extension Personal	Production Technology of Vegetables crops in Kharif Season	01	10	02	12	08	05	13	25
December	Extension Personal	Production Technology of Vegetables crops in Rabi Season	01	10	02	12	08	05	13	25
Livestock production										
	Extension Personal	Dairy Management	01	10	02	12	08	05	13	25
	Extension Personal	Prevention and control of poultry Diseases	01	10	02	12	08	05	13	25
Home Science										
August	Extension Personal	Food Preservation	01	00	15	15	00	10	10	25
October	Extension Personal	Awareness on Millets Food	01	00	15	15	00	10	10	25
Plant Protection										
August	Extension Personal	Plant Protection in Kharif Crops	01	10	02	12	08	05	13	25
December	Extension Personal	Plant Protection in Rabi Crops	01	10	02	12	08	05	13	25
August	Extension Personal	IPM in Kharif Crops and Vegetables	01	10	02	12	08	05	13	25
December	Extension Personal	IPM in Rabi Crops and Vegetables	01	10	02	12	08	05	13	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Agroforestry	Extension Personal	Improvement of Soil Organic Matter through	01	10	02	12	08	05	13	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	
		Carbon Sequestration by Tress								
	Extension Personal	Improvement of Soil health through natural farming	01	10	02	12	08	05	13	25
Soil Science										
Agri Economics										
	Extension Personal	Micro Financing and entrepreneurship development	01	10	02	12	08	05	13	25

[illegible][illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
	Wheat		10
OILSEEDS			
PULSES			
	Green Gram		10
VEGETABLES			
	Okra		0.5
	Spinach		0.5
FLOWER CROPS			
	Dolicus		0.2
	Marigold		0.05
OTHERS (Spices)			
	Fenugreek		02

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Papaya	Taiwan (Red Lady and 786)	1000
	Drumstick	PKM-1	10000
	Guava	Gwalior-27, L-49, Lalit, Shweta	7000
	Lime	Kagji lime, Parmalini, Vikram, Desi	3000
	Pomegranate	Bhagwa, Ganesh, Mridula	2000
	Custard Apple	Bala Nagar	2000
	Jackfruit	Local	1000
	Bael	NB-5	500
	Jamun	Local	5000
	Aonla	Local	1000
SPICES			
	Chilli	OP/Hybrid	5000
	Onion	ADR, ALR	50000
VEGETABLES			
	Tomato	OP/Hybrid	5000
	Brinjal	OP/Hybrid	5000
	Cauliflower	OP/Hybrid	3000
	Cabbage	OP/Hybrid	3000
	Bottle Gourd	OP/Hybrid	200
	Sponge Gourd	OP/Hybrid	200

	Biter gourd	OP/Hybrid	200
	Cucumber	OP/Hybrid	200
FOREST SPECIES			
	Bamboo	Local	500
	Moringa	Local	500
	Peepal	Local	200
	Neem	Local	200
	Bael	Local	100
	Khamer	Local	200
ORNAMENTAL CROPS			
	Marigold	Pusa Narangi, Pusa Basanti	5000
	Rose	Local	1000
	Harsringar	Local	1000
	Gudhal	Local	1000
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost			150000
2	NADEP			
3	Worms			60
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
	Adult	Jamunapari	10	
	Adult	Sirohi	15	
	Adult	Barbari	15	
POULTRY				
	Chicks	Kadaknath	12000	
	Layer	Kadaknath	1500	
	Eggs	Kadaknath	1500	
FISHERIES				
Others (Mushroom)	Fresh/Dry	Oyster		60.00

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01.01.2023	January to March 2023	1000
01.04.2023	April to June 2023	1000
01.07.2023	July to September 2023	1000
01.10.2023	October to December 2023	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
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	AES
2	Rural Youth	
3	In-service personnel	Line department
4	methodology for identifying OFTs/FLDs	AES
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	Rampur	Ghatigoan	40
2	Simariya Tal	Dabra	45
3	Kathoda	Dabra	60
4	Siharan	Bhitarwar	70
5	Khadwai	Dabra	42
6	Ghamadpura	Dabra	50
7	Ratwai	Morar	20

1. No. of farm families selected per village: 05

2. No. of survey/PRA to be conducted: 05

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:

List of equipments purchased:

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

Detailsofsamplesanalyzedso far:

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

LINKAGES

Functionallinkagewithdifferentorganizations

Name of organization	Nature of linkage
ATMA	Demonstration Diagnostic visit & Training
IFFCO	Demonstration & Training
NFL	Demonstration & Training
KRIBHCO	Training
NABARD	Training
DFW&AD	Soil Health Card, Trainings
Veterinary Dept.	Training
Horticulture Dept.	Demonstration & Training
Fisheries Dept.	Training
Women & Childcare	Training and demonstration

Detailsoflinkage withATMA/ NFSM

a)IsATMAimplemented in yourdistrict Yes

Name of Programme	Nature of linkage
ATMA	Demonstration, Diagnostic visit & Training, Interface, Farm School etc.

GivedetailsofprogrammersimplementedunderNationalHorticulturalMission

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: ARYA (Nursery Management)

Month	Activity details	Targeted Beneficiaries/Area/Coverage
October	Capacity building on entrepreneurship skill for establishment of units, critical technology accelerator and management	40/ Dabra, Morar, Ghatigoan and Bhitarwar)
November	Stakeholder interaction involving input suppliers, bankers and market players, bank loans, linking with ongoing developmental programmes	40/ Dabra, Morar, Ghatigoan and Bhitarwar
December	Exposure visit to resource Centers	40/ Dabra, Morar, Ghatigoan and Bhitarwar
January	Evaluation of seedling/saplings production	40/ Dabra, Morar, Ghatigoan and Bhitarwar
February	Preparation of detailed project and linking with banks for sanction of loan	40/ Dabra, Morar, Ghatigoan and Bhitarwar

Name of Flagship programmes: ARYA (Poultry Farming)

Month	Activity details	Targeted Beneficiaries/Area/Coverage
April	Capacity building on entrepreneurship skill	60/ Dabra, Morar, Ghatigoan and Bhitarwar
June	Preparation of detailed project report and linking with banks for sanction of loan	60/ Dabra, Morar, Ghatigoan and Bhitarwar
August	Stakeholder interaction involving input suppliers, bankers and market players, bank loans, linking with ongoing developmental programmes	60/ Dabra, Morar, Ghatigoan and Bhitarwar
October	Exposure visit and interaction session	60/ Dabra, Morar, Ghatigoan and Bhitarwar
December	Hands on training at KVk for establishment of units, critical technology accelerator and management	60/ Dabra, Morar, Ghatigoan and Bhitarwar

Name of Flagship programmes: ARYA (Goat Farming)

Month	Activity details	Targeted Beneficiaries/Area/Coverage
May	Capacity building on entrepreneurship skill	60/ Dabra, Morar, Ghatigoan and Bhitarwar
July	Preparation of detailed project report and linking with banks for sanction of loan	60/ Dabra, Morar, Ghatigoan and Bhitarwar
September	Stakeholder interaction involving input suppliers, bankers and market players, bank loans, linking with ongoing developmental programmes	60/ Dabra, Morar, Ghatigoan and Bhitarwar
November	Exposure visit and interaction session	60/ Dabra, Morar, Ghatigoan and Bhitarwar

January	Hands on training at KVK for establishment of units, critical technology accelerator and management	60/ Dabra, Morar, Ghatigoan and Bhitarwar

Name of Flagship programmes: ARYA (Mushroom Production)

Month	Activity details	Targeted Beneficiaries/Area/Coverage
October	Capacity building on mushroom production technology	40/ Dabra, Morar, Ghatigoan and Bhitarwar)
November	Stakeholder interaction involving input suppliers, bankers and market players	40/ Dabra, Morar, Ghatigoan and Bhitarwar
December	Exposure visit of commercial mushroom units	40/ Dabra, Morar, Ghatigoan and Bhitarwar
January	Preparation of detailed project report and linking with banks for sanction of loan	40/ Dabra, Morar, Ghatigoan and Bhitarwar
February	Hands on training at KVK for establishment of units, critical technology accelerator and management	40/ Dabra, Morar, Ghatigoan and Bhitarwar

Name of Flagship programmes: Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Training on Natural Farming	Dabra, Morar, Ghatigoan and Bhitarwar
	Awareness Programme on components of NF	
	Awareness Programme on components of NF	
	Awareness Programme on components of NF	
	Awareness Programme on components of NF	
February	Awareness Programme on components of NF	Dabra, Morar, Ghatigoan and Bhitarwar
	Awareness Programme on components of NF	
March	Awareness Programme on components of NF	Dabra, Morar, Ghatigoan and Bhitarwar
	Awareness Programme on components of NF	

Planning for Crop Cafeteria: 2023

Total Area of Crop cafeteria: 1296 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Chilli	Kharif	Pusa Sadabahar, Kashi Anmol, Pusa Jwala. Indem-67, P.S.B., GSCHF1, Pant C-1, KA-2, Jawahar-218, US-611, Divya-2F1, ARCH 930F1, Jawahar-283, Anjali, Shimla Mirch.	(14 varieties)	4X3
Onion	Kharif	Agrifound Dark Red,	(01varieties)	4X3
Garlic	Rabi	G-282, G-323, G-50, G-41, Bhima Omkar	(05 varieties)	4X3
Fenugreek	Rabi	RMT-303, RMT-361, RMT-351, RMT-305, RMT-143, RMT-1	(06 varieties)	4X3
Marigold	Summer	Pusa Narangi, Pusa Arpita, Pusa Basanti	(03 varieties)	4X3

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Kadakhnath Poultry and Hatchery unit	Produce poultry product (Chicks, adult birds and eggs)	300	12000 (Chicks, adult birds and eggs)
Goat unit	Barbary, Sirohi and Jmunapari breeds	500	40
Vermi Compost	Vermi compost and vermi culture	150	1500 (q)
Nursery Unit	Net House, Poly House, Mist Chamber	500	150000 (plants)
Mushroom Unit	Experimental unit	5	50 (kg)

ANNUAL ACTION PLAN 2023

KVK__Jhabua

Year of sanction: 1985..

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. I. S. Tomar	Krishi Vigyan Kendra, Jhabua 457661	9425188028	kvkjhabua@rvskvv.net, kvkjhabua@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. I. S. Tomar	Sr. Scientist & Head	Horticulture	37400-67000+10000	28.03.1988	28.03.1988	9425188028	kvkjhabua@rediffmail.com kvkjhabua@rvskvv.net	
2	Subject Matter Specialist	Dr. Jagdeesh Morya	Scientist	Agril. Extension	15600-39100+6000	31.01.2007	31.01.2007	9893967135		
3	Subject Matter Specialist	Dr. V. K. Singh	Scientist	Soil Science	15600-39100+7000	17.02.2011	17.02.2011	8349292493		
4	Subject Matter Specialist	Dr. Chandan Kumar	Scientist	LPM	15600-39100+6000	18.07.2014		9896938118		
5	Subject Matter Specialist									
6	Subject Matter Specialist									
7	Subject Matter Specialist									
8	Programme Assistant									
9	Computer Programmer / Programme Assistant									
10	Farm Manager							9752476879		
11	Assistant									
12	Jr. Stenographer / Comp. Operator	Sh.Chandrashekhar Lokhande	Jr. Stenographer / Comp. Operator	12th & DCA	5200-20200+2800	29.08.2019	29.08.2019	7869556338		
13	Driver	Sh. Raghavendra Singh Bhadoria	Driver	Higher Secondary	5200-20200+1900	05.07.2008	05.07.2008	9424549777		
14	Driver									
15	Supporting staff	Sh. Gulab Singh Bakhala	Peon	Middle	5200-20200+1900	01.08.1985	01.08.1985	-		
16	Supporting staff									

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

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2	Under Demonstration Units	3.0
3	Under Crops	12.0
4	Orchard/Agro-forestry	2.0
5	Others (specify)	6.0
Total		24.0

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	1989					
2	Farmers Hostel	ICAR	2011					
3	Staff Quarters (6)	ICAR	2009					
4	Demonstration Units (2)	ICAR	2012					
5	Fencing	ICAR	2006					
6	Rain Water harvesting system	ICAR	2019					
7	Threshing floor	ICAR	2011					
8	Farm godown	ICAR	2011					

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2003	-	35600 hr	Unserviceable
Motor Cycle 2	2007	47500	25987	Good
Bolero(Jeep)	2017	599930	78580	Good
Other (Pl. specify)				

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	May 2023 for Kharif season planning
2	September 2023 for Rabi season planning

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, maize-wheat, soybean-maize, maize+groundnut-wheat/chickpea, Maize+blackgram- wheat/chickpea, Cotton+maize, Cotton, Cotton+ soybean, vegetables
2	AES – 2	
3	AES – 3	
4		

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 - 11th Zone – Jhabua Hills	Undulating land, red and black with skeleton type soil
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
Convergence with agriculture and allied departments.	- Lack of knowledge of improved technology of crop cultivation. - Use of traditional cultivation practices and local varieties. - Imbalance use of fertilizer, higher seed rate,	crop diversification, balance use of fertilizer with soil health based fertilizer recommendation, Scope for natural and organic farming,	Higher crop yield with good soil health with less input cost.

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	293.057
Forest	7.429
Waste Land	18.349
Other than cultivated area	18.349
Cultivable waste and alkaline land	50.361
Pastures	5.076
Bushes	-
Current Fallow	
Other Fallow	
Agricultural Land	188.320
Area Sown	189.260
Kharif	189.260
Rabi	123.726
Zaid	4.310
Cropping Intensity	167.65

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	23400
2	Well	118500
3	Tube well	10100
4	Ponds	2700
5	Others	10700

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Medium Black soil	45	84.75
2	Sandy loam soil (Red Yellow soil)	35	65.90
3	Skeletal soil	20	37.70
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	Wheat	91817	2862000	31.17
2	Chickpea	18616	237700	12.77
3	Maize (Rabi)	9353	233650	24.98
4	Maize (kharif)	57251	1520000	26.55
5	Soybean	66255	987200	14.90
6	Cotton	34968	723850	20.70
7	Groundnut	7850	122100	15.55

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	0.0	26.5	9.8
Feb, 22	0.0	30.7	10.7
Mar, 22	1.2	37.2	16.7
Apr, 22	0.0	41.2	20.3
May, 22	0.0	40.6	26.6
Jun, 22	27.3	38.1	26.5
July, 2022	231.9	30.5	24.1
Aug., 2022	397.4	30.0	23.1
Sept., 2022	97.2	31.9	22.6
Oct. 2022	70.0	33.1	17.9
Nov. 2022	0.0	32.1	12.6
Dec. 2022	0.0	30.2	12.3

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	430840	 MT.	 kg
Buffalo	132650	 MT.	 kg
Sheep			
Crossbred/ Indigenous	0	 MT wool	 kg
Goats	425402	 MT	 kg
Pigs Crossbred/ Indigenous	0	---	---
Rabbits	0		
Poultry			
Hens	608831	 Lakh eggs	 eggs/ bird/yr
Turkey and others	0		
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	Jhabua	Jhabua	Kallipura, Antarveli, Khedi, Gopalpura, Umari, Ghatiya	Soybean, cotton, maize, vegetables, wheat, chickpea, blackgram, groundnut, pigeonpea,	Imbalance use of fertilizer, use of local/ old variety,	Introducing new improved varieties, advance crop production practices, STCR based fertilizer recommendation.
2	Rama	Rama	Chhapari, Bhuradabra, Rachwa			
3	Meghnagar	Meghnagar	Navgava, Chhotaguda, Navapada, Sajeli, Hatyadeli, Narsinghpura			
4	Ranapur	Ranapur	Bhurimati, Tandi, Ban, Bhodali			
5	Petlawad	Petlawad	Kardavat			
6	Thandla	Thandla	Sutrethi, parvaliya, machhlimata, Khatamb, Parwaliya,			

Priority / Thrust areas

S. No.	Particulars
1.	❖ Imbalanced use of NPK fertilizers, especially excessive use of Nitrogen and insufficient amount or non-usage of potash fertilizers is the most common practice of the farmers in the district. ❖ Soil is deficit in S and Zn. ❖ Disease outbreak ❖ Lack of knowledge of Mineral use ❖ Lack of awareness about breed up gradation ❖ Lack of awareness about balance feeding ❖ Lack of knowledge about INM practices and seed treatment. ❖ No awareness in Soil Testing & Micronutrients ❖ Lack of knowledge about improved method of organic manure preparation.

TECHNICAL PROGRAMME
A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
14		23	

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 on activities	Supply of seeds, planting materials etc.
1	Natural Farming	Soybean	High cost of input, less availability of irrigation water and low organic carbon in soil	Assessment of Zero Budget natural farming on the yield and economics of Soybean JS 2098 under soybean wheat cropping system in Jhabua District					-
2	Supplementation of nitrogen through Nano Urea	Maize	High losses of nitrogen fertilizer in crop filed	Assessment and effect of Nano urea liquid fertilizer on Maize (Based on STV)					
3	Low yield of soybean due to less organic carbon	Soybean	Low content of organic carbon in soil	Assessment of organic and natural farming with reference to ridge bed system of farming.					
4	Natural Farming	Tomato	High infestation of Fusarium wilt in tomato	Assessment and effect of bio treatment techniques of seedling to control of Fusarium wilt incidence in tomato					
5	Low yield of onion due to local variety	Onion	Use of Local varieties	Assessment of Kharif onion variety Agrifound red					
6	Natural Farming	Wheat	High cost of input, less availability of irrigation water and low organic carbon in soil	Assessment of Zero Budget natural farming on the yield and economics of Wheat (HI-1544) under soybean wheat cropping system in Jhabua soil					
7	Less content of micro nutrient- Ammonium Molybdate	Chickpea	Low content of micro nutrient in soil	Assessment of Ammonium Molybdate for enhancing biological nitrogen fixation in chickpea (RVG-204)					
8	Supplementation of nitrogen through Nano Urea	Wheat	High losses of nitrogen fertilizer in crop filed	Assessment and effect of Nano urea liquid fertilizer on Wheat HI 1544 (Based on STV)					
9	Low yield of cauliflower and hollow stem problem	Cauliflower	Less use of micro nutrient and hollow stem problem in cauliflower	Assessment of boron on cauliflower for good flower quality					
10	CBD	Soil fertility	Poor knowledge	Assessment of knowledge &					

			about SHC recommendation	adoption of soil health card bases fertilizer application					
11	ICT	Cereal, pulses, oilseed and horticultural crop.	Farmers not able to come to KVK for training and for consultation related with agriculture and allied sectors. To Seek immediate solution for their problems.	Assessment of virtual meeting and training programme on Google Meet .					
12	Feeding management	LPM (Goat)	Low growth rate	Assessment of mineralized salt lick on growth performance of small ruminants (goat)					
13	Lack of knowledge about Partial TMR	LPM (Cow)	Low milk yield	Assessment of Partial TMR (Total mix Ration)					
14	Feeds and fodder management	LPM (Cow)	Low milk yield in Cows	Assessment of multi-cut fodder (Anant) CSV-33 MF sorghum (20-25 cut)					

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Natural Farming	Wheat	Soybean			Tomato					3
Organic matter		Soybean								1
INM	Maize, Wheat		Chickpea		Cauliflower					4
Varietal										1
CBD					Onion					
ICT										
TOTAL	3	2	1		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
Feeding management	01	01	00	01	00	00	00	03
Lack of knowledge about Partial TMR	01	00	00	00	00	00	00	00
TOTAL	02	01	00	01	00	00	00	03

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Soybean (Soil Science – Kharif 2023)	
Title of on farm trial	Assessment of Zero Budget natural farming on the yield and economics of Soybean JS 2098 under soybean wheat cropping system in Jhabua District	
Problem diagnosed	High cost of input, less availability of irrigation water and low organic carbon in soil	
Farmers' Practices	Farmers practice (0:20:50:0:0:: OC:N:P:K:S)	
Details of technologies selectedfor assessment	T1	Recommended Practice: (5000:20:60:40:20::OC:N:P:K:S)
	T2	Use of Natural farming product – Beejamrat, Jivamrit, Ghanamrat, Dasparni urk, Neemastra and Bhrahmastra etc.)
Source of technology	Subhash Palekar	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Rs. 10000 / trial	
Critical input	Plastic drum with need of preparing materials for preparation of natural products.	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Growth, seed Yield, Number of pods/plant, plant height	

OFT-2

Crop / Enterprise	Maize (Rashi)	
Title of on farm trial	Assessment and effect of Nano urea liquid fertilizer on Maize (Based on STV)	
Problem diagnosed	High losses of nitrogen fertilizer in crop filed	
Farmers' Practices	Supplementation of nitrogen through Nano Urea	
Details of technologies selectedfor assessment	Farmers practice (100:60:0::N:P:K)	
	T2 : Recommended Practice: (5000:120:60:40::OC:N:P:K)	
	T3 : Recommended Practice with nitrogen given through nano urea	
Source of technology	IFFCO	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Rs. 3000 per trial	
Critical input	Seed, Nano urea, fungicide for seed treatment	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Growth, seed Yield, Number of cobs per plant	

OFT-3

Crop / Enterprise	Soybean (JS-2098)	
Title of on farm trial	Assessment of organic and natural farming with reference to ridge bed system of farming.	
Problem diagnosed	Low content of organic carbon in soil	
Farmers' Practices	T1 : Farmers practice (1000:20:40:0:: OC:N:P:K)	
Details of technologies selectedfor assessment	T2 : Organic farming- 100% Vermi-compost + bio-fertilizer	

	T3 : Natural farming practice
Source of technology	IISS
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs. 3500 per trial
Critical input	Seed, Vermi-compost, bio-fertilizer
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Growth, seed Yield, Number pods per plant, no. of branches per plant

OFT-4

Crop / Enterprise	Tomato
Title of on farm trial	Assessment and effect of bio treatment techniques of seedling to control of Fusarium wilt incidence in tomato
Problem diagnosed	High infestation of Fusarium wilt in tomato
Farmers' Practices	T1: Farmers practice – seed treated with carbendazim + mencozeb @ 3 g/kg
Details of technologies selectedfor assessment	T2 : Seed treated with Beejamrat & spray of Jivamrit, Dasparni urk, Neemastra and Bhrahmastra) T3 : -
Source of technology	Subhash Palekar
Plot size	0.2 ha
No. of farmers	05
Total cost	Rs. 1500 / trial
Critical input	Plastic drum with need of preparing materials for preparation of natural products.
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Growth, fruit Yield, effected plants/ squire meter

OFT-5

Crop / Enterprise	Onion
Title of on farm trial	Assessment of Kharif onion variety Agrifound red
Problem diagnosed	Local varieties
Farmers' Practices	T1 – Farmers Practice – Old variety (local)
Details of technologies selectedfor assessment	T2 – Variety -Agrifound dark Red T3 : -
Source of technology	NHRDF
Plot size	0.2 ha
No. of farmers	05
Total cost	Rs. 2000/ trial
Critical input	Seed, fertilizer

Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Bulb size, Yield

OFT-6

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Zero Budget natural farming on the yield and economics of Wheat (HI-1544) under soybean wheat cropping system in Jhabua soil
Problem diagnosed	High cost of input, less availability of irrigation water and low organic carbon in soil
Farmers' Practices	T1 : Farmers practice (120:50:0::N:P:K)
Details of technologies selectedfor assessment	T2 : Recommended Practice: (120:60:40:5 :: N:P:K:Zn)
	T3 : Use of Natural farming product – Beejamrat, Jivamrit, Ghanamrat, Dasparni urk, Neemastra and Bhrahmastra etc.)
Source of technology	Subhash Palekar
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs. 3000 / trial
Critical input	Plastic drum with need of preparing materials for preparation of natural products.
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Growth, Seed Yield, Number of pods/plant, Plant height

OFT-7

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Ammonium Molybdate for enhancing biological nitrogen fixation in chickpea (RVG-204)
Problem diagnosed	Low content of micro nutrient in soil
Farmers' Practices	T1 : Farmers practice (20:40:0:: C:N:P:K)
Details of technologies selectedfor assessment	T2 : Recommended practice (20:60:40:: N:P:K)+ seed treatment with Bio fertilizer
	T3 : (20:60:40::N:P:K) & seed treated with Bio fertilizer & Ammonium Molybdate – 10g/kg of seed
Source of technology	IISS
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs. 2000 / trial
Critical input	Seed, bio-fertilizer & Ammonium Molybdate
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Growth, seed Yield, Number pods per plant, no. of branches per plant

OFT-8

Crop / Enterprise	Wheat
Title of on farm trial	Assessment and effect of Nano urea liquid fertilizer on Wheat HI 1544 (Based on STV)

Problem diagnosed	High losses of nitrogen fertilizer in crop field
Farmers' Practices	T1 : Farmers practice (100:60:0::N:P:K)
Details of technologies selected for assessment	T2 : Recommended Practice: (120:60:40::N:P:K) T3 : Recommended Practice with nitrogen given through nano urea
Source of technology	IFFCO
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs. 3000 / trial
Critical input	Seed, Nano urea, fungicide for seed treatment
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Growth, seed Yield, Number of tillers per plant

OFT-9

Crop / Enterprise	Cauliflower
Title of on farm trial	Assessment of boron on cauliflower for good flower quality
Problem diagnosed	Less use of micro nutrient and hollow stem problem in cauliflower
Farmers' Practices	T1 : T1 – Farmers Practice – No use of boron
Details of technologies selected for assessment	T2 : Recommended dose of fertilizer + 2.4 kg/ha Boron T3 : --
Source of technology	IISS
Plot size	0.2 ha
No. of farmers	05
Total cost	Rs. 2000 / trial
Critical input	Seedlings, Boron
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	Flower size and effect of hollow stem problem /square meter, yield

OFT -10

1	Enterprise	LPM (Goat)
2	Title of on-farm trial	Assessment of mineralized salt lick on growth performance of small ruminants
3	Problem diagnosed	Low growth rate
4	Farming situation	NA
5	Production system and thematic area	Feeding management
6	Farmers' practices	Mineral lick not using
7	Details of technologies selected for assessment/refinement Treatments	T-1 mineralized salt lick @ 1 lick/2 goats for two months T-2 Mineral mixture for small ruminants @15gm/animal/day FP- Farmers practice Not using any mineral mixture for small ruminants (Goat)

8	Source of technology	TANUVAS, 2020
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Salt lick
12	Cost of input	Rs. 250/ farmers/trial
13	Total cost	Rs. 2500/-
14	Performance indicators Observation to be recorded Growth rate of goat Economics : B: C ratio Social: Farmers reaction & Feedback	Growth rate of goat

OFT -11

1	Enterprise	LPM (Cow)
2	Title of on-farm trial	Assessment of Partial TMR (Total mix Ration)
3	Problem diagnosed	Low milk yield
4	Farming situation	NA
5	Production system and thematic area	Feeding management
6	Farmers' practices	Lack of knowledge about Partial TMR
7	Details of technologies selected for assessment/refinement Treatments	In Partial TMR, chopped green fodder mixed with cereals, cereal by-products, Cake , minerals, in order to provide balanced ration to the dairy animals. T1- Partial TMR T2- Only grains and dry fodder, Limited Grains FP- No TMR or Balance ration
8	Source of technology	NDDB, 2020
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Mineral mixture-
12	Cost of input	Rs. 200/ farmers/trial
13	Total cost	Rs. 2000/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk Yields, Body Condition Score (cow)

OFT -12

1	Enterprise	LPM (Cow)
2	Title of on-farm trial	Assessment of multi-cut fodder (Anant) CSV-33 MF sorghum (20-25 cut)
3	Problem diagnosed	Low milk yield in Cows
4	Farming situation	NA
5	Production system and thematic area	Feeds and fodder management
6	Farmers' practices	No

7	Details of technologies selected for assessment/refinement Treatments	T1- Use Of Multicut Shorghum T2- Shorghum FP- No use of greens
8	Source of technology	IGFRI 2022 and CSF Raichur
9	No. of animals	10
10	No. of farmers	10
11	Critical input	HAC
12	Cost of input	Rs. 590/ farmers/trial
13	Total cost	Rs. 5900/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk Yield, Reproductive efficiency (Cow)

OFT -13

1	Enterprise	LPM (Poultry)
2	Title of on-farm trial	Assessment of rearing kadaknath on extensive system v/s intensive system
3	Problem diagnosed	Growth, mortality and reproductive performance
4	Farming situation	NA
5	Production system and thematic area	Rearing management of kadaknath birds
6	Farmers' practices	Back yard poultry with limited feeding.
7	Details of technologies selected for assessment/refinement Treatments	T1- Back yard poultry with limited feeding. T2- rearing of kadaknath on deep litter system. FP- rearing of kadaknath in open system with balance feeding.
8	Source of technology	CARI 2018
9	No. of animals	50
10	No. of farmers	10
11	Critical input	Balance poultry feed, kadaknath chicks and brooding material.
12	Cost of input	Rs. 4000/ farmers/trial
13	Total cost	Rs. 40000/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Growth, mortality and reproductive performance

Information about Extension OFT: 1

Title	Assessment of knowledge & adoption of soil health card bases fertilizer application
Season & Year	Round the year
Problem identified	Poor knowledge about SHC recommendation

Thematic Area	CBD
Farming situation	irrigated
Name of Technology Intervention under study	Knowledge about SHC recommendation
Farmers Practice	T1 – Farmers Practice – Farmers are not using fertilizers as per SHC recommendation
Details of technologies selected for assessment/refinement Treatments	T2 – To find out the awareness, knowledge and adoption of farmers toward soil health card practices.
No. of replication (Farmers)	200

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Extension OFT: 2

Title	Assessment of virtual meeting and training programme on Google Meet .
Season & Year	Round the year
Problem identified	Farmers not able to come to KVK for training and for consultation related with agriculture and allied sectors. To Seek immediate solution for their problems.
Thematic Area	ICT
Farming situation	irrigated
Name of Technology Intervention under study	Knowledge about SHC recommendation
Farmers Practice	T1 – Farmers Practice - Physically (Offline & self)
Details of technologies selected for assessment/refinement Treatments	T2 – Virtual Google meet
No. of replication (Farmers)	No. of farmers – 25, No. of trails : 20

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

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

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean – wheat	Agriculture waste (Residue) management	Bio-waste decomposer for quality organic product to enhance soil health	Bio-waste decomposer	Round the year 2023-24	0.4	100	Rate of decomposition and status of nutrients contents in soil (OC, N, P, K, S & micro nutrients).
2	Green gram cv. ZM-3	INM	Use of fertilizer 20:60:20:20 kg NPKS/ha + Ammo. Molybdate @ 1gm + Rhizobium + PSB @ 5 gm/kg seed	Molybdate , Sulphur, Rhizobium & PSB culture	Kharif 2023-24	0.4	10	No. of branches/plants, No. of nodules/ plants, yield
3	Potato	INM	Use of Vermicompost 2.5 t /ha + 75% RDF (NPK @ 150:80:80 kg/ha) in potato	Vermi-compost	Rabi 2023-24	0.2	10	No. of tubers/plants, yield/ha
4	Mustard	INM	No. of branch/plants, no. of pods/plant, yield/plant, yield	Sulphur	Rabi 2023-24	0.4	10	No. of branch/plants, no. of pods/plant, yield/plant, yield
5	Cucumber	INM & Varietal	Use of compost 2.5 t /ha + 75% RDF (NPK @ 150:75:75kg/ha) in Cucumber cv. Hiltan	Seed cv. Hiltan, Soluble NPK fertilizer	Kharif 2023-24	0.2	10	No. of fruits/plants, yield
6	Potato cv. Chipsona- 3	Varietal	Demonstration on New variety of potato - chipsona -3	Potato seed – chipsona- 3	Rabi 2023-24	0.2	10	No. of tubers/plants, yield/plant, yield
7	Soybean	TSP- ICM	Full package of practice of soybean	Weedicide, fungicide, biofertilizer, insecticide	Kharif 2023-24	0.4	15	No. of weed/sqm , Plant height, no of branches, no of pods/plant, yield/plant, yield
8	Maize	TSP- ICM	Full package of practice of maize	F1 Hybrid Seed, weedicide, insecticide	Kharif 2023-24	0.4	15	No of weed/sqm , Plant height, no of cobs/plant, yield/plant, yield
9	Black gram	TSP- ICM	Full package of practice of Black gram	Seed- Indra urd-1, Weedicide, fungicide, biofertilizer, insecticide	Kharif 2023-24	0.4	15	No of weed/sqm , Plant height, no of branches, no of pods/plant, yield/plant, yield
10.	Cotton	TSP- ICM	Full package of practice of Cotton	Seed, insecticide, soluble NPK fertilizer	Kharif 2023-24	0.4	15	Plant height, no of branches/ plant, No of bolls/plant, yield
11.	Vegetables	TSP- Promotion of vegetable production	Promotion of vegetable production	Vegetable seed, Soluble NPK fertilizer, insecticide, pesticide	Kharif 2023-24	0.2	20	Promotional demonstration to vegetable production and kitchen gardening.
12	Wheat	TSP- ICM	Full package of practice of Wheat	Seed cv. HI-8759, weedicide, soluble NPK fertilizer, fungicide for seed treatment.	Rabi 2023-24	0.4	15	Plant height, no of weeds/sqm, no of tillers/plant, yield/plant, yield
13	Chickpea	TSP- ICM	Full package of practice of	Seed cv. RVG-204,	Rabi	0.4	15	Plant height, no of branches/

			Chickpea	insecticide, bio-fertilizer, fungicide for seed treatment	2023-24			plant, yield/plant, yield
14.	Mustard	TSP- ICM	Full package of practice of Mustard	Seed cv. NRCDR-2, insecticide, sulphur	Rabi 2023-24	0.4	15	Plant height, no of branches/ plant, yield/plant, yield
15.	Vegetables	TSP- Promotion of vegetable production	Promotion of vegetable production	Vegetable seed, Soluble NPK fertilizer, insecticide, pesticide	Rabi 2023-24	0.2	20	Promotional demonstration to vegetable production and kitchen gardening.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	14		180
2	Farmers Training	30		360
3	Media coverage	40		Mass
4	Training for extension functionaries	04		100

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Poultry	Kadakhnath	10	50	Ecto- Parasitocidal drugs	Growth rate, Mortality rate, Morbidity rate	Growth rate, Mortality rate, Morbidity rate	Growth rate, Mortality rate, Morbidity rate
Goat	All bread	10	10	Combination of drugs (De-wormer, anti-bloat, anti-diarrheal drugs and mineral mixture)	Mortality rate	Mortality rate	Mortality rate
Goat	All bread	10	10	Area Specific Mineral Mixture (ASMM)	Body weight gain, mortality rate, morbidity rate	Body weight gain, mortality rate, morbidity rate	Body weight gain, mortality rate, morbidity rate

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

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

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

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	16		610
2	Farmers Training	16		580
3	Media coverage	32		Mass
4	Training for extension functionaries	-	-	-

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
Total	2					50	15	65	65
VIII Fisheries									
Integrated fish farming									
Total									
IX Production of Inputs at site									
Vermi-compost production	2	1				50	15	65	65
Organic manures production									
Total									
X Capacity Building and Group Dynamics									
Leadership development	2	1				50	15	65	65
Group dynamics	1	1				25	5	30	30
Formation and Management of SHGs	2	1				50	15	65	65
Mobilization of social capital									
Entrepreneurial development of farmers/youths	1	1				25	5	30	30
WTO and IPR issues									
Total	6					150	40	190	190
XI Agro-forestry									
Total									
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production									
Bee-keeping									
Seed production	1	2				25	5	30	30
Planting material production	1	2				25	5	30	30
Vermi-culture	3	2				75	20	95	95
Value addition									
Sheep and goat rearing									
Para extension workers									
TOTAL	5					125	30	155	155
(C) Extension Personnel									
Productivity enhancement in field crops									
Integrated Pest Management									
Integrated Nutrient management	2	2				25	5	30	30
Protected cultivation technology	1	2				25	5	30	30
Group Dynamics and farmers organization	1	2				25	5	30	30
Capacity building for ICT application	1	2				25	5	30	30
Livestock feed and fodder production	2	2				40	10	50	50
Production and use of organic inputs	1	2				25	5	30	30
Gender mainstreaming through SHGs									
Any other (Pl. Specify)									
TOTAL	8					165	35	200	200

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Cropping Systems									
Crop Diversification	1	1				25	10	35	35
Integrated Farming	1	1				25	10	35	35
Water management									
Seed production									
Nursery management	1	1				25	10	35	35
Integrated Crop Management	2	1				50	20	70	70
Fodder production									
Production of organic inputs	2	1				50	20	70	70
Total	7					175	70	245	245
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1				25	10	35	35
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	1	1				25	10	35	35
b) Fruits									
Cultivation of Fruit	1	1				25	10	35	35
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops	2	1				50	20	70	70
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	3	1				75	30	105	105
Soil and Water Conservation	2	1				50	20	70	70
Integrated Nutrient Management	3	1				75	30	105	105
Production and use of organic inputs	2	1				50	20	70	70
Management of Problematic soils									
Micro nutrient deficiency in crops	1	1				25	10	35	35
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management	05	01				125	25	150	150
Poultry Management	05	01				125	25	150	150
Disease Management	05	01				125	25	150	150
Feed management	02	01				125	25	150	150
Production of quality animal products	05	01				125	25	150	150

1. On Campus

[illegible]

Plant Protection		IPM in kharif and rabi crop	2	1			50	20	70	70
Agriculture Extension (Capacity Building and Group Dynamics)										
	SHGs	SHGS formation and management	2	1			50	20	70	70
	IT	Communication skill development	2	1						
		Leadership development and group dynamics	2	1			50	20	70	70
	Value addition	Value addition in all crops	2	1			50	20	70	70
Soil Science	INM	INM in Kharif crop	2	1			50	20	70	70
	INM	INM in Rabi crops	2	1			50	20	70	70
	Natural farming	Natural farming technique and preparation of natural products	3	1			75	30	105	105
	Bio fertilizer	Application of bio-fertilizer in crops	2	1			50	20	70	70
	SHCs	SHCs based fertilizer application	2	1			50	20	70	70
	Soil Sampling	Soil Sampling technique	2	1			50	20	70	70

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										
	Kharif crop production	Kharif crop production technology	1				25	10	35	35
		Rabi crop production technology	1				25	10	35	35
Horticulture										
	Nursery management	Nursery preparation & management	2				50	20	70	70
	Vegetable production	Vegetable production technology	2				50	20	70	70
Livestock production										
		Silage feeding and their preparations	01				20	2	25	25
		Azolla Production technique	01				20	2	25	25
		Hydroponics technique	01				20	2	25	25
		Round the year fodder production	01				20	2	25	25
		Ration balancing	01				20	2	25	25
		Viral disease of animals	01				20	2	25	25
		Bacterial disease of animals	01				20	2	25	25
		Parasitic infestation and their	01				20	2	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	
		remedy								
		Vaccination and deworming	01				20	2	25	25
		Mastitis management	01				20	2	25	25
		Disease of poultry and their recovery	01				20	2	25	25
		ITK Practices	01				20	2	25	25
		Silage feeding and their preparations	01				20	2	25	25
		Azolla Production technique	01				20	2	25	25
		Hydroponics technique	01				20	2	25	25
		Round the year fodder production	01				20	2	25	25
		Ration balancing	01				20	2	25	25
		Viral disease of animals	01				20	2	25	25
		Bacterial disease of animals	01				20	2	25	25
Home Science										
Plant Protection		IPM in kharif and rabi crop	2	1			50	20	70	70
Agriculture Extension (Capacity Building and Group Dynamics)										
	SHGs	SHGS formation and management	2	1			50	20	70	70
	IT	Communication skill development	2	1						
		Leadership development and group dynamics	2	1			50	20	70	70
	Value addition	Value addition in all crops	2	1			50	20	70	70
Soil Science										
	INM	INM in Kharif crop	2	1			50	20	70	70
	INM	INM in Rabi crops	2	1			50	20	70	70
	Natural farming	Natural farming technique and preparation of natural products	2	1			50	20	70	70
	Bio fertilizer	Application of bio-fertilizer in crops	2	1			50	20	70	70
	SHCs	SHCs based fertilizer application	2	1			50	20	70	70
	Soil Sampling	Soil Sampling technique	2	1			50	20	70	70

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HI 87-69	160
	Wheat	HI 1544	155
OILSEEDS	Soybean	Raj soya- 18	135
PULSES	Chick pear	RVG – 204	40
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Tiwan 786	3000
SPICES			
VEGETABLES	Tomato	Hy.	25000
	Chilli	Hy	25000
	Cabbage	Hy	10000
	Caspsicum	Hy	25000
	Brinjal	Hy	10000
	Cauliflower	Hy	10000
FOREST SPECIES	Surajana	NH 7	2000
ORNAMENTAL CROPS	Marigold	Hy	5000
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	Iseania fotida		600 worms and 60000 kg
2	NADEP			20000 kg
3				
BIO PESTICIDES				
1	Dasparni arkl			1000 lit.
2	Pesticides			1000 lit
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Desi and cross bred	Gir and HF Cross	08	40 kg/day
SHEEP AND GOAT	Goat	Barbari	20	16 Kids/Year
POULTRY				
FISHERIES				
Others (Specify)				

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

Date of start	Periodicity	Number of copies to be published
Jan to Dec. quarterly	quarterly	1000 per quarter

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD/ You tube	Kadaknath and hatchery management	01
2	DVD/You tube	Horticulture crop production technique	01
3	DVD/You tube	Vermi compost production	01

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 farmer's/farm women	
2	Rural Youth	Vermi compost production
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	Sutrethi	Thandla	40
2	Gopal pura	Petlawad	45
3	Mahankot	Petlawad	40
4	Sajelimaji sath	Meghnagar	30
5	Narshinghpura	Meghnagar	30
6	Hatyadeli	Meghnagar	20
7	Parwaliya	Thandla	40
8	Manpura	Jhabua	15
9	Bhuradabara	Rama	15
10	Chhapari	Rama	20
11	Bhodli	Ranapur	25
12	Ban	Ranapur	25
13	Tandi	Ranapur	30
14	Bhurimati	Ranapur	30
15	Ghatiya	Jhabua	15
16	Naranda	Meghnagar	30

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2006

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Kel plus nitrogen analyzer	1	Working
2	Flame Photometer	1	Working
3	Spectro photo meter	1	Repairable
4	pH & EC meter	2	Working
5	Mrada parikshak	2	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	2000	2000	20	
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Sara Sewa Sansthan, child fund, jhabua kisan utpadak samuh, NABARD	

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No-- Yes

Name of Programme	Nature of linkage
NFSM Cotton	Through FLDs & Farmers training

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
ARYA	Unit establishment, off & On campus training programme, farmers fair, field day	200
NICRA		

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 5000 Sq m each season

Crop	Season	Variety	Particulars /details	Area (Sq m)
Wheat	Rabi	22	-	
Chickpea	Rabi	18		
Soybean	Kharif	24		
Black gram	Kharif	21		
Green gram	Kharif	21		

Details of Demonstration Unit at KVK

<i>Demonstration Unit</i>	<i>Particulars /details</i>	<i>Area (Sq m)</i>	
<i>Barbari Goat Unit</i>			
<i>Kadaknath Unit</i>			
<i>Dairy Unit</i>			
<i>Vermi compost unit</i>			
<i>Azolla unit</i>			
<i>Natural Farming Unit</i>			
<i>Poly House unit</i>			
<i>Orchard in drip irrigation</i>			

ANNUAL ACTION PLAN 2023

KVK- KHANDWA

Year of sanction:...1995

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr.D.K.Vani	07334067115	9424095701	kvk.khandwa@rvskvv.net vanidk66@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Dharmendra Kumar Vani	Principle Scientist	Agril. Engg	188200	19.6.1996	5.2.2011	94240 95701	vanidk66@gmail.com	
2	Subject Matter Specialist	Dr. Yogendra Kumar Shukla	Scientist	Soil Sc.	110400	2.6.2007	30.7.2008	99263 12029	ykskvk@gmail.com	
3	Subject Matter Specialist	Dr.Sanjay Kumar	Scientist	Agronomy	101100	8.3.2007	7.11.2022	9329435110	sanjaykumar5031@gmail.com	
4	Subject Matter Specialist	Dr. Ashish Bobade	Scientist	Plant Protection	101100	16.4.2007	29.6.2016	94251 57959	ashbob9@rediffmail.com	
5	Subject Matter Specialist	Sh. Subhash Rawat (On Ph.D. study Leave)	Scientist	Agril. Extn.	70900	1.9.2014	1.9.2014	96853 20022	rawatext80@rediffmail.com	
6	Subject Matter Specialist	Vacant		-	-		-	-	-	
7	Subject Matter Specialist	Vacant		-	-		-	-	-	
8	Programme Assistant	Smt. Rashmi Shukla	Sr.Tech. Officer	Home Sc.	71100	3.3.2007	06.8.2008	94066 41130	rashmishukla_khw@rediffmail.com	
9	Computer Programmer / Programme Assistant	Dr. Mukesh Gupta	Sr.Tech. Officer	Agri. Eco.	71100	24.1.2007	24.1.2007	98265 03410	gmukesh643@gmail.com	
10	Farm Manager	Sh. Praveen Dhaske	Tech. Officer	Computer	68000	25.03.2008	25.3.2008	98266 65659	praveendhaske@gmail.com	
11	Assistant	Sh. Amit Singh	Office Superintendent/ Accountant		43300	8.12.2016	19.3.2021	8936934740	amitjadon0604@gmail.com	
12	Jr. Stenographer/Computer Operator	Sh. Narendra Singh Bhuriya	Assistant - III		24700	4.12.2000	9.9.2015	89596 63179	Bhuriyanarendra364@gmail.com	
13	Driver	Sh. Kunwar Bahadur Yadav	Driver		32100	28.7.2008	29.8.2014	92007 04138		
14	Driver	Sh. Tulsiram Raikwar	Driver		32100	07.07.08	07.7.08	62640 23016		
15	Supporting staff	Vacant								
16	Supporting staff	Vacant								

1.3 Total land with KVK (in ha): 20.28 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.70
2	Under Demonstration Units	4.00
3	Under Crops	5.00
4	Orchard/Agro-forestry	5.80
5	Others (specify)	3.78
Total		20.28

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.) in Lakhs	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2010	497.17	39.81			
2	Farmers Hostel	ICAR	2012	305.00	24.66			
3	Staff Quarters (6)	ICAR	2008	4G+2H	-			
4	Demonstration Units (2)	ICAR RKVY	2015 2017					
5	Fencing			Nil				
6	Rain Water harvesting system	ICAR	2008	2800	5.01227			
7	Threshing floor			Nil				
8	Farm godown			Nil				

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle	2006	46222	32486	Working
Bolero(Jeep)	2011	499456	150098	Proposed for writeoff
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2015	1,00,000	Good
Xerox Machine	2013	50,000	Good
Generator	2016	50,000	Good
Computer, Laser Printer	6 computers,	40,000 to 80,000	Good

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

Sl. No.	Tentative Date
1	15.5.2023
2	15.9.2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1	Comprise block Khandwa, Pandhana, Punasa, Chhegaonmakhan Geographical area 3,92,963 ha (68%)
2	AES – 2	Comprise block Khalwa, Baldi, Harsud Geographical area 1,86,711 ha (32%)

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Soils- Medium Black, Major crops- Cotton, soybean, Wheat, Gram, Chilli, Onion, Tomato
2	AES - 2	Soils- Medium to light Black, Major crops- Cotton, soybean, Wheat, Gram, minor millets, vegetables

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
Medium black, heavy black soil conducive for vegetables and spices.	Imbalanced use of chemical fertilizer.	Scope for medicinal plantation for conservation of forest and development of industries.	Heavy soil erosion and deforestation.
Favorable climate for Mango, Litchi, Jack fruit, custard apple, Guava, Citrus, Anola, Pomegranate and floriculture.	Lack of awareness in identification of crop pests and diseases.	Cultivation of off-season vegetable due to favorable climatic condition.	Degradation of natural resources.
Large scale cultivation of Onion, Chilli and colocassia	Non adoption of seed treatment, green manure.	Scope for extension of NGO network	Emigration of labour for better livelihood.
Skilled farmers in vegetable cultivation	Lack of crop diversification in upland	Constitution of SHG federation at district level	Loss of Bio-diversity.
Easy availability of workforce	Lack of field channels and irrigation water	Expansion of area under lime, mango, jackfruit, custard apple, Anola and pomegranate.	Decreasing trend in use of organic manure.
Existence of woman SHGs	Poor soil and water management.	Scope for Agro. Based/Food processing industry for value addition.	

AES-2 (name)

Strength	Weakness	Opportunities	Threats
Shallow black and light black soil conducive for plantation crops.	Lack of awareness of management of crop pests and diseases.	Scope for medicinal plantation for conservation of forest and development of industries.	Menace by elephants.
Favorable climate for custard apple, Guava, Citrus, Anola, Pomegranate and floriculture.	Imbalanced use of chemical fertilizer.	Scope for Agro. Based/Food processing industry for value addition.	Degradation of natural resources.
Enthusiastic farmers in vegetable cultivation	Poor adoption of seed treatment, green manure.	Scope for extension of NGO network	Indiscriminate use of pesticide causing ecological imbalance.
Existence of woman SHGs	Lack of field channels and irrigation water	Constitution of SHG federation at district level	Emigration of labour for better livelihood.
Large scale cultivation of Cotton, Maize and summer moong	Poor post harvest technology	Cultivation of off-season vegetable due to favorable climatic condition.	Decreasing trend in use of organic manure.

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	775.616
Forest	305.323
Waste Land	14.289
Other than cultivated area	-
Cultivable waste and alkaline land	-
Pastures	-
Bushes	-
Current Fallow	-
Other Fallow	-
Agricultural Land	385.835
Area Sown	328.498
Kharif	328.498
Rabi	286.876
Zaid	-
Cropping Intensity	184%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	39440
2	Well	112686
3	Tube well	30870
4	Ponds	7740
5	Others	15924

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Medium Black		392.963 (68%)
2	Light Black		186.711 (32%)

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	211891	1428150	6.74
2	Cotton	51092	434280	8.50
3	Maize	30206	528610	17.50
4	Blackgram	5354	22330	4.17
5	Pigeonpea	2713	19400	7.15
6	Wheat	208024	6916800	33.25
7	Chickpea	58748	857720	14.60

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	1.0	26.9	11.2
Feb, 22	0.0	32.0	12.9
Mar, 22	5.5	38.2	20.3
Apr, 22	0.0	43.1	25.5
May, 22	0.0	42.7	29.1
Jun, 22	129.0	38.4	26.9
July, 2022	416.5	30.6	24.4
Aug., 2022	109.0	31.6	24.1
Sept., 2022	273.0	33.5	23.7
Oct. 2022	111.5	33.7	19.5
Nov. 2022	0.0	32.1	13.0
Dec. 2022	11.0	29.9	14.2

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	342999	 MT.	 kg
Buffalo	110104	 MT.	 kg
Sheep			
Crossbred/ Indigenous	65	 MT wool	 kg
Goats	142982	 MT	 kg
Pigs Crossbred/ Indigenous		---	---
Rabbits			
Poultry			
Hens	99574	 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	Khandwa	Khandwa	Bavdiyakaji, Ladanpur, Lohari	soybean, Onion wheat, chickpea	Poor soil health, water scarcity	Organic inputs and conservation agriculture
2	Khandwa	Khandwa	Rampura, Bediyav	soybean, Cotton, wheat, chickpea	Poor soil health, water scarcity	Organic inputs and conservation agriculture
3	Khandwa	Chhegaonmakhan	Sulyakhedi	Maize, soybean, wheat, chickpea	Poor soil health, water scarcity	Organic inputs and conservation agriculture

Priority / Thrust areas

S. No.	Particulars
1.	Natural Farming awareness and practices
2.	Nutrient management in Cotton, Soybean, Wheat, Gram, Onion through balance use of fertilizers (INM)
3	Replacement of traditional varieties of Soybean, wheat, Gram and Maize (Varietal Evaluation)
4	Insect-pest management in Cotton, Chill, Soybean and Gram (IPM)
5	Weed management in Soybean, Wheat and Onion (weed management)
6	Water management in Soybean through Raised bed method of sowing (RCT)
7	Nursery management in vegetable production (Nursery management)
8	The importance of balance diet in girls (Nutrition management)
9	Feeding management of dairy cattle and buffaloes through balance feeding and green fodder
10	Reproductive management of dairy cattle and buffaloes

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	168	13+3 = 16	160+75= 235

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
79	1869	226	3098

Seed Production (Qtl.)	Planting material (Nos.)
50	3000

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		2	1		1					
Weed management	1	1								
Varietal	2									
IPM	1	1								
IDM			1	1						
Value addition				1						
Nutritional security	1				2					
TOTAL	5	4	2	2	3					16

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

1. Detailed Information about OFT: 9.

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Nano DAP in soybean
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to no use of Nano DAP
Thematic area:	SFM
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-	T2: 100% NPK 20:60:20
T3- Recommended Practice-	100 % N (through urea) + 50% P (through DAP or SSP) + seed treatment of Nano DAP @ 5 ml/Kg seed at time of sowing + First spray with Nano DAP @ 4 ml/litre of water at 30 days after germination and second spray before one week of flowering stage or 45 days after seed germination
Performance indicators observation	No of pods/plant, Plant height, Yield, B:C ratio, farmers reaction
Date of sowing:	25 June 2023
Date of harvesting:	30 Sep, 2023
Source of technology:	IFFCO
Characteristics of technology:	Nanoparticle mineral fertilizers may create a continuous balance and help in reduction in the use of chemical fertilizers and creation of a better environment for nutrient absorption in the plant.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	
Feedback	

2. Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of nutrient management through organic inputs in Soybean
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizers
Thematic area:	SFM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Use of 125 Kg DAP/ha only
T2 –Recommended Practice-	NPK @20:60:40 Kg/ha +20 Kg S + 5 Kg Zn/ha + Use of FYM and Biofertilizers
T3- Recommended Practice-	Natural Farming including all components like use of jeevamrit @ 600 litre /ha + hanjeevamrit @ 250 Kg/ha + Beejamrit + Vapsa+ vegetative mulching
Performance indicators (Observation)	No of pods/plant, Plant height, Yield, B:C ratio, farmers reaction
Date of sowing:	25, June 2023
Date of harvesting:	30 Sep.2023
Source of technology:	IISS
Characteristics of technology:	Natural farming organic inputs create better environment around the rhizosphere of the plants and help in absorption of the nutrition.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

3. Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Nano DAP in Chickpea
Year/Season:	Rabi, 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to no use of Nano DAP
Thematic area:	SFM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinmt):	Assessment
T1 – Farmers Practice-	Use of chemical fertilizers (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 or SSP) + seed treatment of Nano DAP @ 5 ml/Kg seed at time of sowing + First spray with Nano DAP @ 2 ml/litre of water at 25-30 days after germination
Performance indicators (Observation)	No of pods/plant, Plant height, Yield, B:C ratio, farmers reaction
Date of sowing:	10 October 2023
Date of harvesting:	8 feb, 2024
Source of technology:	IFFCO
Characteristics of technology:	Nanoparticle mineral fertilizers may create a continuous balance and help in reduction in the use of chemical fertilizers and creation of a better environment for nutrient absorption in the plant.
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

4. Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of application of Sulphur source in Onion
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance and sub optimal dose of sulphur
Thematic area:	SFM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Use of Use of SSP @ @300 Kg /ha
T2 –Recommended Practice-	100% NPK 100:60:80 Kg/ha + use of 45 Kg/ha S bentonite sulphur
T3- Recommended Practice-	100% NPK 100:60:80 Kg/ha + use of 45 Kg/ha S through W.D.G
Performance indicators (Observations)	No of pods/plant, Plant height, Yield, B:C ratio, farmers reaction
Date of sowing:	10 Nov, 2023
Date of harvesting:	2, March 2024
Source of technology:	IISS, Bhopal
Characteristics of technology:	Use of optimal dose of sulphur can enhance the yield up to 20%
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

5. Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of herbicide for weed management in soybean
Year/Season:	2023-24 Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of soybean due to heavy infestation of weeds
Thematic area:	Weed Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Application of Pendimethalin @1000gm/ha as pre emergence at 0-3 DAS
T2 –Recommended Practice-	Application of Imazethapyr + Imazomox @70 gram /ha as Post emergence at 20-25 DAS
Performance indicators (Observations)	Weeds/Meter ² , Weed Control Efficiency (%), Yield (q/ha)
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-DWR, Jabalpur
Characteristics of technology:	Ready-mix herbicide for efficient management of broad leaved weeds
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

6. Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of herbicide for weed management in wheat
Year/Season:	2023-24 Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to heavy infestation of grassy and broad leaved weeds
Thematic area:	Weed Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Application of 2,4-D @500 gm/ha as post emergence at 30-35 DAS
T2 –Recommended Practice-	Application of Sulfosulfuron + metsulfuron @30 +2 gram /ha as Post emergence at 25-30 DAS
T3- Recommended Practice-	-
Performance indicators observation	Weeds/Meter ² , WeedControl Efficiency (%) ,Yield (q/ha)
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-DWR, Jabalpur
Characteristics of technology:	Ready-mix herbicide for efficient management of broad leaved weeds
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

7. Detailed Information about OFT:

Title of on-farm trial:	Assessment of Kodo Small millet crop
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of kodo millets due to old traditional variety seed.
Thematic area:	Crop/Varietal Assessment
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 of kodo
T2 –Recommended Practice-	Improved variety (Jawahar Kodon 137) of Kodo
T3- Recommended Practice-	
Date of sowing:	June-July 2023
Date of harvesting:	Sep-Oct 2023
Source of technology:	JNKVV (2016)
Characteristics of technology:	Jawahar Kodon 137-Medium duration(100-105 days) High yielding variety(26-29 q/ha). Moderate tolerance to drought lodging, shootfly and head smut
Name of Crop/Enterprises:	Kodo Millet crops
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

8. Detailed Information about OFT:

Title of on-farm trial:	Assessment of Kutki Small millet crop (Kutki-4)
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of kodo millets due to old traditional variety seed.
Thematic area:	Crop/Varietal Assessment
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 of kodo
T2 –Recommended Practice-	Improved variety (Jawahar Kutki-4) of Kutki
T3- Recommended Practice-	
Date of sowing:	June-July 2023
Date of harvesting:	Sep-Oct 2023
Source of technology:	JNKVV (2016)
Characteristics of technology:	Jawahar Kutki-4 duration (75-80 days) yield (13-15 q/ha). Moderate tolerance to drought lodging, shootfly and head smut
Name of Crop/Enterprises:	Kutki Millet crops
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

9. Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of defoliator management in soybean
Year/Season:	Kharif-2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to attack of defoliator in soybean
Thematic area:	Integrated Pest Management
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Quinalphos/Profenofos @ 1.5 lit/ha for defoliator control.
T2 –Recommended Practice-	Spray of <i>Beauveria bassiana</i> @ 5 ml/lit + Use of Bird Percher @ 50 /ha.
T3- Recommended Practice-	Spray of Rynaxypyr 20 SC @ 100 ml/ha 7 days before flowering.
Performance indicators:	Insect/ M row length (Nos.) Yield (q/ ha), Net return, B:C ratio
Date of sowing:	Jun-July 2023
Date of harvesting:	Sep-Oct 2023
Source of technology:	DSR, Indore
Characteristics of technology:	Integrated pest management practices
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

10. Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of anthracnose management in chilli
Year/Season:	Kharif- 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to anthracnose in chilli
Thematic area:	Integrated Disease 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-	Spray of Carbendazim @ 1 gm/lit.
T2 –Recommended Practice-	Spray of <i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i> @ 5 ml/lit.
T3- Recommended Practice-	Spray of Copperoxychloride 50 WP @ 2.5 g/lit at appearance of Die Back disease and repeated spray after 10-15 days of first spray.
Performance indicators:	Disease incidence (%) Yield (q/ ha), Net return, B:C ratio
Date of sowing:	June-July 2023
Date of harvesting:	Nov-Dec 2023
Source of technology:	TNAU, Coimbatore
Characteristics of technology:	Integrated disease management practices
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

11. Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of root aphid management in wheat
Year/Season:	Rabi- 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to root aphid in wheat
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-	Drenching of Chlorpyrifos @ 1250 ml/ha.
T2 –Recommended Practice-	Spray of Thiamethoxam 25 WG @ 100 gm/ha at 25 DAS.
T3- Recommended Practice-	Spray of Imidacloprid 17.8 SL @ 100 ml/ha at 25 DAS.
Performance indicators:	Affected plant/ sq M Yield (q/ ha), Net return, B:C ratio
Date of sowing:	Oct-Nov 2023
Date of harvesting:	Feb-Mar 2024
Source of technology:	IIWBR, Karnal
Characteristics of technology:	Integrated pest management practices
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

12. Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of wilt management in chickpea
Year/Season:	Rabi- 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to attack of wilt in chickpea
Thematic area:	Integrated Disease 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-	Spray of Carbendazim @ 1 g/lit.
T2 –Recommended Practice-	Use of <i>Trichoderma viride</i> @ 2.5 kg/ha with 50 kg FYM.
T3- Recommended Practice-	Use of <i>Pseudomonas fluorescens</i> @ 2.5 kg/ha with 50 kg FYM.
Performance indicators:	Disease incidence (%) Yield (q/ ha), Net return, B:C ratio
Date of sowing:	Oct-Nov 2023
Date of harvesting:	Feb-Mar 2024
Source of technology:	TNAU, Coimbatore
Characteristics of technology:	Integrated Disease Management through bio-control agent and chemicals
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

13. Information about Home Science OFT: 1

Title of on-farm trial:	Mushroom value added products
Year/Season:	Kharif, 2023
Problem diagnosis:	No value addition in mushrooms
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-	No value addition in mushroom
T2 –Recommended Practice-	Value added products (dry powder)
T3 –Recommended Practice-	Value added products badi ,papad,and pickle
Performance indicators Observation to be recorded	BMI and availability of nutrients
Source of technology:	National Research Center for Mushroom (ICAR) sonal 2008
Characteristics of technology:	
Name of Crop/Enterprises:	Mushroom
Farming situation:	
Date of sowing:	
Date of harvesting:	

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

14. Information about Home Science OFT: 2

Title of on-farm trial:	Assessment of green leafy multigrain flour chapatti for improvement of haemoglobin levels in farm women
Year/Season:	Kharif, 2023
Problem diagnosis:	Lack of awareness about nutritious food and poor sanitation and hygiene
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-	Wheat + Jowar+ Besan (1:1:1)+ seasonal green leafy vegetables.
T2 –Recommended Practice-	T2-Wheat +Soya flour+Makki atta(1:1:1)+seasonal green leafy vegetables
T3 –Recommended Practice-	Wheat + Ragi + Besan (1:1:1:) + seasonal green leafy vegetables
Performance indicators Observation to be recorded	BMI and availability of nutrients
Source of technology:	KVK, Jalandhar (2016)
Characteristics of technology:	
Name of Crop/Enterprises:	Cereals and green leafy vegetables
Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

15. Information about Home Science OFT: 3

Title of on-farm trial:	Assessment of management of Anemia Among rural adolescent girl
Year/Season:	Kharif, 2023
Problem diagnosis:	Low iron content in diet, use of traditional diet , lack of knowledge about nutritional foods, prevalence of infectious diseases, poor socio economics conditions.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
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-	Existing dietary pattern
T2 –Recommended Practice-	Iron tablet/day with Existing dietary pattern
T3 –Recommended Practice-	Iron tablet /day+100g roasted groundnuts + 50g jaggry/day with existing dietary pattern
Performance indicators Observation to be recorded	BMI and availability of nutrients
Source of technology:	NIN, Coimbatore
Characteristics of technology:	
Name of Crop/Enterprises:	Iron Rich diet
Farming situation:	
Date of sowing:	

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

16. Information about Home Science OFT: 4

Title of on-farm trial:	Assessment of Acceptability of value added products from millet biscuits
Year/Season:	Kharif, 2023
Problem diagnosis:	Lack of awareness about nutritious food and no value addition in millets
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition and 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-	No value addition in millets
T2 –Recommended Practice-	Wheat +Ragi + Jowar (20+40+40)
T3 –Recommended Practice-	Wheat + Rag i+ Jowar (20+60+20)
Performance indicators Observation to be recorded	Sensory evaluation(9 Hedonic scale),Shelf life, nutrients analysis and BC ratio
Source of technology:	TNAU 2012
Characteristics of technology:	
Name of Crop/Enterprises:	Ragi and jowar
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)

Discipline – **Soil Science**

Sl . No	Crop	Thema tic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer s/ demo	Parameters identified for performance evaluation
1	Cotton	INM	Use of 120:60:40 Kg NPK /ha + 5 t /ha FYM + use of Azatobacter and PSB @ 3 Kg /ha + Use of MgSo4 @ 5 Kg/ha+ use of 5 Kg Zn /ha	Bioferti lizers and MgSO ₄	Kharif ,2023	4.0	10	No of Bolls/plant, yield, B:C ration, farmers reaction and feed back
2	Soybean	SFM	Use of plant growth regulator Sagarika (natural seaweed extract) in Soybean @ 625 ml /ha	Sagarika	Kharif ,2023	4.0	10	No of pods/plant, yield, B:C ratio, farmers reaction and feed back
3	Soybean	SFM	Use of Bioinnoculants Rhizobium and PSB mixed with well decomposed FYM / Vermicompost in 1:25 ratio and incubated at 30% moisture for a week	Biofertli zers	Kharif ,2023	4.0	10	No of pods/plant, yield, B:C ratio, farmers reaction and feed back
4	Cauliflo wer	SFM	Demonstration on Micro nutrient Boron Application of RDF 120:80:60 Kg NPK + Boron @ 10Kg/ha as basal	Boron	Rabi,2 023-24	4.0	10	Yield, Curd Size, B:C ratio, Farmers feed back

			application and @ 0.1 % Boron as foliar spray at the curd initiation					
5	Wheat	SFM	Use of Nano urea @ 4 ml /litre twice as foliar application	Nano urea	Rabi, 2023-24	4.0	10	No of tillers/plant, yield, B:C ratio, farmers reaction and feed back

Discipline – Plant Protection

S I. N o	Crop	Themati c area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer s/ demo	Parameters identified for performance evaluation
6	Cotton	Integrated Pest Management	Management of Pink Ball Worm in Bt-Cotton (Spray of Profenophos 50 EC ai @ 1000 ml/ha, Emamectin Benzoate 5 SG @ 200 gm/ha at 15 days interval)	Profenophos, Emamectin Benzoate	Kharif - 2023	0.40	10	No. of balls infested/ plant, Yield q/ha, Net return, B:C ratio
7	Cotton	Integrated Pest Management through ITK	Management of pests in Cotton by use of Dhatura (About 300 g leaves and unripe fruits of dhatura are crushed and heated with 1 litre water. The filtrate is used as a stock solution. About 300 ml of the stock solution is mixed in 15 litres water (one pump) and sprinkled over the crop. About 7-8 pumps of the dilute solution is required to sprinkle 1 acre field of 3-4 months old cotton crop.)	Dhatura stock solution	Kharif - 2023	0.40	10	No. of insect/ leaf, Yield q/ha, Net return, B:C ratio
8	Onion	Integrated Pest Management	Management of Thrips in Onion (Spray of Lambdacyhalothrin @ 1.0 ml/lit + Use of yellow sticky trap @ 25/ha)	Lambda cyhalothrin	Rabi-2023	0.40	10	No. of thrips/plant, Yield q/ha, Net return, B:C ratio
9	Chickpea	Integrated Pest Management through ITK	Management of Helicoverpa in Chickpea by Neem and Parthenium leaves extract (Neem and Parthenium leaves are taken in equal quantity and dipped in water for 24 hours, after crushing them. The extracted solution @ 20 ml is sprayed in dilution with water in 10 litres water)	Neem and parthenium leaves extract	Rabi-2023	0.40	10	Nos. of Insect/M row length, Yield q/ha, Net return, B:C ratio

Discipline –Home Science

Sl. No.	Crop	Themati c area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demos	Parameters identified for performance evaluation
10	Postic laddu	Nutritional Security	Use of Drumstick leaves powder for making phostic laddu as supplements of nutrients	Postic laddu	Rabi/ 2023		10	BMI and availability of nutrients
11	Fruits and vegetables	Nutritional Security	Nutritional security through Nutritional kitchen garden	Vegetable kit and fruit plants	Round the year/ 2023		30	Per-capita consumption and availability of nutrients
12	Wheat	Value addition	Value addition of wheat dalia making	Dalia of Biofortified variety of Wheat	Round the year/ 2023		20	BMI and availability of nutrients

				HI 86-63Poshan				
13	Wheat	Nutritional security	Bio-fortified variety for nutritional security. (Fe42.1ppm)and Zn(42.8ppm) variety with 12%protein)	(Pusa tejas) HI-8759	Rabi/2023		10	Per-capita consumption and availability of nutrients

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	Aug.,Nov.,Jan, Mar.	150
2	Farmers Training	8	June, Jul Sep.,Oct. Nov.	220
3	Media coverage	6	Jul., Aug., Nov.	Mass
4	Training for extension functionaries	4	Jun,Jul., Oct., Nov.	80

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/ demos	Parameters identified
1	Soybean	ICM	Improved variety with improved cultivation practice	Seed, Seed treatment material like fungicides, biofertilizer, weedicide, pesticide etc.	Kharif-2023	10	25	Yield q/ha, Net return, B:C ratio
2	Pigeonpea	ICM	Improved variety with improved cultivation practice	Seed, Seed treatment material like fungicides, biofertilizer, weedicide, pesticide etc.	Kharif-2023	10	25	Yield q/ha, Net return, B:C ratio
3	Chickpea	ICM	Improved variety with improved cultivation practice	Seed, Seed treatment material like fungicides, biofertilizer, weedicide, pesticide etc.	Rabi-2023-24	10	25	Yield q/ha, Net return, B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Sep, Dec, Feb	150
2	Farmers Training	04	Jun, Oct	100
3	Media coverage	03	Sep, Dec, Feb	Mass
4	Training for extension functionaries	01	Jul, Nov	30

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

Thematic Area	No. of Course s	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand
			Male	Female	Total	Male	Female	Total	Total
VII Plant Protection									
Integrated Pest Management	4	4	32	16	48	32	16	48	96
Integrated Disease Management	2	2	16	8	24	16	8	24	48
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
Total	6	6	48	24	72	48	24	72	144
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	17	30	153	64	217	93	131	224	441
(B) RURAL YOUTH									
Mushroom Production	1	3	10	5	15	10	7		17
Bee-keeping									
Seed production									
Planting material production									
Vermi-culture	1	3	10		10	15		15	25
Value addition									
Sheep and goat rearing									
Para extension workers									
TOTAL	2	6	20	5	25	25	7	15	42
(C) Extension Personnel									
Productivity enhancement in field crops									
Integrated Pest Management	2	2	20	8	28	20	12	32	60
Integrated Nutrient management	2	4	40	0	40	10	0	10	50
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) Natural Farming	2	4	40	0	40	10	0	10	50
Importance of Balance diet for adolescent Girls	1	1	0	20	20	0	10	10	30
Value addition in agricultural prOduce	1	1	0	20	20	0	10	10	30
TOTAL	8	12	100	48	148	40	32	72	220

B) OFF Campus

[illegible]

Fodder production									
Production of organic inputs									
Total	10	5	125	25	150	25	25	50	200
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	2	14	0	14	11	0	11	25
Production and use of organic inputs	1	1	14	0	14	11	0	11	25
Management of Problematic soils									
Micro nutrient deficiency in crops	1	1	14	0	14	11	0	11	25
Nutrient Use Efficiency	1	1	14	0	14	11	0	11	25
Soil and Water Testing	1	2	14	0	14	11	0	11	25
Total	5	7	70	0	70	55	0	55	125
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	3	6	0	45	45	0	40	40	85
Design and development of low/minimum cost diet	1	1	0	10	10	0	20	20	30
Designing and development for high nutrient efficiency diet	1	1	0	10	10	0	20	20	30
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	7	0	22	22	0	40	40	62
Location specific drudgery reduction technologies	1	2	0	10	10	0	20	20	30
Rural Crafts									
Women and child care									
Total	8	17	0	97	97	0	140	140	237
VI Agril. Engineering									
Farm machinery & its maintenance	2	1	20	0	20	20	0	20	40
Installation and maintenance of micro irrigation systems	2	1	20	0	20	20	0	20	40
Protected cultivation	2	1	20	0	20	20	0	20	40
Improved small tools and implements	2	1	20	0	20	20	0	20	40
Repair and maintenance of farm machinery and implements	1	1	10	0	10	10	0	10	20
Small scale processing and value addition	2	1	20	0	20	20	0	20	40
Total	11	6	110	0	110	110	0	110	220
VII Plant Protection									
Integrated Pest Management	4	4	32	16	48	32	16	48	96
Integrated Disease Management	2	2	16	8	24	16	8	24	48
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
Total	6	6	48	24	72	48	24	72	144
VIII Fisheries									

IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics	3	1	40	0	40	20	0	20	60
Formation and Management of SHGs	3	1	40	0	40	20	0	20	60
Mobilization of social capital									
Entrepreneurial development of farmers/youths	3	1	40	0	40	20	0	20	60
WTO and IPR issues	3	1	40	0	40	20	0	20	60
Total	12	4	160	0	160	80	0	80	240
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL	52	45	513	146	659	318	189	507	1166

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Durat ion in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
	Crop Production									
Jan	Farmers	Green Fodder Production	1	10	2	12	11	2	13	25
Mar	Farmers	Agronomic practices in Minor millets	1	10	2	12	11	2	13	25
May	Farmers	Improved Production Technique of Cotton	1	10	2	12	11	2	13	25
	Horticulture									
	Livestock production									
	Home Science									
Feb	Farm women	Value addition	5	*	10	10	0	27	27	37
Jun	Farm women	Value addition	3	-	10	10	0	20	20	30
Aug	Farm women	Value addition	2	-	10	10	0	20	20	30
Nov	Farm women	Value addition	5	-	10	10	0	20	20	30
	Plant Protection									
Jul	Farmers	IPM in soybean and cotton	1	8	4	12	8	4	12	24
Sep	Farmers	IPM in pigeonpea	1	8	4	12	8	4	12	24
Nov	Farmers	IPM in onion	1	8	4	12	8	4	12	24
Jan	Farmers	IPM in chickpea	1	8	4	12	8	4	12	24
Mar	Farmers	IPM in fruit crops	1	8	4	12	8	4	12	24
May	Farmers	Organic practices for management of insects and diseases in Kharif crops	1	8	4	12	8	4	12	24
	Agriculture Extension (Capacity Building and Group Dynamics)									
	Soil Science									
Jan	Farmers	Soil health and fertility management	1	15	0	15	5	0	5	20
Mar	Farmers	Nutrient management	1	15	0	15	10	0	10	25
May	Farmers	Nutrient management	1	15	0	15	10	0	10	25
Jul	Farmers	Balance use of fertilizers	1	15	0	15	10	0	10	25
Aug	Farmers	Soil health and fertility management	1	15	0	15	10	0	10	25
Oct	Farmers	Nutrient management	1	15	0	15	10	0	10	25
Dec	Farmers	Balance use of fertilizers	1	15	0	15	10	0	10	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Durati on in days	Number of participants						Grand Total	
				Others			Number of SC/ST				
				Male	Female	Total	Male	Female	Total		
Crop Production											
Feb	Farmers	Precautions in harvesting of Rabi crops	1	10	2	12	11	2	13	25	
Apr	Farmers	Improved Production Technique of Cotton	1	10	2	12	11	2	13	25	
Jun	Farmers	Importance of Soil & water conservation	1	10	2	12	11	2	13	25	
Jul	Farmers	Good Agricultural Practices for INM	1	10	2	12	11	2	13	25	
Aug	Farmers	Preparation of various composts	1	10	2	12	11	2	13	25	
Sep	Farmers	Importance and concept of Natural Farming	1	10	2	12	11	2	13	25	
Oct	Farmers	Improved Production Technique of Chick pea	1	10	2	12	11	2	13	25	
Nov.	Farmers	Improved Production Technique of Chick pea	1	10	2	12	11	2	13	25	
Dec	Farmers	Improved Production Technique of Wheat	1	10	2	12	11	2	13	25	
Horticulture											
Livestock production											
Home Science											
Jan	Farm women	Nutritional security	2	*	5	5	0	20	20	25	
Mar	Farm women	Income genration	2	*	12	12	0	20	20	32	
Apr	Farm women	Drudgery reduction	2	-	10	10	0	20	20	30	
May	Farm women	Nutritional security	1	--	10	10	0	20	20	30	
July	Farm women	Nutritional security	1	-	10	10	0	20	20	30	
Sep	Farm women	Income genration	5	-	10	10	0	20	20	30	
Oct	Farm women	Nutritional security	2	-	10	10	0	20	20	30	
Dec	Farm women	Nutritional security	2	-	10	10	0	20	20	30	
Plant Protection											
Jun	Farmers	IPM in chilli and maize	1	8	4	12	8	4	12	24	
Aug	Farmers	IPM in moong and urd	1	8	4	12	8	4	12	24	
Oct	Farmers	IPM in wheat	1	8	4	12	8	4	12	24	
Dec	Farmers	IPM in vegetables	1	8	4	12	8	4	12	24	
Feb	Farmers	Store grain pests and their management	1	8	4	12	8	4	12	24	
Apr	Farmers	Organic practices for management of insects and diseases in Rabi crops	1	8	4	12	8	4	12	24	
Agriculture Extension (Capacity Building and Group Dynamics)											
Jan, Apr, Jul,	Farmers	Group dynamics	3	40	0	40	20	0	20	60	
Feb,May, Nov	Farmers	Formation and Management of SHGs	3	40	0	40	20	0	20	60	
Mar Jun, Sep	Farmers	Entrepreneurial development of farmers/youths	3	40	0	40	20	0	20	60	
Aug, Oct, Dec	Farmers	WTO and IPR issues	3	40	0	40	20	0	20	60	
Soil Science											
Feb	Farmers	Soil Fertility Management	1	14	0	14	11	0	11	25	
Apr	Farmers	Soil Fertility Management	1	14	0	14	11	0	11	25	
Jun	Farmers	Soil fertility management	1	14	0	14	11	0	11	25	
Aug	Farmers	Soil health and fertility management	1	14	0	14	11	0	11	25	
Oct	Farmers	Nutrient management	1	14	0	14	11	0	11	25	
Dec	Farmers	Balance use of fertilizers	1	14	0	14	11	0	11	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										
	RY	Budding and Graftingtechniques	8	12	2	14	4	4	8	22
Livestock production										
Home Science										
Plant Protection										
Nov	Rural Youth	Mushroom Production	3	10	5	15	10	7	17	32
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
September,10	Rural Youth	Vermicompost Production technology	02	10	5	15	5	0	5	20
June,15	Rural youth	Soil and water analysis	02	10	5	15	5	0	5	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											
Jun	Agriculture Field Extension Officer	Improved Production Technology of Kharif crops	2	10	2	12	9	4	13	25	
Sep	Agriculture Field Extension Officer	Improved Production Technology of major Rabi crops	2	10	2	12	9	4	13	25	
Horticulture											
Livestock production											
Home Science											
Mar	WCD	Nutritional security	2	0	15	15	0	15	15	30	
Aug	WCD	Value addition	2	0	15	15	0	15	15	30	
Dec	WCD	Nutritional security	2	0	15	15	0	15	15	30	
Plant Protection											
Jul	Agri. Field Extension Officer	Integrated Pest & disease management in Kharif crops	1	10	4	14	10	6	16	30	
Oct	Agriculture Field Extension Officer	Integrated Pest and disease management in Rabi crops	1	10	4	14	10	6	16	30	
Agriculture Extension (Capacity Building and Group Dynamics)											
Soil Science											
June,10	Extension field workers	INM in Kharif crops	1	10	4	14	10	6	16	30	
September,15	Extension field workers	Integrated nutrient management in Rabi crops	1	10	4	14	10	6	16	30	

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration n	Client PF/ RY/ EF	No. of courses	No. of participants							Sponso ring 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	6	200	50	250	10	0	10	210	50	260
Kisan Mela	2	400	50	450	10	0	10	410	50	460
Kisan Ghosthi	12	240	60	300	0	0	0	240	60	300
Exhibition	02	200	20	220	10	0	10	210	20	230
Film Show										
Method Demonstrations	02	50	40	90	10	0	10	60	40	100
Farmers Seminar										
Workshop	4	180	20	200	10	2	12	190	22	212
Group meetings										
Lectures delivered as resource persons	20	200	40	240	5	1	6	205	41	246
Newspaper coverage	24									
Radio talks	15									
TV talks	0									
Popular articles	04									
Extension Literature	03									
Advisory Services	52									
Scientific visit to farmers field	40	300	100	400	10	0	10	310	100	410
Farmers visit to KVK	24	240	24	264	0	0	0	240	24	264
Diagnostic visits	10	200	0	200	10	0	10	210	0	210
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	6	200	200	400	06	0	6	206	200	406
Others (pl. specify)										
Total	226	2410	604	3014	81	3	84	2491	607	3098

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS	Soybean	RVS 2001-4	50
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
	Ornamenal		1000
PLANTATION CROPS			
	Moriga	PKM-1	2000
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
BIOFERTILIZERS				
1	Vermicompost			500
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY	Bird	Kadaknath	300	300
FISHERIES				
Others (Specify)	Chicks	Kadaknath	1000	-

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

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case: ...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	
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	Bavdiyakaji	Khandwa	
2	Ladanpur	Khandwa	
3	Rampura	Khandwa	
4			

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:...2005

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Spectronic-20 spectrophotometer	01	Serviceable
2	Systronic microprocessor Flame photometer	01	Unserviceable
3	Digital pH meter	02	Serviceable
4	Hot air oven	01	Serviceable
5	Hot plate	01	Serviceable
6	Fisher type Agar pestle mortor	01	Serviceable
7	Demineraliser	01	Unserviceable
8	Kelplus automatic nitrogen estimation system (nitrogen analyser)	01	Serviceable
9	Grinder, rotatory shaker, laboratory Stirrer	01	Unserviceable
10	LPG gas cylinder + regulator	2+1	Serviceable
11	Gas stove	01	Serviceable
12	LG 310 litre refrigerator	01	Unserviceable
13	Voltage Stabilizer (5/3 KV)	04(2+2)	Serviceable
14	Shimadzu electronic portable balance and Shimadzu electrical analytical	2(1+1)	Serviceable
15	Digital Conductivity meter	02	Serviceable
16	Steel executive office table	06	Serviceable
17	Steel Elmirah	08	Serviceable
18	Steel executive table	01	Serviceable
19	Laboratory teak wood stool	15	10 Serviceable
20	Wooden rack	14	Serviceable
21	Laboratory table made out of best quality	03	Serviceable
22	Exhaust fan	03	2 Serviceable
23	Steel chair (Chrome)	15	Serviceable
24	Steel rack (large + small)	6 (4+2)	Serviceable
25	Chair (revolving)	07	Serviceable
26	Racks	05	Serviceable
27	Wooden bench	04	Serviceable
28	Wooden table	04	Serviceable
29	Garmin GPS-72	01	Serviceable
30	Mridaparikshak mini lab	01	Serviceable
31	Mridaparikshak mini lab	01	Serviceable
32	Iron racks	06	Serviceable
33	Acetylene gas cylinder with regulator	2 (1+1)	Serviceable

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	50	150000
Water Samples	-	-	-	-
Total	1000	1000	50	150000

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department f Agriculture	Organization of Extension activities, trainings, sangosthi, diagnostic visits
Department of Horticulture	Organization of Extension activities, trainings, sangosthi, diagnostic visits
Department of veterinary	Organization of Extension activities
IGSSS	Conduction of CFLDs, FLDs, Gathering of farmers, extension activities
Agakhann Rural Supprot Prog.	Organization of Extension activities
ITC SIPA	Organization of Extension activities, trainings, sangosthi,
Arpan	Organization of Extension activities, sangosthi
Spandan	Organization of Extension activities, trainings

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes

Name of Programme	Nature of linkage
Krishak Sangosthi, Farmer Field School Scientist- Farmer Interaction workshop Kisan Mela	Collaborate Organization , Lecture delivering, Interaction with farmers Consultation to farmers Exhibition of technologies

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Farmers training programmes	Lectures in trainings

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Apr, May, Jun, Aug, Sep, Dec	Awareness Programme (24)	650
Jan Mar Jun, Jul, Oct, Nov.	Trainings to prepare different solutions in Natural farming (12)	350
Jul, Oct	FLDs	20

Name of Flagship programmes Agri Drone

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Aug, Dec	Demonstrations	200 ha

Name of Flagship programmes Swachhata Pakhwada

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Sep. & Dec	Awareness programmes	200

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _1000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	RVS 76, JS 2034, JS 2069, JS 2098, JS 20116, RVS 2001-4, RVS 18, RVS 24, JS 2029, JS 9305, JS 9560, JS 335		1000
Minor millet	Kharif	JK 41, JK 8, Sanwa Local, Kakun Local		
Wheat	Rabi	Black wheat, HD 2932, HI 8713, HI 1544, HI 8663, HI 1605, HI 8759, HI 1531, HI 8627, HI 8737, HI 8777		1000
Gram	Rabi	Black chickpea, RVKG 101, JG 12, JGK 1, RVG 201, RVG 202, RVG 203, JAKI 9218, JG 16		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Poultry	Kadaknath	200	1000 chicks & 200 nos. adult birds
Azola	Azola production	100	35 q
IFS	Plantation with maize	20000	60 q maize, 2 q lemon, 2 q guava
Natural Farming	Demonstration of different inputs of Natural Farming	4000	2000 litres

ANNUAL ACTION PLAN 2023

KVK Khargone

Year of sanction: 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. G. S. Kulmi	07282356822	9424418862	kvk.khargone@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. G.S. Kulmi	Sr. Scientist & Head	Agronomy	Level 13 A 156900	28.07.1986	28.07.1986	9424418862	kulmigs@gmail.com	
2	Subject Matter Specialist	Dr. Sanjeev Verma	Scientist	Soil Science	Level 10 (UGC) 57700	09.02.2007	16.07.2009	7987749703	sanjiv_soilscie@rediffmail.com	
3	Subject Matter Specialist	Dr. Sunil Kumar Tyagi	Scientist	Horticulture	Level 11 (UGC) 98200	22.05.2007	22.05.2007	8770083621	suniltyagikvk75@gmail.com	
4	Subject Matter Specialist	Dr. Rajiv Kumar Singh	Scientist	Extension	Level 11 (UGC) 98300	21.02.2011	21.02.2011	9479689704	rajiv.k_singh@yahoo.co.in	
5	Subject Matter Specialist	Dr. Anita Shukla	Scientist	Home Science	Level 11 (UGC) 98300	22.02.2011	22.02.2011		lionanitashukla@gmail.com	
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
8	Programme Assistant	Vinod Kumar Mittoliya	Senior Technical Officer	Agronomy	Level 07 (CP) 60400	17.02.2011	17.02.2011	9926223974	deepmittoliya@gmail.com	
9	Computer Programmer/ Programme Assistant	-	-	-	-	-	-	-	-	-
10	Farm Manager	Santosh Patel	Technical Officer	Agronomy	Level 10 (State) 51000	08.08.2003	08.08.2003	9713376153	santoshagronomy@gmail.com	
11	Assistant	Pukhraj Suman	Office superintendent cum Accountant	Management	Level 09 (State) 43300	13.12.2016	13.12.2016	7974644386	pukhrajsuman@gmail.com	

12	Jr. Stenographer / Comp. Operator	Ms. Shashiraj Jhariya	Jr. Stenographer cum Computer operator	Computer	Level 07 (State) 28700	19.12.2020	19.12.2020	8839937923	-	
13	Driver	Gudda Singh	Driver	-	Level 06 (State) 32100	21.07.2008	21.07.2008	9039386581	-	
14	Driver	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Vacant	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha): 27.7

S. No.	Item	Area (ha)
1	Under Buildings	2.57
2	Under Demonstration Units	3.40
3	Under Crops	20.0
4	Orchard/Agro-forestry	1.53
5	Others (specify)	-
Total		27.50

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	2015			-	-	-
2	Farmers Hostel	ICAR	2015			-	-	-
3	Staff Quarters (6)	ICAR	2015			-	-	-
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 2	2005	45452/-	24344	condemn
Bolero(Jeep)	2005	408508/-	339468	condemn
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Road Sign Board	4/1/2001	2490	S
Sign Board	4/1/2001	900	S
Sign Board	4/1/2001	900	S
Over head Projector	3/17/2001	8488	S
Exhibition Display Sys. (Red)	3/28/2001	13300	S
White Board 2x3	3/23/2001	14250	S
Display Board Black preskograph board- big (3x4 ft)	3/23/2001	5930	S
Display Board Black preskograph board-small (2x2 ft)	3/23/2001	1260	S
Display Board (3x3 ft)	3/23/2001	2650	S
Home Science Training Items			
Mixer Grinder (Toshiba)	3/23/2001	2150	S
Hand Mixer/Biender (Toshiba)	23.13.01	850	S
Pressure Cooker (2 Lit.)	3/23/2001	1041	S
Namkeen Sev Machine	3/23/2001	460	S
Stainless Steel Pot (Bagoni)	3/23/2001	960	S
Iron Kadai (Medium)	3/23/2001	283	S
Tray Steel	3/23/2001	220	S
Steel jug	3/23/2001	250	S
Serving steel spoon	3/23/2001	110	S
Steel glass	3/23/2001	80	S
Hand operated egg beater	3/23/2001	254	S

Baking oven	3/23/2001	750	S
Steel balti	3/23/2001	210	S
Steel tank (60 L)	3/23/2001	725	S
Steel tea pot	3/23/2001	155	S
Store peti No. 1 (6x3x3 ft)	3/23/2001	2850	S
Suitcase	3/23/2001	1020	S
Suitcase	3/23/2001	1040	S
Amplifier (Ahuja SSBm 45M)	3/30/2001	3460.8	S
Mike99xLR	3/30/2001	1848	S
Speaker Ahuja	3/30/2001	4344	S
Collar Mike	3/30/2001	600	S
Audio Visual trolley	3/30/2001	8500	S
Mike with stand	3/30/2001	2090	S
T.V. Trolley Stand	3/30/2001	900	S
Honda Generator	3/13/2001	40660	US
Sofa (1+2)	3/31/2001	12300	S
Lecture Stand	31.0101	2300	S
Office Table	3/28/2001	12486	S
Office Chair (Cane)	3/28/2001	25750	S
Cushioned Chair- Red	3/28/2001	15400	S
Plain Almirah	5/28/2001	17710	S
Locker Almirah	3/28/2001	4398	S
Executive Table	3/28/2001	4398	S
Executive Chair	3/28/2001	2094	S
Katile Tar	3/30/2001	14850	S
Katile Tar	12/20/2002	240	S
Katile Tar	5/2/2003	10500	S
Fencing Pole	3/30/2001	12000	S
Fencing Pole	3/30/2001	900	S
Fencing Pole	3/30/2001	900	S
Horticulture Implements			
Geti	10/17/2001	330	S
Phawada	10/17/2001	210	S
Tagari	10/17/2001	152	S
Cutter (Mehdi)	10/17/2001	150	S
Flower Cutter	10/17/2001	160	S
Kenchi Choti	10/17/2001	20	S
Sickle	10/17/2001	120	S
Khurpi	10/17/2001	60	S
Hazara	10/17/2001	220	S
Hatori	10/17/2001	145	S
Photocopier	2/11/2002	80580	S
Stablizer	2/11/2002	5100	S
Sewing Machine	10/26/2002	1919	S
Show case (4x3 ft)	1/6/2003	3600	S
Director Table	11/6/2003	5400	S
False Ceiling of Gypsum Board	1/7/2003	14364	S
False Ceiling of Gypsum Board	1/8/2003	15120	S
Woven Carpet	1/7/2003	6156	S
Woven Carpet	1/8/2003	6480	S
Al. Openable Door	1/7/2003	4063	S
Al. Openable Door	4/7/2003	2844	S
Door Closer	1/7/2003	1350	S
Door Closer	4/1/2003	945	S

Sliding Windows	1/7/2003	5215	S
Revolving Chair	1/7/2003	3600	S
Laser Printer	1/7/2003	21500	US
Pentium 4 Computer	1/7/2003	43500	US
Conference Table (B)	12/30/2002	4800	S
Conference Table (A)	12/30/2002	18000	S
CD Writer	12/30/2002	4500	S
Digital Camera (Cannon)	12/30/2002	8500	S
CD Rom	12/30/2002	1250	S
Spike	12/13/2002	150	S
OD Irrigation pipe	1/15/2003	23865	S
Outlet Fittings	1/15/2003	700	S
Iron Angles	3/4/2003	20028	S
Iron Angles	3/11/2003	336	S
Iron Gate	4/1/2002	4396	S
LCD Projector	3/29/2003	121380	S
Grider Iron	3/24/2003	2000	S
Well Jali Iron	3/24/2003	7900	S
T.V.	3/28/2003	24990	S
Video CD Player	3/28/2003	10800	S
Flame Photometer	2/26/2005	36850	S
Hot Air Oven	3/11/2005	20000	S
Hot plate (chulha), Lighter, Tube	3/17/2005	1115	S
Presure Regulator + Gas Cylinder	3/17/2005	1100	S
Sterling Servo Stablizer 5 KVA	3/19/2005	23,600.00	S
Caption Automatic Voltage Stablizer 3 KVK	3/22/2005	5180	S
Nalidar Patare	3/28/2005	16434	S
Nalidar Patare	3/29/2005	1262	S
Shed (30'x20')	3/29/2005	24800	S
Refrigerator	3/28/2005	17400	S
Bolero DI Jeep	3/19/2005	408,508	Condemn
Gate of Shed (5'x 4.6')	3/31/2005	13650	S
Exhajst Fan	3/29/2005	5600	S
Jali for Exhajast Fan	3/31/2005	874	S
Helmet	3/31/2005	990	S
Carrier	3/31/2005	9650	S
Bumper	3/31/2005		S
Aluminum Frame	3/31/2005	6412	S
Inverter 1400 VA	3/31/2005	4612	S
Exide Battery	3/31/2005	7786	S
Exide Battery	3/31/2005	8000	S
Digital pH meter	2/17/2005	3604	S
Grider	2/17/2005	17636	S
Rotary Shaker & Lab Stirrer	2/17/2005	20708	S
Small Cupboard Table (2.5'x4'x2.5')	3/31/2005	32760	S
Small Cupboard table (5'x3'x2.5')	3/31/2005	8190	S
Desk Table without drover	3/31/2005	9391	S
Angle Iron Rack (6'x3'x15')	3/31/2005	15288	S
Angle Iron Rack (6.5'x3'x18')	3/31/2005	15526	S
Desk Table (8'x2.5'x2.5')	3/31/2005	5023	S
Aluminum Frame	3/31/2005	19792	S
Aluminum Frame	3/31/2005	6017	S
'S' Continuous Armed Chair having	3/31/2005	24024	S

Tapestry			
'S' type Continuous Armed Chair having Canning Seat	3/31/2005	9173	S
Wooden Rack	3/29/2005	14400	S
Lab Wooden Stool	3/29/2005	13519	S
Lab Table	3/29/2005	67142	S
Executive Table	3/29/2005	7056	S
A. Steel Almirah	3/29/2005	39984	S
B. Steel Almirah	3/22/2007	20475	S
Fisher type Agate Pestle Mortar	3/31/2005	12600	S
Demineralizer	3/29/2005	74880	S
Spectrophotometer	3/16/2005	98800	S
Micro Kjeldhal Distillation Apparatus	3/31/2005	7200	S
Electronin Automatic Macro Block Digestion System	4/23/2005	112613	S
Bajaj Pulser 150 Motorstyle	3/24/2005	45452	S
Shimadzu Electronic Analytical Balance AUC 120	6/3/2005	64800	S
Hot Plate	6/8/2005	3134	S
Digital Conductivity Meter	9/23/2005	7517	S
A.Box (30"x19"x15")	2/14/2006	1257	S
B.Box (5.5' x 18" x 12")	2/14/2006	2457	S
UPS (Invertor) 1400 VA/ZUV Sunkan make	3/18/2006	10800	S
A White Marker Writing Board (4'x4')	3/7/2007	11862	S
B. Acrylic Cover notice board (3'x5')			S
C. Double side notice board (2'x4') (Double panel)	3/7/2007	10827	S
Altinator (Jeep)	7/28/2007	4900	S
Kitchen Stand	8/26/2007	12275	S
Jali (iron), Section window	9/5/2007	5313	S
Aluminiuum Door with Frame	9/5/2007	8920	S
Old partition shifted to	9/5/2007	6640	S
window and ventilation jali	9/6/2007	4390	S
chokhat palla	9/6/2007	4578	S
Channel Gate	9/6/2007	11119	S
Laptop(Wipro)	3/29/2010	49990	S
Library Steel Almeria	3/29/2011	9492	S
Single Stand Board	9/20/2007	6328	S
Sign Board	9/20/2007	11672	S
Single Stand Board	9/20/2007	990	S
Angle Iron Board	1/7/2012	8900	S
Kelpluse Scruber System	1/27/2012	74253	S
Steel Tonti	1/17/2012	800	S
Rotary sacker	2/16/2012	89044	S
Angel Iron rack	2/17/2012	24000	S
Angel Iron rack	2/21/2012	24000	S
Angel Iron rack	2/25/2012	24000	S
Angel Iron rack	2/29/2012	24000	S
Angel Iron rack	3/10/2012	24000	S
Angle	3/17/2012	24030	S
Electronic Kelpluse	3/26/2012	372292	S
Laptop (Acer)	3/28/2012	46200	S
Sukan invertor 1400 VA	3/29/2012	7500	S

Exide tubular battery	3/29/2012	38900	S
Maize seller	3/2/2013	220	S
Hand wheel hoe	3/2/2013	890	S
Cotton picking Machine	3/2/2013	6320	S
Lock	4/14/2013	150	S
Iron rack	10/7/2013	Free cost COA Indore	S
Home Science Items			
Steel Bhagoni	7/16/2013	450	S
Chips Machine	7/16/2013	450	S
Steel dhakan	7/16/2013	85	S
Chalni steel 4 in one	7/18/2013	300	S
Jhara	7/18/2013	80	S
Steel Bhagoni	7/18/2013	350	S
Dhakan steel	7/18/2013	120	S
Pedal cum power operated cleaner	12/20/2013	Free cost CIAE Bhopal	S
Potato peeler	12/20/2013	Free cost CIAE Bhopal	S
Potato slicer	12/20/2013	Free cost CIAE Bhopal	S
Groundnut decorticator	12/20/2013	Free cost CIAE Bhopal	S
Electrical Lawn Mover	8/27/2015	38760	S
Pinup board with door 3X4	3/22/2016	26726	S
Pinup board with door 3X4	3/22/2016	6681	S
Motorized screen (Regular)	3/16/2016	19435	S
Podium-2 (Lecture stand)	3/16/2016	17374	S
Portable PA System	3/16/2016	11385	S
Godrej Encarta conference Table for 33 person	3/28/2016	179830	S
Godrej chair PCH-7102R round off	3/28/2016	15127	S
Godrej chair PCH-7101	3/29/2016	42432	S
Godrej chair PCH R round off	3/29/2016	7564	S
Godrej chair PCH-7102 R round off	3/30/2016	189092	S
Upgradation of Mridaprikshak	10/9/2016	14700	S
Mridaprikshak soil testing mini lab	6/15/2016	75960	S
Mobile Samsung A 31	9/23/2020	17990	S
Computer	3/29/2018	55000	S
Computer printer	3/31/2018	13500	S
Divine Chair 202	2/4/2019	5800	S
Divine Chair 160	2/4/2019	28800	S
Laptop	2/5/2019	40800	S
Sofa Steel	1/25/2019	15000	S
Voltas Water Cooler	2/5/2019	27100	S
Sony Digital DSR Camera	3/30/2019	42990	
Sony TV Android	3/30/2019	49990	S
LCD Projector Sony	3/30/2019	49990	S
Steel Bed	3/30/2019	22656	S
Steel Bed	7/2/2019	28320	S
Home Pride Strom 21" Cooler	6/14/2019	12500	S
Hevelles Fan Samrat	6/14/2019	1750	S
Dabba Chaddar	6/25/2019	990	S
Dabba Chaddar	7/10/2019	990	S

Luminous UPS	1/3/2020	5800	S
Sony Camera	2/17/2020	46900	S
Desktop Computer HP All in one	2/28/2020	43037	S
Luminous Battery	2/28/2020	16000	S
Desktop Computer	3/17/2020	36627	S
Sony Camera Lance	3/12/2020	5100	S
Godrej Chair- PCH-5002R	3/21/2020	16336	S
Godrej Chair- PCH-5002R	2/29/2020	10891	S
HP Printer MFP 128 FN	3/21/2020	16500	S
Voltas AC 2.00 Ton	3/12/2020	46500	S
Garden Tar Jali 18 mm + Protile Screw Nat Bolt	3/10/2020	14856	S
Color Coated Tin Sheet (Profile Sheet)	3/7/2020	37769	S
MS Squire Pipe (Iron) 2 mm	3/16/2020	46728	S
MS Squire Pipe (Iron) 2 mm+ MS Angle	3/21/2020	31664	S
Color Coated Tin Sheet (Profile Sheet)	3/23/2020	30978	S
Color Printer	3/30/2022	14990	S
CPU with wifi USB Tenda & Combo wireless	3/30/2022	14950	S
Almirah	8/16/2022	11210	S
Tin Box	10/13/2022	4720	S
Alluminium Bhagona	23/03/2022	7171	S

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

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

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1	Crop production + Animal husbandry
2	AES – 2	Crop production + Animal husbandry + Horticulture
3	AES – 3	Crop production + Animal husbandry + Spices + Medicinal crops
4	AES - 4	Crop production + Animal husbandry + flowering plants
5	AES - 5	Crop production + Vermicompost + Nadeb
6	AES - 6	Crop production + Backyard poultry

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

S. No.	Agro-climatic Zone	Characteristics
1.	XI Nimar Valley	Krishi Vigyan Kendra, Khargone belongs to XI number zone i.e. Nimar Valley Zone. The zone comprises of Khargone, Khandwa, Barwani, Harda and Dhar (Manawar, Dharampuri and Gandhwani tehsils). The Nimar Valley zone is predominantly tribal area. The Nimar Zone is situated between 20° 40' and 22° 50' North latitude and 74° 42' and 77° 20' East longitude. The zone is characterised by hills as well as plain areas. The height ranges between 200-500 m from MSL and major part lies on uplands between the valley of Narmada and Tapi. The zone is surrounded by Malwa Plateau and Jhabua hills in North-West and Central Narmada Valley in East-North. The total area of Nimar Valley zone is 2535000 ha which is about 8.23% of the total geographical area of M.P. The total population of the zone is 4123780 out of which 10.61% belongs to SC and 43.22% to ST category. The male-female ratio is 952.4. The literacy percentage of the zone is 36.53%. The Nimar Zone is the hottest belt of the country. The maximum temperature ranges upto 43 to 46°C during summer season and minimum temperature fluctuates between 10°C to 12°C during winter season. The average annual rainfall is 835 mm. Generally monsoon commences from June and maximum rainfall is received during July-August. The total rainy days in Khargone district ranged 24 to 54 days. The Nimar Zone has dry climate except during the South-West monsoon season. The Nimar Zone has 8.23% area of total geographical area of M.P. It has 63% total cultivable land, 32% forest area and 2% fallow waste land. Major source of irrigation in Nimar Zone is wells (59%), canals (36%), tube wells (8%) and ponds (1%). Major holding sizes in Nimar Zone are large (6 %), medium (24%), semi medium (27%), small (26%) and marginal (17%). The major soil types are shallow black, medium black, heavy black and light soil. The major crops of the zone are jowar, maize, groundnut, soybean, moong, urad, cotton, arhar, wheat and gram. Among horticulture crops chilly, ginger, garlic, turmeric, onion, banana, guava, mango, potato, tomato, bhindi, brinjal and cauliflower are the major crops. Vegetables (16%), fruits, flowers and medicinal crops (48%) and condiments (36%) are high valued crops in the zone. The Nimar Zone has 55% cows, 28% goats and 17% buffaloes. The variation in soils, rainfall and physiography are very large, hence agro-ecological situations are variable in the district.

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Medium black cotton soil, medium rainfall
2	AES – 2	Shallow black cotton soil, low rainfall
3	AES – 3	Alluvial soils, medium to low rainfall
4	AES – 4	Hilly area and marginal land, high to low rainfall
5	AES – 5	Saline alkaline soils

S. No.	Agro-ecological situations	Characteristics
1	AES – 1	Medium black cotton soil, medium rainfall (643 to 1018 mm) Clay to sandy clay loam Cotton, jowar, groundnut, pigeonpea, soybean, wheat, gram and vegetables Cotton based inter and mixed cropping orchards, ground water moderate Bhikangaon, Khargone, Segaon, Zirniya, Barwaha, part of Bhagwanpura and Kasrawad
2	AES – 2	Shallow black cotton soil, low rainfall (770 to 800 mm) Clay to sandy clay loam Cotton, jowar, ground nut, arhar, moong, urad, soybean, sugar cane, wheat, gram, vegetables and fruits Cotton and jowar based intercropping partially mechanized Kasrawad, Segaon, part of Barwaha and Khargone
3	AES – 3	Alluvial soils, medium to low rainfall (980 to 1000 mm) Clay to sandy clay loam Cotton, maize, sugarcane, soybean, wheat gram, vegetables and banana 30% mechanized irrigation, summer groundnut Maheshwar, Barwaha and Part of Kasrawad
4	AES - 4	Hilly area and marginal land, high to low rainfall Sandy loam to sandy clay loam 700 to 900 Deshj cotton, jowar, maize, arhar, moong, urad, soybean, wheat, gram, vegetables and fruits Contour irrigation, mixed cropping Bhagwanpura, Zirniya and part of Maheshwar
5	AES - 5	Saline alkaline soils Clay and sandy clay loam to sandy loam 1050 to 1100 Cotton, Jowar, Pulses, Soybean, Sugarcane, Wheat, Gram, Vegetables and Orchards Native salt, sodium rich, ground water blackish Barwaha, Maheshwar
6	AES - 6	Black cotton soil, medium to low rainfall Clay to clay loam 634 to 1000 Cotton, jowar, sugracane, soybean, wheat, gram and vegetables Rich ground water, foot hill soils, double cropped, well irrigation Bhagwanpura and part of Khargone

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

Strength	Weakness	Opportunities	Threats
Very good diversity of crops can be grown	This zone is dominated with tribals. They are not highly tend to change.	No. of crops can be introduced among the farmers	Land holdings of the farmers are very low.

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
☐ This zone has good	☐ Farmers are not supporting	They can grow high income return	

quality of Soil. Irrigation facility is very good. Farmers have large holding of land	to govt. extension agencies They are not actively participated in trainings, Goshthis and other agricultural programmes	horticultural crops.	

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	647789
Forest	168595
Waste Land	
Other than cultivated area	68598
Cultivable waste and alkaline land	22769
Pastures	
Bushes	
Current Fallow	
Other Fallow	1.8
Agricultural Land	
Area Sown	403561
Kharif	393886
Rabi	192251
Zaid	3250
Cropping Intensity	146.04

Irrigated Area with Different Sources:

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

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Black soil	44%	179376
2	Sandy loam soil	22%	89688
3	Sandy soil	13%	52997
4	Red soil	15%	61151
5	Others	06%	24461
6	Low	20%	81535
7	Medium	65%	264987
8	High	15%	61151

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	Jowar	3451	75650	21.92
2	Maize	82150	3197280	38.92
3	Wheat	221950	8755930	39.45
4	Pigeonpea	5580	30360	5.44
5	Moong	1570	8640	5.50
6	Urad	670	3350	5.00
7	Chickpea	124530	2465690	19.83
8	Groundnut	1310	21620	16.50
9	Soybean	72320	1261260	17.44
10	Cotton	205410	2666220	12.98
11	Sugarcane	2690	1950250	725
12	Mango	370	78725	405
13	Mandarin	231	27720	120
14	Lime	1051	147140	140

15	Guava	1691	422750	250
16	Banana	1112	834000	750
17	Papaya	786	594150	756
18	Aonla	31	4030	130
19	Other	1243	266205	238.98
20	Coriander	166	10690	80.1
21	Chilli	51350	1797250	35
22	Ginger	164	40180	245
23	Garlic	55	4675	85
24	Turmeric	85	20825	245
25	Other	235	9218	6.07
26	Potato	48	12000	250
27	Sweet Potato			
28	Onion	3080	770000	250
29	Tomato	632	410800	650
30	Brinjal	638	114840	180
31	Okra	708	130280	184
32	Cauliflowers	351	71620	204
33	Cabbage	244	50860	208
34	Pea	87	11310	130
35	Colocasia	606	154530	255
36	Other			
37	Medicinal Crops	201	1760	8.8
38	Flowers	152	17675	116

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

Month /Year	Rainfall (mm)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	8.0	25.5	9.6
Feb, 22	0.0	30.2	10.7
Mar, 22	2.0	36.5	17.5
Apr, 22	0.0	41.5	21.4
May, 22	0.0	42.3	26.7
Jun, 22	84.0	44.0	27.7
July, 2022	371.0	30.3	23.2
Aug., 2022	188.0	30.7	22.9
Sept., 2022	207.0	30.6	21.9
Oct. 2022	181.0	32.1	17.8
Nov. 2022	0.0	31.3	11.1
Dec. 2022	30.0	28.0	10.7

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	1,252/4,25,497	 MT.	 kg
Buffalo	1,313/97,859	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	3,034	 MT wool	 kg
Goats	2,25,566	 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	2,045	---	---
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	Goganwa	Goganwa	Baijapur	Cotton, Chilli, Maize, Wheat, Chickpea	Low yield due to use of local varieties Lack of entrepreneurship Infestation of insect and pests	Variety replacement Development of entrepreneurship Integrated pest management
2	Jhirniya	Jhirniya	Saikheda	Soybean, Pigeonpea, Maize, Wheat, Chickpea	Low yield due to use of local varieties Imbalance use of fertilizers Infestation of insect and pests	Variety replacement Integrated nutrient management Integrated pest management
3	Bhikangaon	Bhikangaon	Chikalwas	Cotton, Chilli, Maize, Wheat, Chickpea	Low yield due to use of local varieties Imbalance use of fertilizers Infestation of insect and pests	Variety replacement Integrated nutrient management Integrated pest management
4	Segaon	Segaon	Dasanawal	Cotton, Soybean, Chilli, Maize, Wheat, Chickpea	Low yield due to use of local varieties Lack of entrepreneurship Infestation of insect and pests	Variety replacement Development of entrepreneurship Integrated pest management
5	Khargone	Khargone	Idaratpura	Cotton, Soybean, Chilli, Wheat, Chickpea, Guava	Low yield due to use of local varieties Lack of entrepreneurship Infestation of insect and pests	Variety replacement Development of entrepreneurship Integrated pest management

Priority / Thrust areas

S. No.	Particulars
1.	Integrated crop management
2.	Integrated nutrient management/Nutrient management
3.	Integrated pest management
4.	Integrated disease management
5.	Integrated weed management/Weed management
6.	Use of high yielding varieties
7.	Seed treatment and seed inoculation
8.	Soil and water management
9.	Natural Farming

10.	Balance nutrition
11.	Feed and feeding management
12.	Farm mechanization
13.	Value addition
14.	Fruit preservation
15.	Nutritional gardening
16.	Use of improved farm implements
17.	Development of entrepreneurship
18.	Deworming in animals
19.	Group dynamic and group discussion
20.	Improve communication through Audio visual aids, meeting, gosthi, seminar etc.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
20	153	18	300

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
67	2010	309	85082

Seed Production (Qtl.)	Planting material (Nos.)
600	76000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Poor Soil Fertility Management	Cotton	Low yield due to poor use efficiency of plain urea	Assessment of nano urea for Cotton production maximization under Cotton-Wheat cropping system	-				Nano urea
2	High use of chemicals	Greengram	Poor soil health, high cost of cultivation and poor quality produce	Assessment of Natural Farming in Greengram	-				Jivamrit
3	Poor Soil Fertility Management	Wheat	Low yield due to poor use efficiency of plain urea	Assessment of nano urea for maximization of wheat production under cotton-wheat cropping system	-				Nano urea
4	Poor Soil Fertility Management	Soybean	Poor soil health, high production cost and poor quality produce	Assessment of INM, organic farming and natural farming in Soybean	-				Fertilizer
5	Poor Soil Fertility	Guava	Poor soil health, high	Assessment of organic and natural farming in Guava	-				Jivamrit

S. N o.	Thrust area	Crop/ Enterpr ise	Identifi ed Proble m	Interventions					
				Title of OFT if any	Titl e of FLD if any	Title of Traini ng if any	Title of trainin g for extens ion perso nnel if any	Exten si on activit ies	Supply of seeds, planting materials etc.
	Manage ment		cost of cultivati on and poor-quality produce						
6	Lack of new variety	Onion	Low yield due to the use of old variety N-53 and tradition al practices of onion producti on	Assessment of onion verities with improved production technology for kharif onion	-				Seed
7	Poor disease manage ment	Tomato	Low yield due to heavy incidenc e of fungal diseases in tomato	Assessment of IDM module for management of early blight in tomato	-				Pesticide
8	Poor disease manage ment	Cabbag e	Low yield due to heavy incidenc e of fungal diseases in cabbage	Assessment of IPM module for control of DBM in cabbage	-				Pesticide
9	Poor farming system	Cotton and Wheat	Low income due to poor adopti on of Agri- enterpr ises	Crop production + Livestock + Vermicompost	-				-
10	Poor weed manage	Soybea n	Low yield due to	Assessment of weed management in soybean	-				Weedicide

S. N o.	Thrust area	Crop/ Enterpr ise	Identifi ed Proble m	Interventions					
				Title of OFT if any	Titl e of FLD if any	Title of Traini ng if any	Title of trainin g for extens ion perso nnel if any	Exten si on activit ies	Supply of seeds, planting materials etc.
	ment		heavy infestati on of weeds						
11	Poor weed manage ment	Chickpe a	Low yield due to heavy infestati on of weeds	Assessment of Topramazone 33.6 SC in Chickpea	-				Weedicide
12	High use of chemical s	Chickpe a	Poor soil health, high cost of cultivati on and poor quality produc e	Assessment of Natural Farming in Chickpea	-				Jivamrit
13	High use of chemical s	Pigeonpe a	Poor soil health, high cost of cultivati on, Poor quality of produc e	Assessment of Natural Farming in Pigeonpea	-				Jivamrit
14	Low plant populatio n	Cotton	Low yield due to low plant populat ion	Assessment of HDPS Planting in Cotton	-				-
15	High use of chemical s	Wheat	Poor soil health, high cost of cultivati on, poor	Assessment of Natural Farming in Wheat	-				Jivamrit

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
			quality of produce						
16	Lack of new variety	Chickpea	Low yield due to old variety and incomplete use of technology in chickpea	Assessment of production technology of Chickpea under soybean – chickpea cropping system	-				Seed
17	Poor technology knowledge	Soybean	Poor soil health, high cost of cultivation and poor quality produce	Assessment of effective extension methods for TOT of Natural Farming in Soybean	-				-
18	Poor technology knowledge	Cotton	Lack of knowledge and poor adoption level for use of drip and fertigation in Cotton	Assessment of knowledge and adoption level of farmers for use of drip and fertigation in Cotton	-				-
19	Poor technology knowledge	Chickpea	Poor soil health, high cost of cultivation and poor quality produce	Assessment of effective extension methods for TOT of Natural Farming in Chickpea	-				-

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
20	Wrong method of urea application	Wheat	Farmer s applied urea before irrigation in wheat which causing severe loss of nitrogen	Assessment of application method of urea in wheat	-				-
21		Castor		-	Demonstration of RDF 60:40:40:40 NPKS kg/ha + FYM 5 t/ha in Castor				Fertilizer
22		Sorghum		-	Demonstration of 100:50:30:0 5 NPKZn kg/ha + FYM 5 t/ha in Sorghum				Zinc
23		Maize		-	Demonstration of 120:60:40:0 5 NPKZn kg/ha + FYM 10 t/ha + Azotobactor @5 g/kg seed in Maize				Fertilizer
24		Okra		-	Demonstration of Neem oil 3000 ppm @ 1500 ml/ha at 15 DAS + need based spray of Cyantraniliprole 10% OD @ 900 ml/ha in Okra.				Neem oil, Cyantraniliprole 10% OD
25		Chilli		-	Demonstration				Pyriproxyfe

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
					ion of Seed treatment with Imidacloprid 70 WS @ 10g/kg seed, covering nursery beds with nylon net of 40 mesh, dipping seedling roots in Imidacloprid 17.8 SL @ 0.3 ml/l of water for 20 minutes, growing 3 rows of maize as barrier crops, installation of yellow sticky trap @ 50/ha, Initial rouging of infected plants soon after infection and burn it. spray of Neem oil @ 1lit/ha/ 2-3 times at 10 days interval + need based spray of insecticides viz., Pyriproxyfen 10% EC @ 500 ml /ha and Fenpropathr in 30% EC @ 250 ml/ha in				n 10% EC and Fenpropathr in 30% EC

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
					Chilli				
26		Onion		-	Demonstration of Blue sticky trap @ 50/ha at 10 DAP + Neem oil 3000 ppm @ 600 ml/ha at 20 DAP + Need based spray of Fipronil 5% SC @ 1 lit/ha in Onion				Fipronil 5% SC
27		Onion			Demonstration of Quizalofop ethyl 4% EC + Oxyflurofen 6 % EC @ 1 lit/ha. at 20 DAT + 1 HW at 40 DAT in Onion				Quizalofop ethyl 4% EC + Oxyflurofen 6 % EC
28		Soybean			Demonstration of new improved variety of Soybean JS-20-69				Seed
29		Soybean			Demonstration of Imazethapyr 35%+Imazox 35% WG @ 70 g/ha PoE at 20 DAS in Soybean				Herbicide
30		Wheat			Demonstration of new improved variety of Wheat HI-8737				Seed
31		Chickpea			Demonstration of new				Seed

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
					improved variety of Chickpea RVG- 203 Variety				
32		Soybean			Demonstration of new improved variety of Soybean JS 20-34				Seed
33		Soybean			Demonstration of Propaquiza pop 2.5 % + Imazathapyr 3.75% ME @ 2 l/ ha at 15 DAS + 1 Kolpa at 30 DAS in Soybean				Weedicide
34		Wheat			Demonstration of new improved variety of HI-8759				Seed
35		Maize			Demonstration of IPM (Use of early maturing variety + seed treatment with Cyantraniliprole 19.8 % + Thiamethoxam 19.8 % FS @ 6 ml/kg seed + Chlorantraniliprole 18.5% SC @ 150 ml /ha at 20, 40 DAS) in Maize				Chlorantraniliprole 18.5% SC

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
IPNM	2			1						3
IPM					1					1
IDM					1					1
IWM		1	1							2
Varietal Evaluation					1					1
Natural Farming	1	2	4			1				8
ICM			1	2						3
IFS				1						1
TOTAL	3	3	6	4	3	1				20

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ :
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	

12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline	(Soil Science)
Title of on-farm trial:	Assessment of nano urea for Cotton production maximization under Cotton-Wheat cropping system
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to poor use efficiency of plain urea
Thematic area:	Soil Fertility Management
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Nano urea @ 1250 ml/ha at 40 DAS + 223 kg NCU at 80, 120 DAS
T2 –Recommended Practice-	T2- Nano urea @ 1250 ml/ha at 40, 80 DAS + 98 kg NCU at 120 DAS
T3- Recommended Practice-	T3- Nano urea @ 1250 ml/ha at 40, 80, 120 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	IFFCO, 2020
Characteristics of technology:	Application of nano urea in cotton
Name of Crop/Enterprises:	Cotton
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(Soil Science)
Title of on-farm trial:	Assessment of Natural Farming in Greengram
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Poor soil health, high cost of cultivation and poor quality produce
Thematic area:	Natural Farming
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 250 kg/ha, Jeevamrit @ 500 l/ha at sowing, 15, 30, 45 DAS (FA), Nimastra and Dashparni Ark @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 5 t/ha at 20 DAS
T2 –Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 750 l/ha at sowing, 15, 30, 45 DAS (S & FA), Panch Patti Kadha and Bramhaastra @ 25 l/ha, at 20 and 40 DAS, Mulching with plant waste material @ 5 t/ha at 20 DAS
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज - 1-166 NCONF, Ghaziabad 2022
Characteristics of technology:	Natural Farming
Name of Crop/Enterprises:	Greengram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(Soil Science)
Title of on-farm trial:	Assessment of nano urea for maximization of wheat production under cotton-wheat cropping system
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to poor use efficiency of plain urea
Thematic area:	Soil Fertility Management
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Nano urea @ 1250 ml/ha at 20 DAS + 136 kg NCU at 40 DAS
T2 –Recommended Practice-	T2- Nano urea @ 1250 ml/ha at 20 DAS + 11 kg NCU at 40 DAS
T3- Recommended Practice-	Nano urea @ 1315 ml/ha at 20, 40 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	IFFCO, 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(Soil Science)

Title of on-farm trial:	Assessment of INM, organic farming and natural farming in Soybean
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Poor soil health, high production cost and poor quality produce
Thematic area:	IPNM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	INM: 20:80:40:25 NPKS kg/ha + FYM @ 5 t/ha + Rhizobium +PSB @ 5 kg/ha
T2 –Recommended Practice-	Organic farming: Vermicompost @ 3 t/ha + Vermiwash+Gomutra @ 1+1 l/10 l of water at 30, 45 DAS, Jivamrit @ 500 l/ha at 15, 30, 45, 60 DAS, Beeveria bassiana @ 1 kg/ha at 20,50 DAS + Neem oil @ 2.5 l/ha at 30, 60 DAS
T3- Recommended Practice-	Natural farming: Beeeamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 500 l/ha at sowing, 15, 30, 45 DAS, Panch Patti Kadha and Bramhaastra @ 25 l/ha, at 20 and 40 DAS, Mulching with plant waste material @ 5 t/ha at 20 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज - 1-166 NCONF, Ghaziabad 2022
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
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)	Horticulture
Title of on-farm trial:	Assessment of organic and natural farming in Guava
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Poor soil health, high cost of cultivation and poor-quality produce
Thematic area:	Organic and natural farming
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-	Chemical farming (800 g + 300 g + 100 g NPK/ Plant)
T2 –Recommended Practice-	Organic Farming- Apply 50 kg FYM + Azospirillum + PSB @ 100 g per plant

T3- Recommended Practice-	Natural Farming- Ghanjeevamrit @ 2 kg/plant, Jeevamrit @ 2 l/plant at 15 days interval + organic mulch + need based spray of Nimastra and Dashparni Ark @ 25 l/ha.
Date of sowing:	
Date of harvesting:	
Source of technology:	CISH, Lucknow-2020
Characteristics of technology:	Natural and Organic Farming
Name of Crop/Enterprises:	Guava
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)	Horticulture
Title of on-farm trial:	Assessment of onion varieties with improved production technology for kharif onion
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to the use of old variety N-53 and traditional practices of onion production
Thematic area:	ICM
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 old variety N-53 with conventional production technology
T2 –Recommended Practice-	AFDR+ Broad bed furrows (BBF)+ INM (FYM 150q/ha + 75:40:40 Kg NPK/ha) + IWM (Quizalofop ethyl 4% EC + Oxyflurofen 6 % EC @ 1 lit/ha. at 20 DAT + 1 HW at 40 DAT+ IPM (Seed treatment with thiram @ 2 g/kg of seed+ erection of blue sticky trap @ 50/ha at 10 DAP + Neem oil 3000 ppm @ 600 ml/ ha at 30 DAP + Need based spray of label claim pesticides
T3- Recommended Practice-	Bhima Dark Red+ Broad bed furrows (BBF)+ INM (FYM 150q/ha + 75:40:40 Kg NPK/ha) + IWM (Quizalofop ethyl 4% EC + Oxyflurofen 6 % EC @ 1 lit/ha. at 20 DAT + 1 HW at 40 DAT+ IPM (Seed treatment with thiram @ 2 g/kg of seed+ erection of blue sticky trap @ 50/ha at 10 DAP + Neem oil 3000 ppm @ 600 ml/ ha at 30 DAP + Need based spray of label claim pesticides
Date of sowing:	
Date of harvesting:	
Source of technology:	DOGR, Pune
Characteristics of technology:	Improved variety
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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

Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of IDM module for management of early blight in tomato
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy incidence of fungal diseases in tomato
Thematic area:	Disease 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-	Chemical based farming (Use of Mancozeb 75% WP @ 1250 g/ha)
T2 –Recommended Practice-	Chemical module: Use of resistant variety + Seed treatment with Metalaxyl-M 31.8 ES 2 ml/ kg seed + Spray of Chlorothalonil 75 % WP @ 1500 g/ha
T3- Recommended Practice-	Integrated module: Use of resistant variety + Seed treatment with Metalaxyl-M 31.8 ES 2 ml/ kg seed + Spray of Tebuconazole 50% + Trifloxystrobin 25% WG @ 350 g/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	Indian Institute of Vegetable Research, 2020
Characteristics of technology:	IDM
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/ Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of IPM module for control of DBM in cabbage
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy incidence of fungal diseases in cabbage
Thematic area:	Disease 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-	Use of Chlorpyrifos 20% EC @ 2 l/ha at 30, 60 DAS
T2 –Recommended Practice-	Neem oil 2.5 l/ha at 20 DAP+ <i>Beauveria bassiana</i> 1.15% WP @ 1000 g/ ha at 40 DAP + Need based spray of Emamectin Benzoate 5% SG @ 200 g/ha at 60 DAP
T3- Recommended Practice-	Neem oil 2.5 l/ha at 20 DAP+ <i>Bacillus thuringiensis</i> @ 1000 g/ ha at 40 DAP + Need based spray of Spinetoram 11.70% SC @ 500 ml/ha at 60 DAP
Date of sowing:	
Date of harvesting:	
Source of technology:	IIVR, Varanasi, 2020
Characteristics of technology:	IPM
Name of Crop/Enterprises:	Cabbage
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Crop production + Livestock + Vermicompost
Year/Season:	2023-24/Kharif & Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low income due to poor adoption of Agri-enterprises
Thematic area:	IFS
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cotton (1 ha) + Wheat (1 ha)
T2 –Recommended Practice-	Cotton (0.6 ha) and Chilli (0.4 ha) + Rabi Maize (0.6 ha)
T3- Recommended Practice-	Cotton (0.6 ha) and Chilli (0.4 ha) + Rabi Maize (0.6 ha) + Livestock + Vermicompost production
Date of sowing:	
Date of harvesting:	
Source of technology:	IIFSR, Modipuram 2015
Characteristics of technology:	Sustainability, Regular income generation, higher income per unit area
Name of Crop/Enterprises:	Cotton,Wheat,Chilli,Rabi Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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

Title of on-farm trial:	Assessment of weed management in soybean
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy infestation of weeds
Thematic area:	Weed 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-	Pendimethalin 30 % EC @ 1000 g/ha PE + HW at 30 DAS
T2 –Recommended Practice-	Diclosulam 84 % WDG @ 26 g/ha PE + HW at 30 DAS
T3- Recommended Practice-	Sulfentrazone 39.6 % SC @ 75 g/ha PE + HW at 30 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	DWR, Jabalpur
Characteristics of technology:	Sustainability, cost effective
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	
Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Topramazone 33.6 SC in Chickpea
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy infestation of weeds
Thematic area:	Weed 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-	Pendimethalin 30 % EC @ 1000 g/ha PE + HW at 30 DAS
T2 –Recommended Practice-	Topramazone 33.6 % SC @ 25.2 g/ ha POE at 20 DAS + HW at 30 DAS
T3- Recommended Practice-	Pendimethalin 38.7 % CS @ 775 g/ha PE + HW at 30 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	DWR, Jabalpur
Characteristics of technology:	Sustainability, cost effective
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Natural Farming in Chickpea
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Poor soil health, high cost of cultivation and poor quality produce
Thematic area:	Natural Farming
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-	Chemical farming
T2 –Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 250 kg/ha, Jeevamrit @ 500 l/ha at sowing, 15, 30, 45 DAS (FA), Nimastra and Dashparni Ark @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS
T3- Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha,

	Jeevamrit @ 750 l/ha at sowing, 15, 30, 45 DAS (S & FA), Panch Patti Kadha and Bramhaastra @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज – 1-166 NCONF, Ghaziabad 2022
Characteristics of technology:	Low cost eco-friendly Soil health and produce quality improvement
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming in Pigeonpea
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Poor soil health, high cost of cultivation, Poor quality of produce
Thematic area:	Natural Farming
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional Farming
T2 –Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 250 kg/ha, Jeevamrit @ 250 l/ha at sowing, 15, 30, 45 DAS (FA), Nimastra and Dashparni Ark @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 5 t/ha at 20 DAS
T3- Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 500 l/ha at sowing, 15, 30, 45 DAS (S & FA), Panch Patti Kadha and Bramhaastra @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 5 t/ha at 20 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज – 1-166 NCONF, Ghaziabad 2022
Characteristics of technology:	
Name of Crop/Enterprises:	Pigeonpea
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of HDPS Planting in Cotton
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to low plant population
Thematic area:	Integrated crop management
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Wide spacing planting at 120x60 cm
T2 –Recommended Practice-	HDPS Planting at 90x30 cm with short duration variety
T3- Recommended Practice-	HDPS Planting at 90x20 cm with short duration variety
Date of sowing:	
Date of harvesting:	
Source of technology:	CICR, Nagpur
Characteristics of technology:	High density planting
Name of Crop/Enterprises:	Cotton
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming in Wheat
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Poor soil health, high cost of cultivation, poor quality of produce
Thematic area:	Natural Farming
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional farming
T2 –Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 250 kg/ha, Jeevamrit @ 500 l/ha at sowing, 15, 30, 45 DAS (FA), Nimastra and Dashparni Ark @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 5 t/ha
T3- Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 750 l/ha at sowing, 15, 30, 45 DAS (S & FA), Panch Patti Kadha and Bramhaastra @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 5 t/ha at 20 DAS
Date of sowing:	
Date of harvesting:	

Source of technology:	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज – 1-166, NCONF, Ghaziabad 2022
Characteristics of technology:	Natural farming
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of production technology of Chickpea under soybean – chickpea cropping system
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety and incomplete use of technology in chickpea
Thematic area:	Varietal Evaluation
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old variety and incomplete use of technology
T2 –Recommended Practice-	RVG-202 + Seed treatment with Tricoderma viridae @ 5 g/kg seed + INM (20:60:20:20 kg NPKS/ha) + IPM (neem oil @ 2.5 l/ha + <i>Beauveria bassiana</i> @ 1 kg/ha) + bird perches @ 50/ha + Emamectin benzoate 5 % SG @ 200 g/ha at 75 DAS
T3- Recommended Practice-	RVG-204 + Seed treatment with Tricoderma viridae @ 5 g/kg seed + INM (20:60:20:20 kg NPKS/ha) + IPM (neem oil @ 2.5 l/ha + <i>Beauveria bassiana</i> @ 1 kg/ha) + bird perches @ 50/ha + Emamectin benzoate 5 % SG @ 200 g/ha at 75 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	RVSKVV, Gwalior 2021
Characteristics of technology:	Improved variety
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	Assessment of effective extension methods for TOT of Natural Farming in Soybean
Season & Year	
Problem identified	Poor soil health, high cost of cultivation and poor quality produce

Thematic Area	TOT
Farming situation	Rainfed
Name of Technology Intervention under study	T1- Technology transfer through Training and Field Visit T2- Technology Transfer through FLDs
Farmers Practice	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc.
No. of replication (Farmers)	07

Results / findings

Performance indicators/ parameters	Unit/ details
Gain in Knowledge, Perception Retention of Knowledge, Change in Attitude Adoption of Technology	%

Title	Assessment of knowledge and adoption level of farmers for use of drip and fertigation in Cotton
Season & Year	
Problem identified	Lack of knowledge and poor adoption level for use of drip and fertigation in Cotton
Thematic Area	Impact of Technology
Farming situation	Irrigated
Name of Technology Intervention under study	T1- Study of knowledge level of farmers for use of drip and fertigation T2- Study of adoption level of farmers for use of drip and fertigation
Farmers Practice	Use of conventional method of irrigation in Cotton
No. of replication (Farmers)	20

Results / findings

Performance indicators/ parameters	Unit/ details
Horizontal Spread of Technology, Knowledge level of Farmers, Perception of the Farmers, Adoption level of Technology, Constraints in adoption, Feedback of Farmers	In ha % % % %

Information about Extension OFT:

Title	Assessment of effective extension methods for TOT of Natural Farming in Chickpea
Season & Year	
Problem identified	Poor soil health, high cost of cultivation and poor quality produce
Thematic Area	TOT
Farming situation	Rainfed
Name of Technology Intervention under study	T1- Technology transfer through Training and Field Visit T2- Technology Transfer through FLDs
Farmers Practice	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc.
No. of replication (Farmers)	07

Results / findings

Performance indicators/ parameters	Unit/ details
Gain in Knowledge, Perception Retention of Knowledge, Change in Attitude Adoption of Technology	%

Information about Extension OFT:

Title	Assessment of application method of urea in wheat
Season & Year	Rabi 2023-24
Problem identified	Farmers applied urea before irrigation in wheat which causing severe loss of nitrogen
Thematic Area	Plant Nutrient Management
Farming situation	Irrigated
Name of Technology Intervention under study	T1-Application of urea after Ist irrigation at proper moisture level T2-Application of urea after Ist and IInd irrigation at proper moisture level
Farmers Practice	Application of urea before irrigation in wheat
No. of replication (Farmers)	07

Results / findings

Performance indicators/ parameters	Unit/ details
Plant height, No. of tillers/plant, Earhead length, Yield, Cost of cultivation, Gross return, Net return, B:C ratio	Cm No. Cm q/ha Rs/ha Rs/ha Rs/ha

Information about Home Science OFT:

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

Frontline Demonstrations

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

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Castor	IPNM	RDF 60:40:40:40 NPKS kg/ha + FYM 5 t/ha	Fertilizers	Kharif/2023	4.0	10	Capsules/plant, Branches/plant, Yield, Cost of cultivation, Gross return, Net return & B:C ratio
2	Sorghum	IPNM	100:50:30:05 NPKZn kg/ha + FYM 5 t/ha	Zinc	Kharif/2023	4.0	10	Cob length, Plant height, Yield, Cost of cultivation, Gross return, Net return & B:C ratio
3	Maize	IPNM	120:60:40:05 NPKZn kg/ha + FYM 10 t/ha + Azotobactor @5 g/kg seed	Fertilizer	Rabi 2023-24	4.0	10	Cob length, Plant height, Yield, Cost of cultivation, Gross return, Net return & B:C ratio
4	Okra	Integrated Pest Management	Neem oil 3000 ppm @ 1500 ml/ha at 15 DAS + need based spray of Cyantraniliprole 10% OD @ 900 ml/ha.	Neem oil, Cyantraniliprole 10% OD	Kharif: 2023	0.2	10	Fruits/plant, fruit length, Yield, Cost of cultivation, Gross return, Net return, B:C ratio
5	Chilli	Integrated Disease Management	Seed treatment with Imidacloprid 70 WS @ 10g/kg seed, covering nursery beds with nylon net of 40 mesh, dipping seedling roots in Imidacloprid 17.8 SL @ 0.3 ml/l of water for 20 minutes, growing 3 rows of maize as barrier crops, installation of yellow sticky trap @ 50/ha, Initial rouging of infected plants soon after infection and burn it. spray of Neem oil @ 1lit/ha/ 2-3 times	Pyriproxyfen 10% EC and Fenpropathrin 30% EC	Kharif: 2023	0.4	10	Fruits/plant, fruit length, Yield, Cost of cultivation, Gross return, Net return, B:C ratio

			at 10 days interval + need based spray of insecticides viz., Pyriproxyfen 10% EC @ 500 ml /ha and Fenpropathrin 30% EC @ 250 ml/ha					
6	Onion	Integrated Pest Management	Blue sticky trap @ 50/ha at 10 DAP + Neem oil 3000 ppm @ 600 ml/ ha at 20 DAP + Need based spray of Fipronil 5% SC @ 1 lit/ha	Fipronil 5% SC	Rabi: 2023-24	0.4	10	Weight of bulb, bulb diameter, Yield (q/ha), Cost of cultivation, Gross return, Net return, BC ratio
7	Onion	Integrated Weed Management	Quizalofop ethyl 4% EC + Oxyflurofen 6 % EC @ 1 lit/ha. at 20 DAT + 1 HW at 40 DAT	Quizalofop ethyl 4% EC + Oxyflurofen 6 % EC	Rabi: 2023-24	0.4	10	Weight of bulb, bulb diameter, Yield (q/ha), Cost of cultivation, Gross return, Net return, BC ratio
8	Soybean	Varietal replacement	JS-20-69	Seed	Kharif 2023	0.4	10	Pods/plant, Branches/plant, Yield (q/ha), Cost of cultivation, Gross return, Net return, BC ratio
9	Soybean	Weed Management	Imazethapyr 35%+Imazomox 35% WG @ 70 g/ha PoE at 20 DAS	Herbicide	Kharif 2023	0.4	10	Branches/plant , Pods/plant, Yield (q/ha), Cost of cultivation, Gross return, Net return, B:C ratio
10	Wheat	Varietal replacement	HI-8737	Seed	Rabi: 2023-24	0.4	10	Tillers/plant, Earhead length, Grains/earhead , Yield, Cost of cultivation, Gross return, Net return, B:C ratio
11	Chickpea	Varietal replacement	RVG- 203 Variety	Seed	Rabi: 2023-24	0.4	10	Branches/plant , Pods/plant, Yield, Cost of cultivation, Gross return, Net return, BC ratio
12	Soybean	Variety	JS 20-34	Seed	Kharif/2023	4.0	10	Branch /Plant,

		Evaluation						Pods/Plant , Yield, Cost of cultivation, Gross return, Net return, BC ratio
13	Soybean	Weed management	Propaquizapop 2.5 % + Imazathapyr 3.75% ME @ 2 l/ha at 15 DAS + 1 Kolpa at 30 DAS	Weedicide	Kharif/2023	4.0	10	Branch/plant , Pods /Plant, Yield, Cost of cultivation, Gross return, Net return, B:C ratio
14	Wheat	Varietal Evaluation	HI-8759	Seed	Rabi/2023-24	4.0	10	Tillers/plant, Grains/Earhead , Yield, Cost of cultivation, Gross return, Net return, BC ratio
15	Maize	Pest Management	Use of early maturing variety + seed treatment with Cyantraniliprole 19.8 % + Thiamethoxam 19.8 % FS @ 6 ml/kg seed + Chlorantraniliprole 18.5% SC @ 150 ml /ha at 20, 40 DAS	Chlorantraniliprole 18.5% SC	Rabi/2023-24	4.0	10	Grains/Cob, Cob length, Yield (q/ha), Cost of cultivation, Gross return, Net return, B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	20	September	30
2	Farmers Training	16	July & Orctober	30
3	Media coverage	16	September & February	30
4	Training for extension functionaries	6	July October	30

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Varietal Replacement	JS 2069	Seed	Kharif 2023	20	50	Plant height, No. of branches/plant, No. of pods/plant, Yield, Cost of cultivation, Gross return, Net return, B:C ratio
2	Greengram	Varietal Replacement	IPM 410-3	Seed	Kharif 2023	20	50	Plant height, No. of branches/plant, No. of pods/plant, Yield, Cost of cultivation, Gross return, Net return, B:C ratio
3	Chickpea	Varietal Replacement	RVG 202	Seed	Kharif 2023	20	50	Plant height, No. of branches/plant, No. of pods/plant, Yield, Cost of cultivation, Gross return, Net return, B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	3	September, February	90
2	Farmers Training	6	June, October	180
3	Media coverage	3	September, February	Mass
4	Training for extension functionaries	3	May	90

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	

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	1	1	25	0	25	10	5	15	40
Entrepreneurial development of farmers/youths	1	1	10	5	15	9	6	15	30
WTO and IPR issues									
Others	4	4	40	20	60	40	20	60	120
Total	6	6	75	25	100	59	31	90	190
XI Agro-forestry									
Total									
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production									
Bee-keeping									
Seed production									
Planting material production	1	3	13	2	15	8	2	10	25
Vermi-culture	1	2	10	5	15	9	6	15	30
Value addition									
Sheep and goat rearing									
Para extension workers									
TOTAL									
(C) Extension Personnel									
Productivity enhancement in field crops									
Integrated Pest Management									
Integrated Nutrient management	2	2	20	10	30	18	12	30	60
Protected cultivation technology									
Group Dynamics	1	1	10	5	15	8	2	10	25

[illegible]

B) OFF Campus

[illegible]

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	Farmers& Farm Women	Broad Bed Furrow in Cotton	1	24	6	30	24	6	30	60
February	Farmers& Farm Women	Ridge and Furrow in Cotton	1	24	6	30	24	6	30	60
March	Farmers& Farm Women	Integrated Crop management in Green gram	1	24	6	30	24	6	30	60
April	Farmers& Farm Women	Integrated Crop management in Castor	1	24	6	30	24	6	30	60
May	Farmers& Farm Women	Production Technology of Sesame	1	24	6	30	24	6	30	60
June	Farmers& Farm Women	Weed management in Soybean	1	24	6	30	24	6	30	60
Horticulture										
Feb	FW	Off-season vegetables cultivation	1	15	5	20	5	1	6	26
March	FW	Protective cultivation of vegetable crops	1	15	5	20	5	2	7	27
July	FW	Management of young plants/orchards	1	15	5	20	5	2	7	27
June	FW	Production and Management technology of chilli	1	10	5	15	10	3	13	28
Oct.	FW	Production and Management technology of Onion	1	15	5	20	10	2	12	32
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
January	Farmers & Farm	Concept and management	1	25	0	25	10	5	15	40

	Women	of FPO.								
February	Farmers & Farm Women	Techniques of value addition of agricultural products	1	10	5	15	9	6	15	30
March	Farmers & Farm Women	Natural Farming for sustainable agriculture	1	10	5	15	9	6	15	30
April	Farmers & Farm Women	Conservation of Agricultural Biodiversity	1	10	5	15	9	6	15	30
May	Farmers & Farm Women	Crop Planning for Kharif season crops	1	10	5	15	9	6	15	30
June	Farmers & Farm Women	Organic Farming	1	10	5	15	9	6	15	30
Soil Science										
April	Farmers & Farm Women	Soil fertility management in Kharif crops	1	10	5	15	9	6	15	30
May	Farmers & Farm Women	Soil and Water Conservation	1	10	5	15	9	6	15	30
July November	Farmers & Farm Women	Integrated Nutrient Management	1	10	5	15	9	6	15	30
June	Farmers & Farm Women	Micro nutrient deficiency in crops	1	10	5	15	9	6	15	30
September	Farmers & Farm Women	Nutrient Use Efficiency	1	10	5	15	9	6	15	30
July October	Farmers & Farm Women	Soil and Water Testing	1	10	5	15	9	6	15	30

2. Off Campus

2. ON Sample

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	Farmers& Farm Women	Inter cropping in different crops	1	24	6	30	24	6	30	60
August	Farmers& Farm Women	Integrated Nutrient Management in Soybean	1	24	6	30	24	6	30	60
September	Farmers& Farm Women	Production Technology of Mustard	1	24	6	30	24	6	30	60
October	Farmers& Farm Women	Weed management in Chickpea	1	24	6	30	24	6	30	60
November	Farmers& Farm Women	Inter cropping in different crops	1	24	6	30	24	6	30	60

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
December	Farmers& Farm Women	Inter cropping in different crops	1	24	6	30	24	6	30	60
Horticulture										
May	FW	Nursery raising technology of vegetable crops	1	20	2	22	6	2	8	30
Sep	FW	Production technology of tomato	1	20	2	22	6	2	8	30
Jan	FW	Production technology of cucumber in nethouse	1	20	2	22	6	2	8	30
June	FW	Production technology of guava	1	20	2	22	6	2	8	30
July	FW	Drip and fertigation technology of papaya	1	20	2	22	6	2	8	30
Aug	FW	Production technology of chilli	1	20	2	22	6	2	8	30
May	FW	Production technology of safedmusli	1	20	2	22	6	2	8	30
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
July	Farmers & Farm Women	Natural Farming for sustainable agriculture	1	10	5	15	9	6	15	30
August	Farmers & Farm Women	Multiple cropping patterns to maximize farmer’s income	1	10	5	15	9	6	15	30
September	Farmers & Farm Women	Crop Planning for Rabi season crops	1	10	5	15	9	6	15	30
October	Farmers & Farm Women	Organic Farming	1	10	5	15	9	6	15	30
November	Farmers & Farm Women	Group Marketing g app prices to fetch high price of agricultural	1	10	5	15	9	6	15	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		produce								
December	Farmers & Farm Women	Entrepreneurial development of farmers/ youths	1	10	5	15	9	6	15	30
Soil Science										
May	Farmers & Farm Women	Soil fertility management	1	10	5	15	9	6	15	30
June	Farmers & Farm Women	Soil and Water Conservation	1	10	5	15	9	6	15	30
August December	Farmers & Farm Women	Integrated Nutrient Management	1	10	5	15	9	6	15	30
July	Farmers & Farm Women	Micro nutrient deficiency in crops	1	10	5	15	9	6	15	30
October	Farmers & Farm Women	Nutrient Use Efficiency	1	10	5	15	9	6	15	30
August November	Farmers & Farm Women	Soil and Water Testing	1	10	5	15	9	6	15	30

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	13			325			13			338
Kisan Mela	1			2000			20			2020
Kisan Ghosthi	2			300			5			305
Exhibition	2			2000			50			2050
Film Show	12			600			20			620
Method Demonstrations	5			125			5			130
Farmers Seminar	2			60			2			62
Workshop	8			80			8			88
Group meetings	20			Mass			13			13
Lectures delivered as resource persons	12			Mass			-			
Newspaper coverage	12			Mass			-			
Radio talks	10			Mass			-			
TV talks	8			8000			-			8000
Popular articles	13			325			-			325
Extension Literature	1			2000			-			2000
Advisory Services	104			66000			366			66366
Scientific visit to farmers field	24			360			10			370
Farmers visit to KVK	60			1500			100			1600
Diagnostic visits	12			120			10			130
Exposure visits	2			50			-			50
Ex-trainees Sammelan	2			60			5			65
Soil health Camp	2			60			5			65
Animal Health Camp	2			50			5			55
Agri mobile clinic										
Soil test campaigns	2			100			5			105
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	2			50						50
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	5			250			25			275
Others (pl. specify)										
Total	309			79090			556			85082

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS	Soybean	RVS 24	300
PULSES			
	Chickpea	RVG 204	300
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Acid lime	Sai Sarvati	500
	Guava	L-49	500
SPICES	Chilli	Navtej	75000
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	Asina Fetida	12	5000
2	NADEP		6	1000
3				

BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle		Gir, HF	2+2	
SHEEP AND GOAT		Jamunapari, Sirohi	10+1	
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
	Quarterly	2000

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: ...5....(no.)

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

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

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Rasgaon	Segaon	35
2	Borgaon	Goganwa	18
3	Pipliyabavadi	Bhagwanpura	30 km
4			
5			
6			
7			
8			

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

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	Hot Air Oven	1	Working
3	Hot plate (chulha), Lighter, Tube	1	Working
4	Pressure Regulator + Gas Cylinder	1	Working
5	Sterling Servo Stabilizer 5 KVA	1	Working
6	Caption Automatic Voltage Stabilizer 3 KVK	1	Working
7	Digital pH meter	1	Working
8	Grinder	1	Working
9	Rotary Shaker & Lab Stirrer	1	Working
10	Wooden Rack	1	Working
11	Fisher type Agate Pestle Mortar	1	Working
12	Demineralizer	1	Working
13	Spectrophotometer	1	Working
14	Micro Kjeldhal Distillation Apparatus	1	Working
15	Electronin Automatic Macro Block Digestion System	1	Working
16	Shimadzu Electronic Analytical Balance AUC 120	1	Working
17	Hot Plate	1	Working
18	Digital Conductivity Meter	1	Working
19	Kelpluse Scruber System	1	Working
20	Electronic Kelpluse	1	Working
21	Mridaprikshak soil testing mini lab	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	25	
Water Samples				
Total	1000	1000	25	

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Scientific and Diagnostic advisory
Department of Horticulture	Scientific and Diagnostic advisory
Department of Animal Husbandry	Animal Health Camps and advisories
Department of Agriculture Engineering	Scientific Advisory and Trainings
Govt. Degree Colleges of the district	Internships to students on different aspects of Agriculture as per New Education Policy
NGOs	Training and advisories
Ring Partner KVKs	Sharing technical Informations

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

Yes/No

Name of Programme	Nature of linkage
Kisan Mela, Kisan Goshthis and Special Programmes	Farmers mobilization
Trainings	KVK Scientist act as expert trainer
FFS	KVK Scientist act as subject expert facilitator
Plannning and designing of FLDs	KVK help in implementation of Cluster FLDs conducted by ATMA

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
April	Awareness programme, Training	130
May	Awareness programme, Training	130
June	Awareness programme, Training	130
July	Demo	8
August	Awareness programme, Training	130
September	Awareness programme, Training	130
October	Awareness programme, Training	130
November	Awareness programme, Training	130
December	Awareness programme, Training	130
January	Awareness programme, Training	130
February	Awareness programme, Training	130
March	Awareness programme, Training	130

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4784 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS-20-34, JS-20-69, JS-20-29, JS-20-116, JS-20-94, JS-20-98, JS-335, JS-93-05, JS-95-60, RVS-76, RVS-18, RVS-24, NRC-86, NRC-7, NRC-37, NRC-127, RVS-2001-4, NRC 142, NRC 150, RVSM 35	20 varieties	281
Green gram	Kharif	PDM-139, IPM-02-03, IPM-02-14, IPM-410-3, MH-421, IPM 205-7	6 varieties	84
Black gram	Kharif	NUL-7, Shekhar-3, Shekhar-2, PU-1, PU-31, IU-92-18	6 varieties	84
Maize	Kharif	DKC 9126, DKC 7204, DKC 9226, MM 9375, MM 9333, ADV 92-93, Sugar 75, Baby corn, Sathi, Red Maize,	10 varieties	140
Sorghum	Kharif	RVJ-1862, Hybrid-3201, CSV 27, CSV 23	4 varieties	56
Pigeon pea	Kharif	Rajiv Lochan, Rajeshwari, GJP-1, Navapur Arhar, Pusa 992, Pusa-16, JKM-189, TJT-501, Kudarat-3, KBT-1	10 varieties	140
Castor	Kharif	Durga-7, Shakti-7, Sarathi-9	3 varieties	42
Small millets	Kharif	Barnyard millet, Foxtail millet, Finger millet, Proso millet, Kodo millet, Little millet, Brown	8 varieties	112

Crop	Season	Variety	Particulars /details	Area (Sq m)
		top millet, Seteria millet		
Wheat	Rabi	HI 1650, HI 1655, HI 8830, GW 513, GW 551, GW 173, GW 366, HI 1544, HD 2932, GW 322, HI 8777, MP 3336, HI 8713, HI 8737, GW 273, HD 2987, HI 8759, LOK 1, HI 1605, HI 8627, HI 8663, RVW 4106, HI 1418, DL 788-2, HI 1563, HI 8498, JW 3288, HI 1531, HI 1500, HW 2004, Kudarat 9,	31 varieties	434
Rabi Maize	Rabi	DKC 9217, DKC 9226, DKC 9081, P 3401	4 varieties	56
Lentil	Rabi	RVL 31, RVL 11-6	2 varieties	28
Chickpea	Rabi	RVG 201, RVG 202, RVG 203, RVG 204, RVG 205, JG 11, JG 14, Vishal, JG 16, JAKI 9218, JG 63, JG 130, JG 6, JG 12, Phule Vikram, Pusa Green, Pusa Manav, NBG 49, NBG 2144, NBG 3043, NBG 2171, PKV 4, Virat, RVKG 101, RVSJKG102, Kripa	26 varieties	364
Pea	Rabi	Arkel	1 variety	14
Mustard	Rabi	RVM 2, JM 3, SMI 0.6 x 0.6 (RVM 2)	3 varieties	42
Safflower	Rabi	JSF1 (Non spiny), JSF 73	2 varieties	28
Fenugreek	Rabi	RMT 303, RMT 365	2 varieties	28
Coriander	Rabi	Pant Haritma	1 variety	14
Kalonji	Rabi	AN 20	1 variety	14
Isabgoal	Rabi	RVI 4	1 variety	14

Crop	Season	Variety	Particulars /details	Area (Sq m)
Chandrasoor	Rabi	LSM 7	1 variety	14
Sua (Dil)	Rabi	AD 1	1 variety	14
Fennel	Rabi	RF 45	1 variety	14
Ajwain	Rabi	AA 1	1 variety	14
Quinova	Rabi	KCQ 1	1 variety	14
Asgandh (seed)	Rabi	JA 134	1 variety	14

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Scion Block	Saplings production	1000	1000 Plants
Medicinal Block	25 Medicinal Plants	1000	500 Plants
Net House	Seedlings production	730	100000 seedlings
Dairy	Gir, HF	4	1600 litres
Gotary	Sirohi	12	10 kids
Vermicompost	12 pit	100	10000 Kg
NADEP Pit	5	15	5000 Kg
Azolla Unit	5	15	500 Kg

KVK, Lahar (Bhind), M.P.**1.1 Name of the Programme Coordinator/Sr. Scientist and Head with phone & mobile No**

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. S.P. Singh	-	9479309680	kvk.bhind@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. S.P. Singh	Pr. Scientist and Head	LPM	167200 (Level 14)	03.01.2015	2022	9479309680	singhsatendra57@gmail.com	
2	Subject Matter Specialist	Dr. Rupendra Singh	Sr. Scientist	Agri Extension	147900 (Level 13A)	03.02.2007	2021	8827545936	rupendrak2011@gmail.com	
3	Subject Matter Specialist	Dr. Awadhesh Singh	Sr. Scientist	Agri economics	147900 (Level 13A)	19.02.2007	2019	9406885471	dr.awdhesh_singh@rediffmail.com	
4	Subject Matter Specialist	Dr. K.V. Singh	Sr. Scientist	Horticulture	147900 (Level 13A)	12.03.2007	2021	9424510006	dr.karanvir@rediffmail.com	
5	Subject Matter Specialist	Dr. N.S. Bhadauriya	Scientist	Genetics & Plant Breeding	92600 (Level 12)	27.01.2007	2021	9329435110	nsbhadauriya@yahoo.co.in	
6	Subject Matter Specialist	Vacant	-	Agronomy	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	Plant Protection	-	-	-	-	-	-
8	Programme Assistant	Dr. B.P.S. Raghuvanshi	Senior Technical Officer	Soil Science/Lab Technician	75700 (Level 13)	09.07.2007	2021	8319145630	drbraghu@gmail.com	
9	Computer Programmer / Programme Assistant	Vacant	-	Computer Programmer	-	-	-	-	-	-
10	Farm Manager	Sh. Suneel Shakya	Senior Technical Officer	Agriculture Extension/Farm Manager	63100 (Level 10)	17.02.2011		7697881348	suneelsakya@gmail.com	-
11	Assistant	Sh. Prashant Pandey	Office Superintendant cum accountant	Office Superintendant cum accountant	42000 (Level 9)	29.12.2016		8839134035	prashant4u97@yahoo.co.com	
12	Jr. Stenographer / Comp. Operator	Sh. Nishant Prabhakar	Jr. Stenographer cum Comp. Operator	Jr. Stenographer cum Comp. Operator	31400 (Level 7)	14.08.2019	2022	9589395192	nishantprabhakar8@gmail.com	
13	Driver	Sh. Rajesh Raikwar	Driver cum mechanic	Driver cum mechanic	33100 (Level 6)	09.07.2008	2019	7987015092	-	
14	Driver	Sh. OPS Bhadauriya	Driver cum mechanic	Driver cum mechanic	32100 (Level 6)	08.07.2008	2021	7509161220	-	
15	Supporting staff	Sh. Ramesh Parihar	Peon	Peon	30800	21.08.1984		9516189739	-	
16	Supporting staff	Vacant	-	Peon	-	-	-	-	-	-

1.3 Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.40
2	Under Demonstration Units	0.90
3	Under Crops	15.48
4	Orchard/Agro-forestry	0.85
5	Others (specify)	1.403
Total		20.033

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	2015	-	-	-	-	Completed
2	Farmers Hostel	ICAR	2015	-	-	-	-	Completed
3	Staff Quarters (6)	ICAR	2015	-	-	-	-	Completed
4	Demonstration Units Poultry	State Govt.	2019	-	3000000	-	-	Completed
	Demonstration Units Goatery	State Govt.	2017	-		-	-	Completed
5	Fencing	State Govt.	2018	-	1000000	-	-	60% Completed
6	Rain Water harvesting system	State Govt.	2016	-	49000	-	-	Completed
7	Threshing floor	-	-	-	-	-	-	No
8	Farm godown	-	-	-	-	-	-	No

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2005	3,06,918	3576	Condemned
Motor Cycle 2	2004	47,799	48,869	Condemned
Bolero(Jeep)	2004	4,08,558	3,05,092	Condemned
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2004	17411	Working
Xerox Machine	-	-	-
Generator	2022	38330	Working
Video Camera	-	-	-
Computer, Laser Printer	2021	50000	Working
UPS 600 VA	-	-	-
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	2020	9000	Working
Inverter Luminous	2022	5500	Working
Inverter Battery (2)	2020	15930	Working
Inverter Battery	2022	16500	Working

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

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

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	Agriculture + Animal Husbandry	Kharif- Pearl millets, Sorghum, Paddy, Sesame Rabi- Mustard, Wheat, Chickpea Zaid- Fallow, Summer moong AH- Buffalo, Goat, Cattle, Poultry
2	Agriculture + Horticulture	Kharif- Pearl millets, Sorghum, Paddy, Sesame Rabi- Mustard, Wheat, Chickpea Zaid- Fallow, Summer moong Horti- Vegetable pea, Tomato, Chilli, Brinjal, Guava and Papaya

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

S. No.	Agro-climatic Zone	Characteristics
1	Zone VII, Gird	22 0 43 ' N latitude and 76 0 54 E longitude mean annual rainfall 746.1 mm. The mean maximum and minimum temperature range is between 30-45°C for the month of March to June and Minimum temperature ranging Oct to Mar 2 to 25°C
2	Sub tropical	
3	Intermediate	

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (Zone VII, Gird)

Strength	Weakness	Opportunities	Threats
- Multiple option for farmers agriculture production - Farmer can decrease the cost of cultivation through natural farming - Zaid fallow land used for cultivation - Diversification for horticulture crops - Sufficient Availability of productive livestock population	- Farming is labour intensive and requires expertise - Low yield due to weed infestation and disease pest attack in crops. - Low yield due to poor quality seed and inadequate fertilizer - Unawareness about nursery management techniques in vegetables and spices crops. - Limited knowledge about food preservation and agri based entrepreneurship. - Lack of awareness about other Horticulture enterprise - Low milk yield due to Improper management & poor feeding of animals. - Low milk production due to endo & ecto parasite infestation. - High Buffalo calf mortality due to warm infestation. - Liver fluke of goats	- Time for increase millets (Pearl millet and Sorghum) existing area in the district. - Global market for need/farm size based. machinery/technology - Decrease inflow of migrant labour - Liberal policy of government regarding subsidy and employment generation. - Capacity building of scientist/ engineers/manufactures/farmers. - Eco-friendly environment. - Waste scope of natural farming. - Waste option of livestock production with introduction of kadaknath poultry - More scope of increase area in fruit, vegetables and spices crops in the district - Development of dairy and millet products and bio products as entrepreneurship for rural youth	- Climate change and sustainability of agriculture. - Farmers are not getting appropriate rates of their farms and animal husbandry produce. - Small agriculture industry are not available for economic upliftment of farmers - Poor quality and exposure of farm machinery. - Scarcity of farm labour due to migration. - Poor infrastructure and connectivity. - Area covered with Chambal ravines.

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	4459 km ²
Forest	3320
Waste Land	37691
Cultivable waste and alkaline land	22420
Pastures	18856
Bushes	522
Current Fallow	1962
Other Fallow	4723
Agricultural Land	341382
Area Sown	403400
Kharif	102000
Rabi	312520
Zaid	1360
Cropping Intensity	121.82%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	182000
2	Well	669000
3	Tube well	181000
4	Ponds	4000
5	Others	18000

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep soil	-	350.40
2	Medium deep soil	-	77.0
3	Shallow soil	-	17.20

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	14000	59500000	4250
2	Sorghum	10380	25119600	2420
3	Pearl millet	60560	152611200	2520
4	Piegon pea	4000	5140000	1285
5	Green gram	3080	4296600	1395
6	Blackgram	1410	1452300	1030
7	Sesame	13500	5535000	410
8	Wheat	128600	588988000	4580
9	Mustard	156600	297540000	1900
10	Chickpea	17500	36050000	2060
11	Field Pea	7400	15984000	2160
12	Lentil	4300	5848000	1360
13	Barley	3500	11690000	3340
14	Linseed	100	58000	580

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	28.9	The mean maximum and minimum temperature range is between 30-45 ⁰ C for the month of March to June and Minimum temperature ranging Oct to Mar 2 to 25 ⁰ C	
Feb, 22	6.3		
Mar, 22	0.0		
Apr, 22	0.0		
May, 22	7.2		
Jun, 22	23.7		
July, 2022	266.5		
Aug., 2022	226.1		
Sept., 2022	229.8		
Oct. 2022	132.3		
Nov. 2022	0		
Dec. 2022	0		

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	156579	 MT.	1.5-8 kg/day
Buffalo	202460	 MT.	3.5-7.5 kg/day
Sheep			
<i>Crossbred/ Indigenous</i>	12306	 MT wool	300-400 g/Sheep
Goats	226873	 MT	250-400 ml/day
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Gohad	Gohad	Barkhadiya	Pearl millet, Sorghum, sesame, Blackgram, Mustard, Wheat, Chickpea, Livestock, Vegetables and fodder crops.	* Low yield due to weed infestation and disease pest attack in crops * Low yield due to poor quality seed and inadequate fertilizer *Low milk yield due to Improper management & poor feeding of animals. *Low milk production due to endo & ecto parasite infestation. *High Buffalo calf mortality due to warm infestation. Liver fluke of goats	*Crop Diversification *Quality Seed/Planting material availability *Natural Resource Management (Soil health and rain water harvesting) *INM, IPM, IWM, IDM in major crops *Feeding management in Live stock *Disease management in livestock * Breed improvement of livestock *Parasite control of livestock.
2	Mehgaon	Mehgaon	Ghasipura			
3	Roun	Roun	Mangarh			
4	Lahar	Lahar	Jamuha			
5	Lahar	Lahar	Baispura			
6	Lahar	Lahar	Maseran			
7	Lahar	Lahar	Chiruli			
8	Lahar	Lahar	Baruanpra			
9	Ater	Ater	Enthar			
10	Lahar	Daboh	Amaha			
11	Lahar	Lahar	Udyotpura			
12	Bhind	Bhind	Bhagmal ka pura			
13	Ater	Ater	Mahapur			
14	Roun	Roun	Pratappura			
15	Roun	Roun	Gorai			
16	Lahar	Lahar	Birkhadi			
17	Ater	Ater	Sakraya			

18	Lahar	Lahar	Chiroli		*Low Yield of Vegetables, Spices & Fruits *Non availability of quality seed and Planting material	
19	Lahar	Lahar	Khajuri			
20	Lahar	Lahar	Lapwaha			
21	Lahar	Lahar	Nanpura			

Priority / Thrust areas

S. No.	Particulars
1.	I. Promotion of Millets crops-Jwar, Bajra II. Promotion of bio fortified varieties of different cereals, oilseed, pulse crop
2.	I. Promotion of indigenous cattle II. Promotion of Kadaknath rearing in backyard system III. Breed improvement of desi/local buffalo and goats
3.	I. Promotion in vegetables and fruit crops II. Introduction of exotic vegetables

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	120	11	60

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	1480	322	5137

Seed Production (Qtl.)	Planting material (Nos.)
211	20000

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	RCT	Wheat	Low yield due to delay in sowing of wheat crop	Assessment of zero tillage sowing of wheat crop	-	-	-	-	Zero tillage seed drill
2	OTH	Goat	Not aware about the benefit of goat farming	Assessment of goat farming economics	-	-	-	-	-
3	ITK	Cow	Costly Treatment of allopathic	Assessment the effect of leaves of Dalbergia sissoo to control of diarrhea in animals.	-	-	-	-	Dalbergia sissoo leaves
4	ITK	Goat	Costly Treatment of allopathic and frequently occurs in goat	Assessment the effect of flower of Hibiscus rosa-sinensis to control of diarrhea in Goat	-	-	-	-	Hibiscus rosa-sinensis flower
5	ITK	Cabbage	Heavy infestation of sucking pest	Assessment of effectiveness of cow urine from protection of cabbage from pest	-	-	-	-	Cow urine
6	ITK	Brinjal	Heavy infestation of Shoot and Fruit Borer	Assessment effectiveness of Tobacco soaked water in Brinjal to control Shoot and Fruit Borer	-	-	-	-	Tobacco Leaves
7	HOV	Okra	Low economic return due to lack of improved variety	Assessment of early improved variety and hybrid of Okra	-	-	-	-	Hybrid Seed (Navya)
8	IPM	Bottle guard	Low economic return due to low yield	Assessment of integrated pest management of fruit fly in bottle guard	-	-	-	-	NSKE @ 5% + Cyntraniliprole 10.26 % OD a.i 90 g
9	HOV	Tomato	Low economic return due to lack of improved variety	Assessment of Improved Variety of Tomato	-	-	-	-	Hybrid Seed (Grand Marshal), OP S-22
10	HOV	Cabbage	Low economic return due to lack of improved variety	Assessment of improved variety of cabbage	-	-	-	-	Seed Hybrid (BC-90), OP Parvati Super
11	VR	Blackgram	Low yield due to old	Assessment of High yielding variety of black gram Kota Urd-	-	-	-	-	Seed

			unidentified variety of black gram	3.					
12	VR	Paddy	Low yield due to lack of irrigation water during grain forming stage	Assessment of short duration variety of Rice JR-81	-	-	-	-	Seed
13	VR	Gram	Low yield due to old unidentified variety	Assessment of High yielding variety of Gram RVG-204	-	-	-	-	Seed
14	VR	Wheat	Low yield due to old variety of Wheat	Assessment of high yielding variety of Wheat PUSA Tejas(HI-8759)	-	-	-	-	Seed
15	NF	Wheat	Low organic carbon content and soil microbes in soil	Assessment of natural farming input in wheat (triticum aestivum).	-	-	-	-	Besan, Jaggeri
16	INM	Sesame	Low yield due to imbalance use of fertilizer	Assessment of Sulphur fertilizer in sesame crop	-	-	-	-	Sulphur Fertilizer
17	LPM	Buffalo calf		-	Demonstration of scheduled deworming for control of calf mortality	-	-	-	Dewormer
18	LPM	Goats		-	Demonstration of regular deworming of goats for the control of liver fluke	-	-	-	Dewormer
19	ICM	Marigold		-	Demonstration of GA3 foliar spray on growth and flowering of marigold	-	-	-	GA3
20	IWM	Okra		-	Demonstration on Weed management in Okra	-	-	-	Herbicide (Fluchloralin)
21	IWM	Onion		-	Demonstration on Weed management in Kharif Onion	-	-	-	Herbicide (oxyfluorfen 23.5% EC)
22	ICM	Chilli		-	Demonstration of plant growth regulator on chilli	-	-	-	PGRs (NAA and GA3)
23	Nutrition	Pearl		-	Demonstration	-	-	-	Seed

	Sensitive Agriculture	Millet			on of pearl millet production in drought mitigation and nutrition sensitive agriculture				
24	Nutrition Sensitive Agriculture	Pearl Millet		-	Demonstration of pearl millet bio-fortified variety under nutrition sensitive agriculture	-	-	-	Seed
25	SFM	Pearl Millet		-	Demonstration of Nutrient management in Pearl millet	-	-	-	DAP
26	SFM	Mustard		-	Demonstration of Sulphur fertilizer in Mustard crop	-	-	-	Sulphur fertilizer
27	SFM	Wheat		-	Demonstration on the effect of zinc in wheat crop	-	-	-	Zinc

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
RCT	01	-	-	-	-	-	-	-	-	01
ITK	-	-	-	-	02	-	-	-	-	02
HOV	-	-	-	-	03	-	-	-	-	03
IPM	-	-	-	-	01	-	-	-	-	01
VR	02	-	02	-	-	-	-	-	-	04
NF	01	-	-	-	-	-	-	-	-	01
INM	-	01	-	-	-	-	-	-	-	01
TOTAL	04	01	02	-	06	-	-	-	-	13

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
OTH	-	-	-	01	-	-	-	01
ITK	01	-	-	01	-	-	-	02
TOTAL	01	-	-	02	-	-	-	03

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of zero tillage sowing of wheat crop
Problem diagnosed	Low yield due to delay in sowing of wheat crop
Farmers' Practices	Farmers Practice (Sowing of wheat after burning Rice residues. (FP)
Details of technologies selected for assessment	T ₁ Zero Till sowing of wheat. in residual moisture
	T ₂ Zero Till sowing of wheat. With pre sowing irrigation
Source of technology	GBPUAT, Pantnagar
Plot size	0.20 ha (1 ha)
No. of farmers	05
Total cost	Rs. 6200
Critical input	Zero tillage seed drill
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Effective Tillers/plant, Advancement in planting, Grain Yield, Gross and Net Income & B:C ratio

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of zero tillage sowing of wheat crop
Year/Season:	Rabi 2023
Farming situation:	Irrigated, clay loam, Cropping pattern paddy-Wheat
Problem diagnosis:	Low yield due to delay in sowing of wheat crop
Thematic area:	RCT
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Farmers Practice (Sowing of wheat after burning Rice residues. (FP)
T2 –Recommended Practice-	T2- Zero Till sowing of wheat. in residual moisture
T3- Recommended Practice-	T3 – Zero Till sowing of wheat. With pre sowing irrigation
Date of sowing:	-
Date of harvesting:	-
Source of technology:	GBPUAT, Pantnagar
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Crop / Enterprise	Goat	
Title of on farm trial	Assessment of goat farming economics	
Problem diagnosed	Not aware about the benefit of goat farming	
Farmers' Practices	No calculation of proper economics	
Details of technologies selected for assessment	T ₁	Farmer having 0-5 Goats
	T ₂	Farmer having 5-10 Goats
	T ₃	Farmer having above 10 Goats
Source of technology	ICAR-CIRG, Makhdoom, Farah (Mathura) U.P.	
Plot size	-	
No. of farmers	20	
Total cost	Rs. 16500	
Critical input	-	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Milk yield, Gross return, Net Income, B:C ratio in group basis	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of goat farming economics
Year/Season:	2023
Farming situation:	All Situation
Problem diagnosis:	Not aware about the benefit of goat farming
Thematic area:	OTH
No of trials:	
No. of farmers involved	20
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Farmer having 0-5 Goats
T2 –Recommended Practice-	T2 – Farmer having 5-10 Goats
T3- Recommended Practice-	T3 – Farmer having above 10 Goats
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-CIRG, Makhdoom, Farah (Mathura) U.P.
Characteristics of technology:	
Name of Crop/Enterprises:	Goat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Crop / Enterprise	Cow	
Title of on farm trial	Assessment the effect of leaves of Dalbergia sissoo to control of diarrhea in animals.	
Problem diagnosed	Costly Treatment of allopathic	
Farmers' Practices	Allopathic treatment	
Details of technologies selected for assessment	T ₁	500 gm paste of leaves of Dalbergia sissoo mixed with 1ltr water and given to adult animals 2-3 times per day for 2-3 days
	T ₂	
Source of technology	Indigenous technology knowledge –ICAR 2020	
Plot size	0.25 ha	
No. of farmers	10	
Total cost	Rs. 2200	
Critical input	Dalbergia sissoo leaves	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment the effect of leaves of Dalbergia sissoo to control of diarrhea in animals.
Year/Season:	2023
Farming situation:	All situation
Problem diagnosis:	Costly Treatment of allopathic
Thematic area:	ITK
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	500 gm paste of leaves of Dalbergia sissoo mixed with 1ltr water and given to adult animals 2-3 times per day for 2-3 days
T2 –Recommended Practice-	-
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indigenous technology knowledge –ICAR 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Cow
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Crop / Enterprise	Goat
Title of on farm trial	Assessment the effect of flower of Hibiscus rosa-sinensis to control of diarrhea in Goat
Problem diagnosed	Costly Treatment of allopathic and frequently occurs in goat
Farmers' Practices	Allopathic treatment
Details of technologies selected for assessment	T ₁ Extract of 2-3 flowers of Hibiscus rosa-sinensis given 2-3 times to goat
	T ₂ -
Source of technology	Indigenous technology knowledge –ICAR 2020
Plot size	-
No. of farmers	10
Total cost	Rs. 2600
Critical input	Hibiscus rosa-sinensis flower
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Cost of treatment, No. of day for recovery, Yield, Cost Saving

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment the effect of flower of Hibiscus rosa-sinensis to control of diarrhea in Goat
Year/Season:	2023
Farming situation:	All situation
Problem diagnosis:	Costly Treatment of allopathic and frequently occurs in goat
Thematic area:	ITK
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Extract of 2-3 flowers of Hibiscus rosa-sinensis given 2-3 times to goat
T2 –Recommended Practice-	-
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indigenous technology knowledge –ICAR 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Goat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Crop / Enterprise	Cabbage	
Title of on farm trial	Assessment of effectiveness of cow urine from protection of cabbage from pest	
Problem diagnosed	Heavy infestation of sucking pest	
Farmers' Practices	Use of Chemical Pesticide	
Details of technologies selected for assessment	T ₁	Foliar application of cow urine @ 30%
	T ₂	-
Source of technology	Indigenous technology knowledge –ICAR 2020	
Plot size	0.025 ha	
No. of farmers	10	
Total cost	Rs. 2500	
Critical input	Cow urine	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Cost of treatment, No. of day for recovery	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of effectiveness of cow urine from protection of cabbage from pest
Year/Season:	2023
Farming situation:	Irrigated, Loamy to sandy loam
Problem diagnosis:	Heavy infestation of sucking pest
Thematic area:	ITK
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Foliar application of cow urine @ 30%
T2 –Recommended Practice-	-
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indigenous technology knowledge –ICAR 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Cabbage
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment effectiveness of Tobacco soaked water in Brinjal to control Shoot and Fruit Borer	
Problem diagnosed	Heavy infestation of Shoot and Fruit Borer	
Farmers' Practices	Use of Chemical Pesticide	
Details of technologies selected for assessment	T ₁	Foliar application of Tobacco soaked water (1:10 Ratio) at 35 Days after transplant and repeated at 15 days interval
	T ₂	
Source of technology	Indigenous technology knowledge –ICAR 2020	
Plot size	0.025 ha	
No. of farmers	10	
Total cost	Rs. 9375	
Critical input	Tobacco Leaves	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	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)	
Title of on-farm trial:	Assessment effectiveness of Tobacco soaked water in Brinjal to control Shoot and Fruit Borer
Year/Season:	2023
Farming situation:	Irrigated, Loamy to sandy loam
Problem diagnosis:	Heavy infestation of Shoot and Fruit Borer
Thematic area:	ITK
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Foliar application of Tobacco soaked water (1:10 Ratio) at 35 Days after transplant and repeated at 15 days interval
T2 –Recommended Practice-	-
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indigenous technology knowledge –ICAR 2020
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7

Crop / Enterprise	Okra	
Title of on farm trial	Assessment of early improved variety and hybrid of Okra	
Problem diagnosed	Low economic return due to lack of improved variety	
Farmers' Practices	Using local variety	
Details of technologies selected for assessment	T ₁	Farmers Practice
	T ₂	VRO 22
	T ₃	Navya (Hybrid)
Source of technology	IIVR, Varanasi, 2018	
Plot size	0.20 ha	
No. of farmers	05	
Total cost	Rs. 13750	
Critical input	Hybrid Seed (Navya)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, Sex Ratio	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of early improved variety and hybrid of Okra
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low economic return due to lack of improved variety
Thematic area:	HOV
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Farmers Practice
T2 –Recommended Practice-	T2- VRO 22
T3- Recommended Practice-	T3- Navya (Hybrid)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR, Varanasi, 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-8

Crop / Enterprise	Bottle Guard	
Title of on farm trial	Assessment of integrated pest management of fruit fly in bottle guard	
Problem diagnosed	Low economic return due to low yield	
Farmers' Practices	Use of chemical insecticide	
Details of technologies selected for assessment	T ₁	Farmers Practice
	T ₂	IPM Practice (Maize plantation as border crop + mulching around the plant + Spraying NSKE @ 5% + Cytraniliprole 10.26 % OD a.i 90 g
Source of technology	IIVR, 2009 and 2011 respectively	
Plot size	0.20 ha	
No. of farmers	05	
Total cost	Rs. 6250	
Critical input	NSKE @ 5% + Cytraniliprole 10.26 % OD a.i 90 g	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Fruit Yield, No. of fruits/plant	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of integrated pest management of fruit fly in bottle guard
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Low economic return due to low yield
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Farmers Practice
T2 –Recommended Practice-	T2- IPM Practice (Maize plantation as border crop + mulching around the plant + Spraying NSKE @ 5% + Cytraniliprole 10.26 % OD a.i 90 g
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR, 2009 and 2011 respectively
Characteristics of technology:	
Name of Crop/Enterprises:	Bottle Guard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of Improved Variety of Tomato	
Problem diagnosed	Low economic return due to lack of improved variety	
Farmers' Practices	Using local variety	
Details of technologies selected for assessment	T ₁	Farmers Practice
	T ₂	S-22 (OP)
	T ₃	Grand Marshal (F1)
Source of technology	NSC New Delhi-2009 & 2010 respectively	
Plot size	0.20 ha	
No. of farmers	05	
Total cost	Rs. 9375	
Critical input	Hybrid Seed (Grand Marshal), OP S-22	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, Fruit/Plant	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of Improved Variety of Tomato
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Low economic return due to lack of improved variety
Thematic area:	HOV
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Farmers Practice
T2 –Recommended Practice-	T2- S-22 (OP)
T3- Recommended Practice-	T3- Grand Marshal (F1)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NSC New Delhi-2009 & 2010 respectively
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Crop / Enterprise	Cabbage	
Title of on farm trial	Assessment of improved variety of cabbage	
Problem diagnosed	Low economic return due to lack of improved variety	
Farmers' Practices	Using local variety	
Details of technologies selected for assessment	T ₁	Parvati Super (OP)
	T ₂	BC-90 (F1)
Source of technology	NSC New Delhi-2011 & 2012 respectively	
Plot size	0.20 ha	
No. of farmers	05	
Total cost	Rs. 7500	
Critical input	Seed Hybrid (BC-90), OP Parvati Super	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, Longevity of intact flower	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of improved variety of cabbage
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Low economic return due to lack of improved variety
Thematic area:	HOV
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Farmers Practice
T2 –Recommended Practice-	T2- Parvati Super (OP)
T3- Recommended Practice-	T3- BC-90 (F1)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NSC New Delhi-2011 & 2012 respectively
Characteristics of technology:	
Name of Crop/Enterprises:	Cabbage
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Crop / Enterprise	Black gram
Title of on farm trial	Assessment of High yielding variety of black gram Kota Urd-3.
Problem diagnosed	Low yield due to old unidentified variety of black gram
Farmers' Practices	Local Variety
Details of technologies selected for assessment	T ₁ Use old unidentified black gram variety
	T ₂ Use of High yielding variety of black gram Kota Urd-3. Seed rate @ 15kg/ha.
	T ₃ Indira urd 1
Source of technology	ARS Kota 2013
Plot size	0.40 ha
No. of farmers	05
Total cost	Rs. 12500
Critical input	Seed
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, B:C Ratio

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of High yielding variety of black gram Kota Urd-3.
Year/Season:	2023
Farming situation:	Rainfed, Loamy to sandy loam
Problem diagnosis:	Low yield due to old unidentified variety of black gram
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Use old unidentified black gram variety
T2 –Recommended Practice-	T2- Use of High yielding variety of black gram Kota Urd-3. Seed rate @ 15kg/ha.
T3- Recommended Practice-	T3- Indira urd 1
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ARS Kota 2013
Characteristics of technology:	
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12

Crop / Enterprise	Paddy
Title of on farm trial	Assessment of short duration variety of Rice JR-81
Problem diagnosed	Low yield due to lack of irrigation water during grain forming stage
Farmers' Practices	Local variety
Details of technologies selected for assessment	T ₁ Use Long duration variety
	T ₂ Use of Short duration variety of Rice JR- 81 25 kg/ha.
Source of technology	JNKVV 2017
Plot size	0.40 ha
No. of farmers	05
Total cost	Rs. 10000
Critical input	Seed
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, B:C Ratio

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of short duration variety of Rice JR-81.
Year/Season:	2023
Farming situation:	Irrigated, Loamy to sandy loam
Problem diagnosis:	Low yield due to lack of irrigation water during grain forming stage
Thematic area:	VR
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Use Long duration variety
T2 –Recommended Practice-	T2- Use of Short duration variety of Rice JR- 81 25 kg/ha.
T3- Recommended Practice-	T3-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV 2017
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13

Crop / Enterprise	Gram	
Title of on farm trial	Assessment of High yielding variety of Gram RVG-204	
Problem diagnosed	Low yield due to old unidentified variety	
Farmers' Practices	Desi	
Details of technologies selected for assessment	T ₁	Use of old unidentified variety
	T ₂	Use of High yielding variety of Gram RVG-204.
	T ₃	JG16
Source of technology	RVSKVV Gwalior	
Plot size	0.40 ha	
No. of farmers	05	
Total cost	Rs. 15000	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, B:C Ratio	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of High yielding variety of Gram RVG-204.
Year/Season:	2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old unidentified variety
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Use of old unidentified variety
T2 –Recommended Practice-	T2- Use of High yielding variety of Gram RVG-204.
T3- Recommended Practice-	T3- JG16
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV Gwalior
Characteristics of technology:	High yielding variety
Name of Crop/Enterprises:	Gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-14

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of high yielding variety of Wheat PUSA Tejas(HI-8759)
Problem diagnosed	Low yield due to old variety of Wheat
Farmers' Practices	Lok-1
Details of technologies selected for assessment	T ₁ Use old variety of Wheat
	T ₂ Use of High yielding variety of Wheat PUSA Tejas HI-8759 @ 100 kg/ha
	T ₃ MP4010
Source of technology	IARI Indore
Plot size	0.40 ha
No. of farmers	05
Total cost	Rs. 12500
Critical input	Seed
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, B:C Ratio

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of high yielding variety of Wheat PUSA Tejas(HI-8759)
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety of Wheat.
Thematic area:	VR
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Use old variety of Wheat
T2 –Recommended Practice-	T2- Use of High yielding variety of Wheat PUSA Tejas HI-8759 @ 100 kg/ha
T3- Recommended Practice-	T3- MP4010
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IARI Indore
Characteristics of technology:	High Yielding variety
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-15

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of natural farming input in wheat (triticum aestivum).
Problem diagnosed	Low organic carbon content and soil microbes in soil
Farmers' Practices	NPK 100:60:40
Details of technologies selected for assessment	T ₁ Ghanjeewamrit @5 q/ha, Seed treatment with beejamrit. Three time foliar application of jeewamrit @5% & 10%
	T ₂ T2+Khatti cchach solution@375 ltr/ha
Source of technology	Book-kam lagat prakratik kheti Author- Shri acharya devbrat 2019
Plot size	0.40 ha
No. of farmers	05
Total cost	Rs. 13000
Critical input	Besan, Jaggeri
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	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)	
Title of on-farm trial:	Assessment of natural farming input in wheat (triticum aestivum).
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low organic carbon content and soil microbes in soil
Thematic area:	Natural farming
No of trials:	01
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- NPK 100:60:40
T2 –Recommended Practice-	T2-Ghanjeewamrit @5 q/ha, Seed treatment with beejamrit. Three time foliar application of jeewamrit @5% & 10%
T3- Recommended Practice-	T3- T2+Khatti cchach solution@375 ltr/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Book-kam lagat prakratik kheti Author- Shri acharya devbrat 2019
Characteristics of technology:	Natural farming
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-16

Crop / Enterprise	Sesame
Title of on farm trial	Assessment of Sulphur fertilizer in sesame crop
Problem diagnosed	Low yield due to imbalance use of fertilizer
Farmers' Practices	No use of Recommended dose of fertilizer+Sulphur
Details of technologies selected for assessment	T ₁ RDF 60N:30P:20K kg/ha
	T ₂ STV based N:P:K+30 kg sulphur/ha
Source of technology	IISS
Plot size	0.20 ha
No. of farmers	10
Total cost	Rs. 4813
Critical input	Sulphur Fertilizer
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	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)	
Title of on-farm trial:	Assessment of Sulphur fertilizer in sesame crop
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- No use of Recommended dose of fertilizer+Sulphur
T2 –Recommended Practice-	T2- RDF 60N:30P:20K kg/ha
T3- Recommended Practice-	T3- STV based N:P:K+30 kg sulphur/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IISS
Characteristics of technology:	
Name of Crop/Enterprises:	Sesame
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: **NA**

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: **NA**

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	Buffalo calf	LPM	Demonstration of scheduled deworming for control of calf mortality	Dewormer	2022 (Kharif and Rabi)	160 Farmers/Farm Women	250 (calves)	Mortality (%), Body weight and BCR
2	Goats	LPM	Demonstration of regular deworming of goats for the control of liver fluke	Dewormer	2022	125 Farmers/Farm Women	600 (Goats)	Mortality (%), Body weight, and BCR
3	Marigold	ICM	Demonstration of GA3 foliar spray on growth and flowering of marigold	GA3	Rabi 2023-24	1.0	05	Yield q/ha, B:C Ratio
4	Okra	IWM	Demonstration on Weed management in Okra	Herbicide (Fluchloralin)	Kharif 2023	1.0	05	Yield q/ha, No. of weeds/sqm, B:C Ratio
5	Onion	IWM	Demonstration on Weed management in Kharif Onion	Herbicide (oxyfluorfen 23.5% EC)	Kharif 2023	1.0	05	Yield q/ha, No. of weeds/sqm, B:C Ratio
6	Chilli	ICM	Demonstration of plant growth regulator on chilli	PGRs (NAA and GA3)	Rabi 2023-24	1.0	05	Yield q/ha, B:C Ratio
7	Pearl Millet	Nutrition Sensitive Agriculture	Demonstration of pearl millet production in drought mitigation and nutrition sensitive agriculture	Seed	Kharif , 2022	2.0	05	Panicle/ plant, yield (q/ha), net returns (Rs/ha), B:C ratio
8	Pearl Millet	Nutrition Sensitive Agriculture	Demonstration of pearl millet bio-fortified variety under nutrition sensitive agriculture	Seed	Kharif , 2022	2.0	05	Panicle/ plant, yield (q/ha), net returns (Rs/ha), B:C ratio
9	Pearl Millet	SFM	Demonstration of Nutrient management in Pearl millet	DAP	Kharif 2023	2.0	10	Yield, B:C Ratio, net returns (Rs/ha) & Feedback of farmers
10	Mustard	SFM	Demonstration of Sulphur fertilizer in Mustard crop	Sulphur fertilizer	Rabi 2023-24	2.0	10	Yield, B:C Ratio, net returns (Rs/ha) & Feedback of farmer
11	Wheat	SFM	Demonstration the effect of zinc in wheat crop	Zinc	Rabi 2023-24	2.0	10	Yield, B:C Ratio, net return (Rs/ha) & Feedback of farmer

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	-	-	-
2	Farmers Training	-	-	-
3	Media coverage	12	Jan-Dec 2023	Mass
4	Training for extension functionaries	-	-	-

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Black gram	CRP	Demonstration Improved variety of black gram (IPU 13-1)	Seed, Herbicide, Rhizobium culture	Kharif 2023	20	50	Yield, B:C Ration, No. of pods/plant, No. of grains/pod
2	Chickpea	CRP	Demonstration Improved variety of Chick pea (RVG 204)	Seed, Fungicide, Rhizobium culture	Rabi 2023-24	20	50	Yield, B:C Ration, No. of pods/plant, No. of grains/pod
3	Sesame	CRP	Demonstration Improved variety of sesame	Seed, Fertilizer	Kharif 2023	20	50	Yield, B:C Ratio
4	Mustard	CRP	Demonstration Improved variety of Mustard (RH 725)	Seed, Fertilizer	Rabi 2023-24	20	50	Yield, B:C Ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04		200
2	Farmers Training	04		200
3	Media coverage	02		12
4	Training for extension functionaries	00		00

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									
Seed production	05	01	-	-	-	-	-	-	125
Integrated Crop Management	02	01	-	-	-	-	-	-	50
Total	07	02	-	-	-	-	-	-	175
II Horticulture									
a) Vegetable & fruit Crops									
Protective cultivation (Green Houses, Shade Net etc.)	02	01	-	-	-	-	-	-	50
Total	02	01	-	-	-	-	-	-	50
b) Fruits	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	02	01	-	-	-	-	-	-	50
III Soil Health and Fertility Management									
Production and use of organic inputs	01	01	-	-	-	-	-	-	25
Micro nutrient deficiency in crops	01	01	-	-	-	-	-	-	25
Total	02	02	-	-	-	-	-	-	50
IV Livestock Production and Management									
Dairy Management	04	01	-	-	-	-	-	-	95
Disease Management	01	01	-	-	-	-	-	-	25
Feed management	01	01	-	-	-	-	-	-	20
Goat management	02	01	-	-	-	-	-	-	40
Total	08	04							180
V Home Science/Women empowerment : NA									
VI Agril. Engineering: NA									
VII Plant Protection: NA									

[illegible]

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Resource Conservation Technologies	01	01	-	-	-	-	-	-	25
Integrated Farming	02	01	-	-	-	-	-	-	50
Seed production	06	-	-	-	-	-	-	-	150
Total	09	02	-	-	-	-	-	-	225
II Horticulture									
a) Vegetable Crops									
Nursery raising	01	01	-	-	-	-	-	-	25
b) Fruits									
Propagation techniques of Ornamental Plants	01	01	-	-	-	-	-	-	30
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	01	01	-	-	-	-	-	-	30
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	02	01	-	-	-	-	-	-	50
Soil and Water Conservation	01	01	-	-	-	-	-	-	25
Integrated Nutrient Management	02	01	-	-	-	-	-	-	50
Production and use of organic inputs	01	01	-	-	-	-	-	-	25

[illegible]

[illegible]

Soil Science										
Apr 2023	F/FW	Role of micro nutrient application production and productivity crop	01	-	-	-	-	-	-	25
June 2023	F/FW	Vermi compost technique for income generation	01	-	-	-	-	-	-	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July 2023	F/FW	Minimum support price of kharif crops	01	-	-	-	-	-	-	25
Dec 2023	F/FW	Minimum support of Rabi crops	01	-	-	-	-	-	-	25
Aug 2023	F/FW	Farm management for cost saving	01	-	-	-	-	-	-	25
Jan-Dec 2023	F/FW	Seed production technology of kharif crop	01	-	-	-	-	-	-	25
	F/FW	Seed production technology of rabi crop	01	-	-	-	-	-	-	25
	F/FW	Seed grading and its management	01	-	-	-	-	-	-	25
	F/FW	Seed production technology of mustard crop	01	-	-	-	-	-	-	25
	F/FW	Seed germination testing technology of kharif crops	01	-	-	-	-	-	-	25
	F/FW	Seed germination testing technology of rabi crops	01	-	-	-	-	-	-	25
Horticulture										
Jan-Dec 2023	F/FW	Flower Cultivation	01	-	-	-	-	-	-	30
	F/FW	Spices Cultivation	01	-	-	-	-	-	-	30
	F/FW	Nursery raising	01	-	-	-	-	-	-	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	
Livestock production										
Nov 2023	F/FW	Economics of goat farming	01	-	-	-	-	-	-	25
Jan-Dec 2023	F/FW	Importance of Deworming of dairy calves	01	-	-	-	-	-	-	20
	F/FW	Indo and acto paracite management of animals	01	-	-	-	-	-	-	25
	F/FW	Breeding management in dairy animals	01	-	-	-	-	-	-	25
	F/FW	Proper time of insemination in dairy animals	01	-	-	-	-	-	-	20
	F/FW	Importance of colostrum feeding in newly born calf	01	-	-	-	-	-	-	20
	F/FW	Importance and proper time of vaccination in animals	01	-	-	-	-	-	-	25
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
May 2023	F/FW	Economics of Kharif crops	01	-	-	-	-	-	-	25
June 2023	F/FW	PM Fasal bima yojna	01	-	-	-	-	-	-	25
Jan- Dec 2023	F/FW	SHGs Formation	01	-	-	-	-	-	-	25
	F/FW	Importance of FPO	01	-	-	-	-	-	-	25
	F/FW	Role of Agro Forestry	01	-	-	-	-	-	-	25
	F/FW	Importance of integrated farming system	01	-	-	-	-	-	-	25
Soil Science										
Jan-Dec 2023	F/FW	Importance of natural farming and its benefits	01	-	-	-	-	-	-	25
	F/FW	Importance of method soil sample	01	-	-	-	-	-	-	25
	F/FW	Technique of vermi composting	01	-	-	-	-	-	-	25
	F/FW	Importance of organic farming and organic	01	-	-	-	-	-	-	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	
		production technology								
	F/FW	Importance of use of bio fertilizing in rabi crop	01	-	-	-	-	-	-	25
	F/FW	Importance of use of bio fertilizing in Kharif crop	01	-	-	-	-	-	-	25
	F/FW	Intregated nutrient management in rabi crop	01	-	-	-	-	-	-	25
	F/FW	Technique of soil and water conservation	01	-	-	-	-	-	-	25
	F/FW	Importance of green manuring for sustainable agriculture	01	-	-	-	-	-	-	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										
June-July 2023	RY	Seed production technology in kharif crops	04	-	-	-	-	-	-	25
Horticulture										
Aug-Sep 2023	RY	Nursery management of horticulture crops	04	-	-	-	-	-	-	25
Mar-Jun 2023	RY	Post harvest technology & value addition	04	-	-	-	-	-	-	25
Livestock production	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics) : Nil										
Soil Science										
Oct 2023	RY	Vermi compost technique for income generation	05	-	-	-	-	-	-	25

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	DBW 187	64.0
	Wheat	MP 3288	40.0
	Barley	Prakhar	54.0
OILSEEDS	Mustard	RH 725	50.0
	Mustard	Pitambri	1.50
PULSES	-	-	-
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-	-	-
SPICES	Chilli	Hybrid	5,000
VEGETABLES	Tomato	Hybrid	5,000
	Brinjal	Hybrid	5,000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (specify)	Marigold	Hybrid	5,000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
3	Earthworms	-	-	25
BIOFERTILIZERS				
1	Vermicompost	Isenia fodita	-	5000
2	NADEP	-	-	4000
BIO PESTICIDES				
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
Goat	Kids	Jamunapari	08	-
	Kids	Barbari	06	-
Poultry	Egg	Kadakhnath	1200	-
	Chicks		125	-
Fishries	-	-	-	-
Others (Cow)	Heifer	Sahiwal/Gir	02	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
Jan-Dec 2023	06 Months	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD	KVK Technology/Natural Farming	02

Success stories/Case studies identified for development as a case: 02 (no.)

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA & RRA Technic used
2	Rural Youth	PRA & RRA Technic used
3	In-service personnel	PRA & RRA Technic used
4	Methodology for identifying OFTs/FLDs	PRA & RRA Technic used
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	Barkhadiya	Gohad	50
2	Ghasipura	Mehgaon	25
3	Mangarh	Roun	35

1. No. of farm families selected per village : 50
2. No. of survey/PRA to be conducted: 03

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: **NA**

List of equipments purchased:

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

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
Farmer Welfare & Agriculture Development Department	Training, Farmers meeting/Goshti, Awareness programme, Technical Support, Soil testing, Farmer Interface
ATMA	
Horticulture Department	
Animal Husbandry Department	
Fishries Department	
Agriculture Engineering Department	
NRLM	
IFFCO	
KRIBHCO	
Chambal Fertilizer	
FPOs	
NGOs	
SHGs	
RVSKVV Gwalior	

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Field day training	Training
Kishan Gosthi	Training
Farmer field school	Farmers Training
Farmers interface	Disussion

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
NA	NA

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

Name of Flagship programmes : NICRA

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan-Dec 2023	NRM	30
	Crop Production	60
	Livestock	150
	Institutional	40
	Capacity Building Programme	500
	Extension Activity	Mass
	Publication	Mass

Name of Flagship programmes : Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage	Targeted Activity
Jan-Dec 2023	Awareness programme	300	6
	Demonstraton	10	10
	Trainings	100	2
	Sangosthi	150	2
	Field Day	400	8
	Kisan Mela	300	1
	Develop literature	3000	3
	Jeewamrit	Mass	3000 (Ltr)
	Beejamrit	Mass	2000 (Ltr)
	Ghan Jeewamrit	Mass	4000 (Ltr)
	Neemastra	Mass	1500 (Ltr)
	Bramashtra	Mass	1500 (Ltr)
	Agyastra	Mass	1000 (Ltr)

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Wheat	Rabi	MP 3288, MP3382, RVW 4106, Black wheat, Farmer entry (Shakti vardhak, 8288, Doli)	In Progress	225
Mustard	Rabi	NRCYS-05-0, RH749, RH 725, RVM-1, RVM-2	In Progress	75
Sorghum	Kharif	Farmers (Desi variety)	In Progress	450
Sesame	Kharif	TKG 308, TKG 55, GT-06	In Progress	450

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Goatry	16 Male & Female goats are reared with 04 kids	About 30 sqm area is covered and about 40 sqm area is open for walking	One Male goat is sold and 10 goat ready to sale about Rs. 60,000-70,000/-
Poultry	125 Males and Females are available at unit	About 35 sqm is constructed area about 180 sqm area is open for walking/moving	10-12 eggs are produced everyday in backyard mostly natural rearing is applied
Dairy	Two heifers are rearing at centre	No particular area is constructed preparation and efforts are continue to manage the shed	Just we have purchased two heifer

ANNUAL ACTION PLAN 2023

KVK Mandsaur

Year of sanction: 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
Dr. G.S. Chundawat	Office	Mobile	Email
	KVK, Mandsaur	9406514993	drschundawat1977@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	Vacant	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Dr. G.S. Chundawat	Senior Scientist	Plant Protection		19.10.2012		9406514993	drschundawat1977@gmail.com	
3	Subject Matter Specialist	Dr. S.P. Tripathi	Senior Scientist	Home Science		24.01.2007		8770446139	tripathisun84@gmail.com	
4	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
5	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
8	Programme Assistant	Vacant	-	-	-	-	-	-	-	-
9	Computer Programmer/ Programme Assistant	Vacant	-	-	-	-	-	-	-	-

10	Farm Manager	Vacant	-	-	-	-	-	-	-	
11	Assistant	Shri Parmesh Soni	Accountant / superintendent			14.12.2016		9993887010	psonilhr@gmail.com	
12	Jr. Stenographer / Comp. Operator	Shri Rakesh Aske	Jr. Stenographer / Comp. Operator			14.08.2019		9993999165	rakeshaske999@gmail.com	
13	Driver	Vacant	-	-	-	-	-	-	-	-
14	Driver	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Vacant	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha): 41.62

S. No.	Item	Area (ha)
1	Under Buildings	0.48
2	Under Demonstration Units	0.46
3	Under Crops	18.0
4	Orchard/Agro-forestry	1.0
5	Dairy unit	1.0
	Other (Fellow land)	20.68
Total		41.62

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	473.60	3000000	-	-	-
2	Farmers Hostel	ICAR	2008	393.40	250000	-	-	-

3	Staff Quarters (6)	ICAR	2007	522.20	240000	-	-	-
4	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	ICAR	2019	-	18000	-	-	-
7	Threshing floor	V.V.	2021	10.66x10.66				
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2005	5006916	-	Unserviceable
Motor Cycle 2	2005	45441.65	74050	Poor condition
Bolero (Jeep)	2017	599928.37	103715	Good
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2022	49700	working
Xerox Machine	-	-	-
Generator	-	-	-
Video Camera	-	-	-
Computer, Laser Printer	2014 and 2016,2015	178280, 7048	Poor condition
UPS 600 VA	-	-	
Stabilizer 2 KVA	-	-	
Stabilizer	-	-	
Inverter 600 VA (2)	-	-	
Inverter Battery (2)	-	-	

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

Sl. No.	Tentative Date
1	June-2023
2	September-2023

2. DETAILS OF DISTRICT

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

Agro-Ecological Situation	Characteristics		
AES-I	Block Covered		Medium black to deep black soil, Rainfall..... mm/annually, Guava intercrop with wheat/garlic Plan land, it covers block Malhargarh, Mandsaur, some part of Sitamau
	Geographical Area		52.75%
	Major Farming systems		Crop production + Horticulture + animal husbandry
	Major crops		Kharif - Soybean, Maize Rabi - Wheat, Chickpea, Mustard, Fenugreek & Garlic. Intercrop- Guava + Soybean, Guava + Garlic/Linseed/garlic
AES-II	Block Covered		Undulating land, highest rainfall among the blocks, orange intercrop coriander and linseed, increasing day by day irrigated land due to implementation of Indo-Israel high pressurized irrigation project. It covers block Garoth, Bhanpura, some part of Sitamau (Suwasra)
	Geographical Area		47.25%
	Major Farming systems		Crop production + Horticulture + animal husbandry
	Major crops		Kharif - Soybean, Maize Rabi – Coriander, Wheat, Chickpea, Lentil, Mustard and Linseed Intercrop- Orange + Soybean, Orange + Coriander/Linseed

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

S. No.	Agro-climatic Zone	Characteristics
1.	Malwa Plateau	1. Semi-arid. 2. Rainfall (600-1000mm). 3. Water deficit (800-1200 mm). 4. Water holding capacity is low.
S. No	Agro - ecological situation	Characteristics
2.	Semi-arid	1. Length of crop growing season period (90-150 days) depends upon soil depth. 2. Soil depth is medium to deep 3. Intercropping and double cropping is possible. 4. Soil erosion is a problem due to sloppy lands

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Soybean-Wheat/Garlic (Block- Malhargarh, Mandsaur, some part of Sitamau)

Strength	Weakness	Opportunities	Threats
Fertile, medium go deep black soil	Shortage of irrigation water during month of March to May	Organic and natural farming to be done in the region due to having high fertile land and abundance of dairy animals. Good quality of Guava may be grown	Stagnation of water during rainy season, frost, unavailability of market for organic and naturally grown produce.

AES-2 (Soybean-Coriander/Mustard (Block- Garoth, Bhanpura, some part of Sitamau (Suwasra)

Strength	Weakness	Opportunities	Threats
Climatic conditions are suitable for growing of orange and coriander	Undulating and shallow	The grading and processing industries in coriander may be established, as well as	Frost in coriander crop during December-January may greatly

crops, day by day increasing irrigated land due to implementation of Indo-Israel high pressurized irrigation project, it receives highest rainfall among all the blocks	soil, it is 120-150 km away from district headquarter	grading and packing units may be developed for orange and they may be marketed to Delhi to Mumbai due to the region is well connected with Delhi-Mumbai 8 lines super express way.	affect the crop as well as alternate or no bearing of orange orchard may affect the sustainable production of the fruits.

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	551806
Forest	40600
Waste Land	44240
Other than cultivated area	79080
Cultivable waste and alkaline land	16040
Pastures	-
Bushes	-
Current Fallow	-
Other Fallow	2800
Agricultural Land	356900
Area Sown	556040
Kharif	332040
Rabi	220770
Zaid	3230
Cropping Intensity	145.43

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	43828
2	Well	9500
3	Tube well	183912
4	Ponds	1592
5	Others	6638

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep black Soil		342206
2	Medium black Soil		135000
3	Shallow black Soil		74600
4			

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

Area, Production and Productivity of major crops cultivated in the district (2017-18)

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1.	Chickpea	65-100	11-79	79-05
2.	Mustard	38-200	6-92	50-58
3.	Lentil	9-500	1-72	6-03
4.	Linseed	7-500	1-35	5-24
5.	Onion	4-20	0-76	84-00
6.	Tomato	1-00	0-18	25-00

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	0	20.23	9.72
Feb, 22	0	25.95	8.65
Mar, 22	129	33.99	14.22
Apr, 22	0	34.14	20.79
May, 22	0	39.47	26.23
Jun, 22	24.5	36.78	28.03
July, 2022	327.5	29.89	24.08
Aug., 2022	290.7	28.57	23.16
Sept., 2022	144.7	30.44	22.26
Oct. 2022	70	31.11	16.95
Nov. 2022	0	28.33	11.15
Dec. 2022	0	28.33	10.08

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	237138	210.1 (000) MT.	8.859 kg
Buffalo	258789	315.15 (000) MT.	6.785 kg
Sheep			
<i>Crossbred/ Indigenous</i>	10996	0.5 MT wool	0.250 kg
Goats	224793	1.33 (000) MT	13.30 kg
Pigs <i>Crossbred/ Indigenous</i>	1230	---	---
Rabbits	280		
Poultry			
Hens	165525	129.64 Lakh eggs	78 eggs/ bird/yr
Turkey and others	52	-	-
Category	Area	Production	Productivity
Fish	NIL (ha)	NIL Q/ month	NIL 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	Mandsaur	Malhargrah	Chillod pipliya	Soybean, Chickpea, Blackgram, Wheat	Use of low yielding varieties, heavy incidence of insect pest and disease, Use of imbalance fertilizers, mono culture, un awareness about vermicompost production and bio waste decomposer	Crop production, IPM, IDM, INM and promotion of vermicompost production
2	Mandsaur	Malhargrah	Nagar pipliya	Soybean, Onion, Isabgol Chickpea, Blackgram, Wheat	Use of low yielding varieties, heavy incidence of insect pest and disease, Use of imbalance fertilizers, mono culture, un awareness about bio waste decomposer	Crop production, IPM, IDM, INM and promotion of vermicompost production and inter cropping
3	Mandsaur	Mandsaur	Ranayara	Linseed	Low yield of linseed due to using of old varieties	Crop Improvement
4	Mandsaur	Malhargrah	Sindpant	Soybean, Onion, Mustard, Isabgol Chickpea, Blackgram, Wheat	Use of low yielding varieties, heavy incidence of insect pest and disease, Use of imbalance fertilizers, mono culture, un awareness about bio waste decomposer	Crop production, IPM, IDM, INM and promotion of vermicompost production and inter cropping
5	Mandsaur	Mandsaur	Lalakheda	Chickpea	Low yield of chickpea due to using of old varieties	Crop Improvement
	Mandsaur	Sitamau	Kotda Bahadur	Soybean, Onion, Mustard, Isabgol	Use of low yielding varieties, un judicious use of pesticides, heavy	Crop production, IPM, IDM, INM, organic farming

				Chickpea, Blackgram, Wheat	incidence of insect pest and disease, Use of imbalance fertilizers, mono culture, un awareness about bio waste decomposer	and inter cropping
	Mandsaur	Sitamau	Pipliya Karadiya	Soybean, linseed Onion, Mustard, Isabgol Chickpea, Blackgram, Wheat	Use of low yielding varieties, heavy incidence of insect pest and disease, Use of imbalance fertilizers, mono culture, un awareness about bio waste decomposer	Crop production, IPM, IDM, INM and promotion of vermicompost production and inter cropping
	Mandsaur	Mandsaur	Karankhedi	Soybean, linseed Onion, Mustard, Isabgol Chickpea, Blackgram, Wheat	Use of low yielding varieties, heavy incidence of insect pest and disease, Use of imbalance fertilizers, mono culture, un awareness about bio waste decomposer	Crop production, IPM, IDM, INM and promotion of vermicompost production and inter cropping
	Mandsaur	Mandsaur	Eilchi	Soybean, linseed Onion, Mustard, Isabgol Chickpea, Blackgram, Wheat	Use of low yielding varieties, heavy incidence of insect pest and disease, Use of imbalance fertilizers, mono culture, un awareness about bio waste decomposer	Crop production, IPM, IDM, INM and promotion of vermicompost production and inter cropping

Priority / Thrust areas

S. No.	Particulars
1.	Integrated crop management
2.	Crop management practices
3.	Insect pest management
4.	Implement and farm machinery
5.	Horticulture – Spice Medicinal & vegetables
6.	Women in agriculture
7.	Value addition and processing
8.	Income Generation
9.	Drudgery Reduction
10.	Natural resource management
11.	Rural information system
12.	Marketing and finance
13.	Fuel and fodder scarcity

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
9	90	8 (FLD)+ 4 (CFLD)=12	304

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
52	1035	83	1903

Seed Production (Qtl.)	Planting material (Nos.)
310	-

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal replacement	Soybean	Low yield due to Use of old varieties	Assessment of soybean production technology for higher productivity in soybean - chickpea cropping system	-	Improved production technology and IPM	Package of practices for Soybean crop	Field visit Kisan gosthi	Seed, Bio fertilizer
2	Varietal replacement	Soybean	Low yield due to Use of old varieties	Assessment of materials for management of defoliators' in Soybean	-	IPM in soybean	IPM in Kharif crop	Field visit Kisan gosthi	SINPV, HaNPV, Garlic and Green Chilli
3	Varietal replacement	Ajwain	Low yield due to Use of old varieties	Assessment of new varieties of Ajwain	-	Production technology of Ajwain	-	Field visit Kisan gosthi	Seed
4	Varietal replacement	Nigella	Low yield due to Use of old varieties	Assessment of new varieties of Nigella	-	Production technology of Nigella	-	Field visit Kisan gosthi	Seed
5	IPM	Chickpea	Low yield due to incidence of gram pod borer in chickpea	Assessment of materials for management of gram pod borer in chickpea.	-	IPM in chickpea	-	Field visit Kisan gosthi	HaNPV and Garlic and Green Chilli
6	ITK (IPM)	Soybean	Low yield due to incidence of pod borer in soybean	-	Demonstration of Crushed solution of infected <i>Heliothis</i> larvae to control the small larvae of pod borer in soybean	Microbial pest management in soybean crop	IPM in kharif crops	Field day, Field visit	HaNPV and Net bag for rearing of bod borer
7	IPM	Soybean	Heavy incidence of girdle beetle in soybean	-	Demonstration of Thiacloprid 21.7 % SC @750 ml/ ha at 25 DAS for management of girdle beetle in soybean	Chemical pest management in soybean	-	Field day, Field visit	Pesticides
8	IPM	Maize	25 to	-	Demonstration	IPM in	-	Field day,	Pesticide,

			30% yield losses in Maize due to heavy incidence of Fall army		of IPM module in Maize against Fall army worm	Maize		Field visit	pheromone trap
9	IDM	Coriander	Heavy infection of s stem gall disease in Coriander	-	Demonstration of Propiconazole 25 % E.C. @ 1000 ml/ha. for management of stem gall in Coriander	IDM in coriander	-	Field day, Field visit	Fungicide
10	Nutritional Food Security	Wheat (Bio fortified variety HI 8663) for daliya (Porridge) making	-	-	Demonstration of Use of Bio fortified variety HI 8663 (poshan) of wheat in diet	Preparation of good quality porridge from poshan wheat	-	Field day, Field visit, Kisan goshi	Seed, Daliya (Porridge) making machine, packaging material
11	Nutritional Food Security	Nutritional Kitchen Garden	-	-	Demonstration of Nutritional Kitchen Garden for nutritional security of farm women	Establishment of Nutritional Kitchen Garden in Backyard	-	Field day, Field visit, Kisan goshi	Seasonal vegetable seed, Saplings, fruits plants, vermicompost
12	Income generation	Nursery management	low income of farm women involved in traditional method for Nursery raising	Assessment of improved nursery management for income generation of farm women.	Demonstration of Vermicompost production with the use of <i>worms Eisenia fetida</i> in rich with <i>trichoderma</i> and rock phosphate	Improved nursery management technique, Vermicompost production techniques	-	Field day, Field visit, Kisan goshi	Hybrid Vegetable Seed, Portrays, vermicompost, Fungicides, and insecticides and HDPE Vermibed, and <i>worms Eisenia fetida</i>
13	Women in Agriculture	Marigold flower	Low income of farm women due to no use of improved Variety of Marigold	Assessment of Marigold varieties for income generation of farmwomen	-	Cultivation technology of flower	-	Field day, Field visit, Kisan goshi	Seed, Fungicide, insecticide
14	Income generation	Opium/poppy seeds	Low income of farm women due to no proper grading and packaging of	Assessment of income generation of farm women through grading and small packing of opium poppy seeds (Khas-khas	-	Grading and packaging of opium seed	-	Field day, Field visit, Kisan goshi	Packaging material and weighing balance

			opium seed	Dana)					
15	Value addition	Garlic/Drumstick leaf powder	Low income due to no proper use of garlic pickle	Assessment of income generation of farm women through preparation of good quality Garlic Pickle and Pest	Demonstration of Dehydration drumstick leaf after blanching and make leaf powder as supplement of nutrients	Preparation of Garlic pickle and pest	-	Field day, Field visit, Kisan goshi	Pickle spices, Til (white) Juggery, Lime juice, Pet jar and class II Preservative (SB) @ 100 PPM

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 improvement	1	1	0	0	0	0	0	0	0	2
IPM	0	1	2	0	0	0	0	0	0	3
Income generation	0	0	0	1	1	0	0	0	0	2
Value addition	0	0	0	1	0	0	0	0	0	1
Women in Agriculture	0	0	0	0	0	0	1	0	0	1
TOTAL	1	2	2	2	1	0	1	2	0	9

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

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

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of soybean production technology for higher productivity in soybean - chickpea cropping system	
Problem diagnosed	Low yield due to sowing of old varieties of soybean	
Farmers' Practices	JS 95-60	
Details of technologies selected for assessment	T ₁	Improved variety RVSM-35+ Seed treatment with Penflufen 13.28% + Trifloxystrobin 13.28 % FS @1g/kg seed + Rhizobium @10ml/kg + PSB 10ml/kg + NPKS 20:60:20:20 or on the basis of Soil testing + Imazethapyr 10% SL @1000 ml/ha + Chlorantraniliprole 18.5 % SC @ 150ml/ha
	T ₂	Improved variety Raj Soya-24+ Seed treatment with Penflufen 13.28% + Trifloxystrobin 13.28 % FS @1g/kg seed + Rhizobium @10ml/kg + PSB 10ml/kg + NPKS 20:60:20:20 or on the basis of Soil testing + Imazethapyr 10% SL @1000 ml/ha + Chlorantraniliprole 18.5 % SC @ 150ml/ha
Source of technology	RVSKVV, Gwalior, 2021	
Plot size	0.2 ha. Each	
No. of farmers	10	
Total cost	14,700	
Critical input	Seed	
Performance indicators:	(i) Technical- yield (q/ ha) (ii) Economic- BC ratio (iii) Social – Employment generation- 52 Man days	

OFT-2

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of materials for management of defoliators' in Soybean
Problem diagnosed	Losses about 15-18 % due to heavy infestation of defoliators

	in soybean crop. The area is affected 2.0 lakh ha out of 2.7 lakh.	
Farmers' Practices	Use of Quinalphos 25 % EC @ 1200 ml/ha	
Details of technologies selectedfor assessment	T ₁	Eraction of bird perch @50/ha+pheromone trap @12/ha+Use of SINPV & HaNPV @ 250 LE/ha+Neemastra @5% (At incidence of insect pests)
	T ₂	Eraction of bird perche @50/ha+pheromone trap @12/ha+Use of 3% Agniastra (Preventive spray at 30 DAS and than Need based application at 15 days interval)
Source of technology	NCOF, Ghaziabad 2016	
Plot size	0.2 ha. Each	
No. of farmers	10	
Total cost	4,450	
Critical input	SINPV, HaNPV, Garlic and Green Chilli	
Performance indicators:	(i) Technical- yield (q/ ha) (ii) Economic- BC ratio (iv) Social – Employment generation- 52 Man days	

OFT-3

Crop / Enterprise	Ajwain	
Title of on farm trial	Assessment of new varieties of Ajwain	
Problem diagnosed	Low yield due to use of local variety/ Strains	
Farmers' Practices	Local variety	
Details of technologies selectedfor assessment	T ₁	Ajmer Ajwain-2
	T ₂	Ajmer Ajwain-93
Source of technology	NRCSS, Ajmer 2021	
Plot size	0.2 ha. Each	
No. of farmers	10	
Total cost	3,700	
Critical input	Seed	
Performance indicators:	(i) Technical- yield (q/ ha) (ii) Economic- BC ratio (v) Social – Employment generation- 52 Man days	

OFT-4

Crop / Enterprise	Nigella	
Title of on farm trial	Assessment of new varieties of Nigella	
Problem diagnosed	Low yield due to use of local variety/ Strains	
Farmers' Practices	Local variety	
Details of technologies selectedfor assessment	T ₁	Ajmer Nigell-1
	T ₂	Ajmer Nigella-20
Source of technology	NRCSS, Ajmer 2018	
Plot size	0.2 ha. Each	
No. of farmers	10	
Total cost	5,800	
Critical input	Seed	
Performance indicators:	(i) Technical- yield (q/ ha) (ii) Economic- BC ratio (vi) Social – Employment generation- 52 Man days	

OFT-5

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Agniastra for management of gram pod borer in chickpea.	
Problem diagnosed	Losses about 15-18 % due to heavy infestation of gram pod borer in chickpea crop. The area is affected 0.4 lakh ha out of 0.48 lakh ha.	
Farmers' Practices	Use of quinalphos 25% EC @ 1500 ml/ha	
Details of technologies selectedfor assessment	T ₁	Use of HaNPV @ 250 LE/ha (At incidence of insect pest)
	T ₂	Use of 3% Agniastra (Preventive spray at 30 DAS and than Need based application at 15 days interval)
Source of technology	NCOF, Ghaziabad 2016	
Plot size	0.2 ha. Each	
No. of farmers	10	
Total cost	5,800	
Critical input	HaNPV and Garlic and Green Chilli	

Performance indicators:	(i) Technical- yield (q/ ha) (ii) Economic- BC ratio (vii) Social – Employment generation- 52 Man days

OFT-6

Crop / Enterprise	Nursery Management
Title of on farm trial	Assessment of improved nursery management for income generation of farm women.
Problem diagnosed	low income of farm women involved in traditional method for Nursery raising
Farmers' Practices	Use of Flat Bed Nursery raising
Details of technologies selected for assessment	T ₁ Raising of Hybrid vegetable seedlings on raised bed nursery (10 cm height)
	T ₂ Raising of Hybrid vegetable seedlings in Portray (102 slots)
Source of technology	ICAR, 2016
Plot size	-
No. of farmers	10
Total cost	6,000
Critical input	Hybrid Vegetable Seed, Portrays, vermicompost, Fungicides, and insecticides
Performance indicators:	(i) Technical- Germination %, No. of plant population (ii) Economic- Net return , BC ratio (viii) Social – Employment generation- 60 Men days

OFT-7

Crop / Enterprise	Garlic Pickle and Pest
Title of on farm trial	Assessment of income generation of farm women through preparation of good quality Garlic Pickle and Pest
Problem diagnosed	Low income of farm women due to no proper value addition in Garlic
Farmers' Practices	Poor quality of Garlic Pickle and Pest no use of class II preservative (SB)
Details of technologies selected for assessment	T ₁ Preparation of good Garlic Pickle and Pest with use of pickle spices, Juggery, Khas-khas, Amchur and class II Preservative (SB) @ 100 PPM
	T ₂ Preparation of good quality Garlic Pickle and Pest with addition of pickle spices, Til (white) Juggery, Lime juice and class II Preservative (SB) @ 100 PPM
Source of technology	ICAR, 2016
Plot size	-
No. of farmers	10
Total cost	12,000
Critical input	Pickle spices, Til (white) Juggery, Lime juice, Pet jar and class II Preservative (SB) @ 100 PPM
Performance indicators:	(i) Technical- Production kg/unit, Average cost of input (Rs/unit) (ii) Economic- Net return, BC ratio (ix) Social – Income generation activity throughout the year

OFT-8

Crop / Enterprise	Opium poppy seeds (Khas-khas Dana)
Title of on farm trial	Assessment of income generation of farm women through grading and small packing of opium poppy seeds (Khas-khas Dana)
Problem diagnosed	Low income of farm women due to no proper grading and packaging of opium seed
Farmers' Practices	Sale out of opium seed without grading and packaging
Details of technologies selected for assessment	T ₁ Sale out of opium seed after grading
	T ₂ Grading and packaging in good quality small size
Source of technology	-
Plot size	-
No. of farmers	10
Total cost	5000
Critical input	Packaging material and weighing balance
Performance indicators:	(i) Technical- yield (per unit), quality and taste (ii) Economic- Net return, BC ratio (x) Social – Income generation activity throughout the year

OFT-9

Crop / Enterprise	Marigold
Title of on farm trial	Assessment of Marigold varieties for income generation of farmwomen
▣ Problem diagnosed	Low income of farm women due to no use of improved Variety of Marigold
Farmers' Practices	Use traditional Variety of Marigold

Details of technologies selected for assessment	T ₁	Pusa Narangi Marigold
	T ₂	Pusa Basanti Marigold
Source of technology	ICAR, 2016	
Plot size	-	
No. of farmers	10	
Total cost	10000	
Critical input	Seed, Fungicide, insecticide	
Performance indicators:	(i) Technical- yield (q/ ha) (ii) Economic- Net return, BC ratio (xi) Social – Employment generation- 50 Man days	

OFT -2-

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

Detailed Information about OFT:

1.

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of soybean production technology for higher productivity in soybean - chickpea cropping system
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old var. JS 9560
Thematic area:	Crop Production
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JS 95-60
T2 –Recommended Practice-	Improved variety RVSM-35+ Seed treatment with Penflufen 13.28% + Trifloxystrobin 13.28 % FS @1g/kg seed + Rhizobium @10ml/kg + PSB 10ml/kg + NPKS 20:60:20:20 or on the basis of Soil testing + Imazethapyr 10% SL @1000 ml/ha + Chlorantraniliprole 18.5 % SC @ 150ml/ha
T3- Recommended Practice-	Improved variety Raj Soya-24+ Seed treatment with Penflufen 13.28% + Trifloxystrobin 13.28 % FS @1g/kg seed + Rhizobium @10ml/kg + PSB 10ml/kg + NPKS 20:60:20:20 or on the basis of Soi testing + Imazethapyr 10% SL @1000 ml/ha + Chlorantraniliprole 18.5 % SC @ 150ml/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

2.

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of materials for management of defoliators' in Soybean
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Losses about 15-18 % due to heavy infestation of defoliators in soybean crop. The area is affected 2.0 lakh ha out of 2.7 lakh.
Thematic area:	IPM
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 Quinalphos 25 % EC @ 1200 ml/ha
T2 –Recommended Practice-	Eraction of bird perch @50/ha+pheromone trap @12/ha+Use of SINPV & HaNPV @ 250 LE/ha+Neemastra @5% (At incidence of insect pests)
T3- Recommended Practice-	Eraction of bird perche @50/ha+pheromone trap @12/ha+Use of 3% Agniastra (Preventive spray at 30 DAS and than Need based application at 15 days interval)

Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCOF, Ghaziabad 2016
Characteristics of technology:	Economic & Ecofriendly due to material available locally
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

3.

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of new varieties of Ajwain
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety/ Strains
Thematic area:	Horticulture (Spices)
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-	Ajmer Ajwain-2
T3- Recommended Practice-	Ajmer Ajwain-93
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRCSS, Ajmer 2021
Characteristics of technology:	Economic & Ecofriendly due to material available locally
Name of Crop/Enterprises:	Ajwain
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

4.

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of new varieties of Nigella
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety/ Strains
Thematic area:	Horticulture (Spices)
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-	Ajmer Nigell-1
T3- Recommended Practice-	Ajmer Nigella-20
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRCSS, Ajmer 2018
Characteristics of technology:	Economic & Ecofriendly due to material available locally

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

5.

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of materials for management of gram pod borer in chickpea.
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Losses about 15-18 % due to heavy infestation of gram pod borer in chickpea crop. The area is affected 0.4 lakh ha out of 0.48 lakh ha.
Thematic area:	IPM
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 quinalphos 25% EC @ 1500 ml/ha
T2 –Recommended Practice-	Eraction of bird perch @50/ha+installation of pheromone trap@12/ha+Use of HaNPV @ 250 LE/ha (At incidence of insect pest)
T3- Recommended Practice-	Eraction of bird perche @50/ha+installation of pheromone trap@12/haUse of 3% Agniastra (Preventive spray at 30 DAS and than Need based application at 15 days interval)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCOF, Ghaziabad, 2016
Characteristics of technology:	Economic & Ecofriendly due to material available locally
Name of Crop/Enterprises:	Chickpea
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:

1.

Title of on-farm trial:	Assessment of improved nursery management for income generation of farm women.
Year/Season:	2023/Kharif
Problem diagnosis:	low income of farm women involved in traditional method for Nursery raising
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income Generation
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of Flat Bed Nursery raising
T2 –Recommended Practice-	Raising of Hybrid vegetable seedlings in Portray (102 slots)
Source of technology:	ICAR, 2016
Characteristics of technology:	-
Name of Crop/Enterprises:	Nursery Management
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

2.

Title of on-farm trial:	Assessment of income generation of farm women through preparation of good quality Garlic Pickle and Pest
Year/Season:	2023/Kharif
Problem diagnosis:	Low income of farm women due to no proper value addition in Garlic
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-	Poor quality of Garlic Pickle and Pest no use of class II preservative (SB)
T2 –Recommended Practice-	Preparation of good quality Garlic Pickle and Pest with addition of pickle spices, Til (white) Juggery, Lime juice and class II Preservative (SB) @ 100 PPM
Source of technology:	ICAR, 2016
Characteristics of technology:	-
Name of Crop/Enterprises:	Garlic Pickle and Pest
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

3.

Title of on-farm trial:	Assessment of income generation of farm women through grading and small packing of opium poppy seeds (Khas-khas Dana)
Year/Season:	2023-24/ <i>Rabi</i>
Problem diagnosis:	Low income of farm women due to no proper grading and packaging of opium seed
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Sale out of opium seed without grading and packaging
T2 –Recommended Practice-	Grading and packaging in good quality small size
Source of technology:	-
Characteristics of technology:	Good quality in milky color and taste
Name of Crop/Enterprises:	Opium poppy seed
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

4.

Title of on-farm trial:	Assessment of Marigold varieties for income generation of farmwomen
Year/Season:	2023-24/ <i>Rabi</i>
Problem diagnosis:	Low income of farm women due to no use of improved Variety of Marigold
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use traditional Variety of Marigold
T2 –Recommended Practice-	Pusa Narangi Marigold and Pusa Basanti Marigold
Source of technology:	
Characteristics of technology:	High yielding good quality flower ecofriendly & High return value
Name of Crop/Enterprises:	Marigold
Farming situation:	Irrigated
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized

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	ITK	Crushed solution of infected Heliothis larvae to control the small larvae of pod borer in soybean	HaNPV	Kharif-2023	2.6	13	No. of larvae/m ² , % infestation of pods
2	Soybean	IPM	Thiacloprid 21.7 % SC @750 ml/ ha at 25 DAS for management of girdle beetle in soybean	Insecticide	Kharif-2023	2.6	13	% infestation of plants,
3	Maize	IPM	Seed treatment with cyantraniliprole 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 Enamectin benzoate 5% S.G. @ 200 g/ha in IPM module against fall armyworm in Maize	Insecticide and Pheromone trap	Kharif-2023	2.6	13	% fruit infestation
4	Coriander	IDM	Demonstration of Propiconazole 25 % E.C. @ 1000 ml/ha. (Apply at incidence and than 15 Days intervals) for management of stem gall in Coriander	Fungicides	Rabi-2023-24	2.6	13	% Infestation of plants, % Infestation of Berry

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	September and February	80
2	Farmers Training	8	June-July and November-December	260
3	Media coverage	2	August and December	-
4	Training for extension functionaries	2	June and December	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
				NIL				

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demon.	Local check
Nutritional Kitchen Garden	Seasonal vegetables and Fruits	13	13	Seasonal vegetable seed, Saplings, fruits plants, vermicompost	Yield of fresh vegetables and fruits, BMI Measurement	Yield kg/unit, Energy (k cal), Protein (gm), Iron (mg), Calcium (mg), Increase in Weight (Kg), Increase in Height (cm), BMI	Yield kg/unit
Vermicompost Production	Income generation	13	13	HDPE Vermibed, and worms <i>Eisenia fetida</i>	Production per unit (Q/pit), Worms yield (kg/unit) and B:C Ratio	Production per unit (Q/pit), Worms yield kg/unit Average cost of input (Rs/unit), Average Gross Return (Rs/unit), Net Return (Rs/unit) and B:C Ratio	Yield q/pit
Wheat (Bio fortified variety HI 8663) for daliya (Porridge) making	Nutritional Food Security	13	13	Seed, Daliya (Porridge) making machine, packaging material	Yield of Daliya and BMI Measurement	Energy (kcal), Protein (gm), Iron (mg), Calcium (mg), Increase in Weight (Kg), Increase in Height (cm), BMI	Yield kg/unit
Drumstick leaf powder	Value addition	13	13	Pickle spices, Til (white) Juggery, Lime juice, Pet jar and class II Preservative (SB) @ 100 PPM	Yield of Leaf powder, Moisture content, BMI Measurement	Energy (k cal), Protein (gm), Iron (mg), Calcium (mg), Increase in Weight (Kg), Increase in Height (cm), BMI, Net return and B:C Ratio	Yield (kg/unit)

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
b) Fruits									
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
f) Spices									
Production and Management technology	2	2	-	-	-	-	-	-	40
Total	2	2	-	-	-	-	-	-	40
g) Medicinal and Aromatic Plants									
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	2	2	0	0	0	0	0	0	40
III Soil Health and Fertility Management									
Soil fertility management	-	-	-	-	-	-	-	-	
Soil and Water Conservation	-	-	-	-	-	-	-	-	
Integrated Nutrient Management	1	1	-	-	-	-	-	-	20
Production and use of organic inputs	1	1	-	-	-	-	-	-	20
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	1	1	-	-	-	-	-	-	20
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	3	3	-	-	-	-	-	-	60
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	1	1	-	-	-	-	-	-	20
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	1	1	-	-	-	-	-	-	20
V Home Science/Women empowerment									
Household food	1	1	0	18	18	0	2	2	20

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		Total
mainstreaming through SHGs										
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-
TOTAL	2	2	-	-	-	-	-	-	-	40

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	2	2							40
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	2	2	-	-	-	-	-	-	40
II Horticulture									
a) Vegetable Crops									
Nursery raising	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	2	2	0	0	0	0	0	0	40
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-
Soil fertility management	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	1	1	-	-	-	-	-	-	20

i) Farmers & Farm women

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										
	Farmers and Farm women	Crop production technologies	5	-	-	-	-	-	-	100
Horticulture										
	Farmers and Farm women	Species production technologies	2	-	-	-	-	-	-	40
Livestock production										
	Farmers and Farm women	Fodder production technologies	1	-	-	-	-	-	-	20
Home Science	ICDS	Low-cost diet preparation	2	-	-	-	-	-	-	25
Plant Protection										
	Farmers and Farm women	IPM and IDM	8	-	-	-	-	-	-	160
	Extension personnels	IPM and IDM	2	-	-	-	-	-	-	40
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
	Farmers and Farm women	INM	3	-	-	-	-	-	-	60

Month/

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										
	Farmers and Farm women	Crop production technologies	2	-	-	-	-	-	-	40
Horticulture										
	Farmers and Farm women	Species production technologies	2	-	-	-	-	-	-	40
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science	ICDS	Value addition in fruits and vegetables	1	-	-	-	-	-	-	25
Plant Protection										
	Farmers and Farm women	IPM and IDM	7	-	-	-	-	-	-	140
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										
	Farmers and Farm women	INM	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										
-	-	-	-	-	-	-	-	-	-	-
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science	School dropout girls	Stitching and embroidery	15	-	-	-	-	-	-	25
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
	Rural youth	Production of vermicompost and organic inputs	3	-	-	-	-	-	-	60

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Note- As per allotment of VV and other agencies

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	4	-	-	-	-	-	-	-	-	-
Advisory Services	-	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	20	270	25	295	5	0	5	275	25	300
Farmers visit to KVK	-	.	-	-	-	-	-	-	-	200
Diagnostic visits	4	46	0	46	4	0	4	50	0	50
Exposure visits	2	38	0	38	2	0	2	40	0	40
Ex-trainees Sammelan	2	28	10	38	2	0	2	30	10	40
Soil health Camp	1	24	0	24	1	0	1	25	0	25
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)	8	132	15	147	2	6	8	134	21	168
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	83	1354	282	1636	44	10	54	1398	292	1903

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
OILSEEDS	Soybean	As per allotment of VV	120
	-	-	-
PULSES	Chickpea	As per allotment of VV	150
VEGETABLES	-	-	-
	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	Wheat	As per allotment of VV	40

PLANTING MATERIALS- NIL

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

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	<i>Rhizobium</i>	-	-	-
BIOFERTILIZERS				
1	Vermicompost	<i>Eisenia fetida</i> worms	500	50000
2	NADEP	-	-	-
BIO PESTICIDES				
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Gir and other	8	Milk 3600 lit
SHEEP AND GOAT	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

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

Date of start	Periodicity	Number of copies to be published
-	Jan to March	500
-	April to June	500
-	July to Sep	500
-	Aug to Dec	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Video clip	Natural farming	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	-
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	Elchi,, manpuria	Mandsaur	20
2	Ranayara, Kotda Bahadur	Sitamua	39
3	Chillod Pipliya, Nagar Pipliya	Malhargarh	36
4	Khajuri pant, tatrai	Garoth	120
5	Nayakheda	Bhanpura	135

1. No. of farm families selected per village: 10 to 20
2. No. of survey/PRA to be conducted: 1

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2012

List of equipments purchased: 2012

Sl. No.	Name of the Equipment	Qty.	Condition
1.	Electronic Top Pan Balance	1	Unserviceable
2.	Rotary flask Shaker	1	serviceable
3.	Topan Analytical Electronic balance capacity 220 gm	1	serviceable
4.	Craf oven Universal , BEA-3	1	serviceable
5.	UV spectrophotometer	1	serviceable
6.	Conductivity Meter E.C.	1	serviceable
7.	Flame Photometer	1	serviceable
8.	Double sided reagent shield with accessories (Lab Accessories)	1	serviceable
9.	pH meter (u pH System 361)	1	serviceable
10.	Storage unit with cam lock	1	serviceable
11.	Himam Dasta	1	serviceable
12.	Mridaparikshak soil kit (Sr.MU2, 03584)	1	Serviceable, Non availability of reagents
13.	Computer system Dell, H.P. Laser Printer (PSC), UPS 600 VA	1	Unserviceable
14.	Mridaparikshak kit (Sr.MU2, 03476)	1	Serviceable, Non availability of reagents
15.	Conductivity Meter 306	1	serviceable
16.	Mridaparikshak kit (Sr. MU2 01524), (Sr.MU2, 01209)	01 Gifted by DDA Mandsaur	Serviceable, Non availability of reagents

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	400	400	4	Rs. 40000
Water Samples	0	0	0	0
Total	400	400	4	Rs. 40000

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	In-service training, Field visit, Diagnostic visit, Kisan mela and ATMA trainings
Department of Horticulture	Field visit, Training, Physical verification of structures, Diagnostic visit
Department of Animal husbandry	Training -vermicompost and fodder production
Department of Child development	Trainings
Cooperative society	Fiscal of Finance of crops

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district: Yes

Name of Programme	Nature of linkage
NFSM demonstration	Training and field visits
Krishi Mela	Trainings

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
NIL	NIL	NIL

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 800 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean (11)	Kharif-2023	JS 20-29	24.0 q/ha., 94 days, Multiple resistant, YR-2014	3X4
		JS 20-34	22.0 q/ha., 90 days, YR-2014	3X4
		RVSM-35	25-30.0 q/ha., 95 days, Moderate resistant to YMV	3X4
		JS 20-69	27.0 q/ha., 105 days, Multiple resistant, YR- 2016	3X4
		Raj Soya- 18	19.0 q/ha., 92 days, Resistant to YMV, YR- 2017	3X4
		Raj Soya-24	27.0 q/ha., 105 days, Multiple resistant, YR- 2017	3X4
		NRC 127	18.0 q/ha., 104 days, Yellow mosaic resistant, YR-2018	3X4
		NRC 130	17.0 q/ha., 92 days, YR- 2021	3X4
		NRC 138	25.0 q/ha., Resistant to YMV and Girdle beetle, YR-2021	3X4
		NRC 152	25 q/ha., 105 days	3X4
		Himso 1689	20.0 q/ha., 101 days	3X4
Urd (2)		Pratap Urd-1	11.0 q/ha., 75 days, Tolerant to moisture stress conditions, YR- 2016	3X4
Mungbean (2)		MH 421	10.0 q/ha., 65 days, Resistant to MYMV, YR- 2014	3X4
		IPM 410-3 (Shikha)	11.0 q/ha., 70 days, Highly resistant to MYMV and Powdery mildew, YR- 2016	3X4
Pigeonpea (Tur/Arhar		TJT-501	18-20 q/ha., 145-155 days, Semi spreading, Resistant to fusarium wilt and tolerant to phytophthora blight, YR-2009	3X4
Groundnut		JGN-23	16-18 q/ha., 140 days, Tolerant to Tikka disease, YR-2009	3X4
Safflower		RVS-113	16-18 q/ha., 125-130 days, Ealy maturity, Spineless, oil content 29-30%, Resistant to lodging and shattering, YR-2011	3X4
Wheat (8)	Rabi 2023-24	HI – 8759	56-60.0 q/ha., 115-120 days, Resistant to blast, rust, smut, Karnal bunt, YR- 2016	3X4
		HI - 1544	55-60.0 q/ha., 115-120 days, Timely sowing, irrigated conditions, YR- 2008	3X4
		HI - 8663	80-90.0 q/ha., 120-125 days, Timely sowing, highly fertile soil, YR- 2008	3X4
		HI - 8713	53.0 q/ha., 120-125 days, Timely sowing, irrigated conditions, YR- 2013	3X4
		HI – 8737	50-55.0 q/ha., 115-120 days, Rust and Flag smut resistant, YR- 2014	3X4
		DBW-47	37-40.0 q/ha., 118-121 days, Timely sowing, irrigated conditions	3X4
		MP- 3382	60.0 q/ha., 119-120 days, Heat tolerant, multiple resistant to disease YR- 2015	3X4
		HI -1605	55.0 q/ha., Early maturity 120 days, Resistant to rust, smut, leaf blight and Karnal bunt, irrigated condition, YR- 2016	3X4
		HI – 8759	56-60.0 q/ha., 115-120 days, Resistant to blast, rust, smut, Karnal bunt, YR- 2016	3X4
Mustard (7)		RVM-1	20.0 q/ha., 108 days, Early sowing, Rainfed and irrigated condition, Oil content 40-45%, YR- 2017	3X4
		RVM-2	16-19.0 q/ha., 120-140 days, Late sowing, Rainfed condition, Oil content 37-41%, YN-2013	3X4

	PM26	14-18.0 q/ha., 115-137 days, late sowing, irrigated condition, YR- 2011	3X4
	PM27	14-16.0 q/ha., 108-135 days, Early sowing, irrigated condition, YR- 2011	3X4
	PM-28	19-20.0 q/ha., 97-131 days, Early sowing, irrigated condition, YR- 2012	3X4
	PM-30	15-22.0 q/ha., 119-160 days, Timely sowing, irrigated condition, YR- 2013	3X4
	Giriraj DRMRIJ -31	22-27.0 q/ha., 137-153 days, Bold seeded, irrigated condition, YR- 2013	3X4
Chickpea (6)	RVG-202	18-20.0 q/ha., 105 days, Suitable for late sowing condition, YR- 2012	3X4
	RVG-203	19-20.0 q/ha., 100 days, Moderate resistant to wilt & dry root rot, YR- 2012	3X4
	RVG-204	19-20.0 q/ha., 112-115 days, Timely sowing, Tolerant to wilt and able to machine harvesting, YR- 2021	3X4
	RVG-205	17-18.0 q/ha., Timely sowing irrigated condition, Green seeded, Tolerant to wilt	3X4
	RVGK-101	15-18.0 q/ha., 109 days, Timely sowing irrigated condition, whitish bold seeded, 40.6 g/100 seed	3X4
	RVSGKG-102	12-15.0 q/ha., 104 days, Timely sowing irrigated condition, whitish bold seeded	3X4
Coriander (4)	ACr-1	10.12.0 q/ha., Late maturity, Resistant to stem gall, irrigated condition, Essential oil 0.4%	3X4
	ACr-2	13.0 q/ha., Late maturity, Highly resistant to stem gall, Essential oil 0.54% (linalool 71.7%), irrigated condition	3X4
	RCr - 436	11-12.0 q/ha., Early maturity 90-100 days, Bold seeded, Susceptible to stem gall and wilt, irrigated condition	3X4
Fenugreek (5)	AGCr-1	Off season (Summer) coriander variety for green leaves	3X4
	AFg -1	Bold seeds, 137 days maturity, Seed yield 20-22 q/ha, Suitable all over the country under irrigation.	3X4
	AFg -2	Small seeds possessing high medicinal value, Dual-purpose, 138 maturity, Seed yield 15-18 q/ha, irrigated condition.	3X4
	AFg -3	Moderately resistant to powdery mildew and root rot diseases, Seed contains higher diosgenin (1.79 %), amino acid content 0.97 %, Seed yield 15-18 q/ha	3X4
	AFg -4	Moderately resistant to powdery mildew and root rot, Average yield 19.25 q/ha., Seed contains amino acid 0.94 % and 1.74 % diosgenin, Seeds are rich in crude fibre 21.7 %.	3X4
	AFg -5	Average seed yield is 17.21 q/ha, medium maturing, suitable for green leaf production under shade net condition in summer	3X4
Kasuri methi	Ajmer Kasuri methi	Green leaf Yield 70-80.0 q/ha, Late maturity 150-160 days, Sickle shape pod, 4-5 cutting	3X4
Celery	Ajmer Celery-1	Suitable for semi-arid conditions, Resistant to stem gall, Essential oil content of 2.4% form seeds, Seed yield 8-10q/ha.	3X4
Dill (2)	ADL-1	Suitable for export, contain about 3.5% essential oil. 142 days maturity, Yield 14.7 q/ha, irrigated conditions.	3X4
	ADL-2	135 days maturity, Seeds are bold, Seed yield 14.6q.ha, irrigated and 5.8 q/ha under rainfed	3X4

		conditions, seed contain about 3.2 % essential oil, Suitable for irrigated and rainfed conditions.	
Fennel (2)	AF-1	Late maturity, Tolerance to Ramularia and Alternaria blight, Volatile oil content 1.6%, Seed yield 20-22q/ha., irrigated condition.	3X4
	AF-2	Seed yield 17.9 q/ha., Moderately resistant to Ramularia blight diseases, seed contains 1.9% essential oil, Essential oil contains 57.5% Anethol + Estyragol, irrigated condition	3X4
	AA-1	Suitable for cultivation both under irrigated and rainfed conditions, Late maturity (165 days), Essential oil content in seeds in 3.4%, Seed yield 11-14 q/ha.	3X4
	AA-2	Suitable for cultivation under rainfed conditions, Matures in about 147 days, The seeds essential oil content is 3.0%, Seed yield 10-12 q/ha.	3X4
	AA-93	It flowers only in 47 days and matures in 123 days, 14.15 q/ha seed yield, Lodging resistant in case of heavy dew	3X4
Linseed (6)	JLS-66	16-18.0 q/ha., 114-120 days, moderately resistant to powdery mildew and bud fly, moderately susceptible to Alternaria blight, YR-2018	3X4
	JLS 73	14-16.0 q/ha., oil content 40%, moderately resistant to powdery mildew, rust, Alternaria blight and bud fly, YR-2011	3X4
	JLS 79	17-19.0 q/ha., oil content 38.38%, moderately resistant to powdery mildew, rust and Alternaria blight, YR-2016	3X4
	JLS-95	12-14.0 q/ha. Rainfed condition and 16-18.0 q/ha irrigated condition, oil content 40%, white flower, moderately resistant to powdery mildew, rust, Alternaria blight and bud fly, YR-2018	3X4
	JLS-122	10-12.0 q/ha., short duration 114 days, oil content 41.5%, moderately resistant to powdery mildew, rust, Alternaria blight and moderately susceptible to wilt YR-2022	3X4
	Pratap Alsi-2	19.57 q/ha., irrigated condition, oil content 41.81%, Early maturity, moderately resistant to powdery mildew, Alternaria blight and wilt YR-2015	3X4
Ashwaganda (3)	JA - 20	Root yield 5-6.0 q/ha, 160-190 days	3X4
	JA - 134	Root yield 6-8.0 q/ha., 175 days, Alkaloids content 0.6% , Annual erect, Resistant to Alternaria leaf blight, Root smooth and high starch content ,YR-2000	3X4
	RVA - 100	Root yield 6-7.0 q/ha., 160 days, Annual erect, biparous branching, Green leaf , root color- whitish, brown, starchy, YR-2010	3X4
Isabgol	JI - 4	18-19.0 q/ha., 120-125 days, leaf narrow dense dark green, seed boat shaped, YR-1997	3X4
Asalio (3)	RVA- 1001	17-18.0 q/ha., 108-113 days, Moderate to Alternaria leaf blight, oil content 20.20%, linolenic acid omega-3 (47348%), good for moisture stress condition, YR-2020	3X4
	RVA – 1007	14.0 q/ha., 120-125 days, Narrow leaf, oil content 20.57%, linolenic acid omega-3 49.45%, YR-2018	3X4
	RVA-1016	18-20.0 q/ha., 117-122 days, Moderate to Alternaria leaf blight, oil content high 20.20%, linolenic acid high omega-3 (48.88%), good for moisture stress	3X4

		condition, YR-2020	
Tulsi (2)	RVB-13	10.12.0 q/ha., 119-123 days, oil content high 0.77%, light pink flower, YR-2022	3X4
	RVB-16	8-9.0 q/ha., 125-130 days, oil content high 0.7%, white flower, YR-2022	3X4
Safed Musli (2)	JSM-405	fresh fasciculated root yield 22-25.0 q/ha., Yellow anther, narrow green leaves, dark black seed, medium maturity 100 days, YR-2005	3X4
	RVSM-414	Fresh root yield 25-28.0 q/ha., Greenish yellow anther, narrow, dark black seed, medium maturity 90 days, YR-2010	3X4
Nigella (2)	AN-1	Resistant to root rot, Suitable for cultivation under semi-arid region under irrigation, 135 days seed maturity, Seed contain about 0.7% essential oil, Seed yield 8-12 q/ha.	3X4
	AN-20	Average yield 10.25 q/ha, Seed contain about 0.7% essential oil	3X4
Onion (3)	L-920	-	3X4
	Agri found light red	-	3X4
	NHRDF Red-4	-	3X4
Garlic	G-282	-	3X4

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Nutritional Kitchen Garden	Seasonal vegetables and fruits	250	500 kg

ANNUAL ACTION PLAN 2023

KVK : Morena (M.P.)

Year of sanction: 2001

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.P.S. Tomar	07532-292810	7974212898	kvk.morena@rvskvv.net

1.2 Staff Position on (31th Dec.2022) :

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Senior Scientist & Head	Dr. R.P.S. Tomar	Sr. Scientist & Head	Agronomy	(131400-217100) 143600	27.01.2007	26.07.2021	9826287449		
2	Scientist	Dr. S.V.S. Chauhan	Sr. Scientist	Agri. Extension	(131400-217100) 143600	29.01.2007	18.06.2007	9027324348		
3	Scientist	Dr. Reeta Mishra	Sr. Scientist	Home Science	(131400-217100) 143600	31.01.2007	31.01.2007	9425795028		
4	Scientist	Dr. A. S. Yadav	Scientist	Entomology	(79800-211500) 104100	25.01.2007		9424019231		
5	Scientist	Dr. P.K.S. Gurjar	Scientist	Horticulture	(79800-211500) 104100	29.01.2007		9926269423		
6	Scientist	Dr. B.S. Kasana	Scientist	Agronomy	(79800-211500) 104100	12.03.2007	16.03.2021	9425760286		
7	Scientist	Dr. P.P. Singh	Scientist	LPM	(79800-211500) 104100	31.01.2007	06.03.2020	9425334225		
8	Programme Assistant	Smt. Reena Sharma	T.O.	Agronomy	(44900-142400) 60400	14.2.2011	03.10.2012	7879992592		
9	Computer Programmer/ Programme Assistant	Smt. Archana Khare	T.O.	Home Science	(44900-142400) 60400	14.2.2011	19.04.2012	8109091033		
10	Farm Manager	Dr. Swati Singh Tomar	T.O.	Entomology	(42700-135100) 51000	24.08.2016	17.03.2021	9425738999		
11	Assistant	Sh. Kalpna Kashyap	O.S.	B.Sc.	(36200-114800) 45900	27.07.2003	18.03.2021	9009932201		
12	Jr. Stenographer / Comp. Operator	Ku, Naincy Mittal	Jr. Stenographer / Comp. Operator	Commerce	(28700-91300) 31400	16.08.2019	16.08.2019	9584977871		
13	Driver	Shri Dharmendra Singh	Driver	High School	(25300-80500) 32100	10.7.2008		9425334721		
14	Driver	Shri Indrajeet Gadwal	Driver	High School	(25300-80500) 32100	14.07.2008	16.03.2021	9098204325		
15	Supporting staff	Shri Netram Dix	Supporting staff	-	(18000-56900) 29670	22.5.1990				
16	Supporting staff	Vacant	Supporting staff	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha): 1.5

S. No.	Item	Area (ha)
1	Under Buildings	0.25
2	Under Demonstration Units	1.0
3	Under Crops	-
4	Orchard/Agro-forestry	0.25
5	Others (specify)	-
Total		1.5

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	2003	-	-	-	-	-
2	Farmers Hostel	ICAR	2003	-	-	-	-	-
3	Staff Quarters (6)	ICAR	2005	-	-	-	-	-
4	Demonstration Units (2)	ICAR	2010-11	-	-	-	-	-
5	Fencing	ICAR		-	-	-	-	-
6	Rain Water harvesting system	ICAR	2005	-	-	-	-	-
7	Threshing floor	ICAR	-	-	-	-	-	-
8	Farm godown	ICAR	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	2021	700000.00	5956	Working
Bolero(Jeep)	2017	70000.00	74340	Working
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LED 65 Inch	2022	100000.00	Working
Projector	2022	80000.00	Working

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

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

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES	The climate of the zone is characterized as semi arid with extremely hot summer during May-June. Rainfall is 701 mm mostly concentrated in the months of July and August. Normally, onset of SW- monsoon takes place in first week of July withdrawal in first fortnight of September. Nearly 90% rainfall is received from south-west monsoon during July-September and there is some winter rainfall. The rainfall is erratic in distribution. The temperature varies from a minimum of 00C in winter to a maximum and minimum temperatures in summer are 390C and 210C and in winter 26.30C and 8.20C, respectively. Mean summer temperature is 30.10 C and mean winter 17.20C. Dust storms are common in May and June

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

S. No.	Agro-climatic Zone	Characteristics
1	Gird Agro-climatic Zone	Medium and alluvial soil, annual rain fall 650 to 750 mm, Maximum temperature 45-48 ⁰ C and Minimum temperature 2-4 ⁰ C

SWOT Analysis of each Agro-Ecological Situations of district AES

Strength	Weakness	Opportunities	Threats
☐ Deep soil varies from 30 cm to >120cm and soil Ph range from 7.52 to 8.5. District has basically agricultural oriented economy	☐ 1.9 Lakh hectare is under medium to deep ravines	☐ Crop diversifications can be adopted along with livestock	☐ Soil erosion due to medium and deep ravines to become a serious problem

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	501.686
Forest	43.608
Waste Land	41.029
Other than cultivated area	16.26
Cultivable waste and alkaline land	89.26
Pastures	18.98
Bushes	-
Current Fallow	67.35
Other Fallow	-
Agricultural Land	272.188
Area Sown	493.876
Kharif	222.95
Rabi	269.02
Zaid	1.89
Cropping Intensity	182%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	109300
2	Well	31600
3	Tube well	126897
4	Ponds	-
5	Others	1200

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Alluvial	Semi loam, deep, sandy	501.68

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)
Rabi Crop				
1	Wheat	99000	392.06	2.09
2	Barley	2018	6.61	0.07
3	Chickpea	10700	15.28	1.54
4	Pea	600	0.81	1.87
5	Lentil	2700	0.24	0.49
6	Mustard	170000	355.39	1.19
Kharif Crop				
1	Paddy	4000	13.46	60.55
2	Sorghum	1000	1.76	17.31
3	Pearl millet	171000	611.61	25.06
4	Pigeon pea	10000	5.61	12.17
5	Green Gram	2000	1.3	11.07
6	Black Gram	4500	3.95	13.35
7	Cluster bean	12000	10.75	17.14
8	Sesame	14000	6.35	6.68

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	29.7	23.0	4.5
Feb, 22	0.0	30.0	3.0
Mar, 22	0.0	41.0	5.0
Apr, 22	0.0	44.0	21.5
May, 22	5.3	46.0	24.0
Jun, 22	118.0	45.0	26.0
July, 2022	271.7	39.0	23.0
Aug., 2022	303.5	34.0	22.0
Sept., 2022	116.7	37.0	22.5
Oct. 2022	173.9	33.0	14.0
Nov. 2022	0.0	32.5	9.5
Dec. 2022	0.0	29.0	4.0

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	141916	-	-
Buffalo	631143	-	-
Sheep			
<i>Crossbred/ Indigenous</i>	19114	-	-
Goats	161456	-	-
Pigs <i>Crossbred/ Indigenous</i>	-	-	-
Rabbits	-	-	-
Poultry			
Hens	-	-	-
Turkey and others	-	-	-
Category	-	-	-
Fish	-	-	-

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	Morena	Morena	Karua, Piparseva	Pearl millet, Wheat and mustard	Low productivity	- To increase cropping intensity and crops on sustainable basis - To increase adoption of Integrated Nutrient Management(INM), Integrated Pest Management(IPM),post-harvest techniques in crops, fruits and
2	Ambah	Ambah	Sirmor ka pura	Pearl millet, Wheat and mustard	Low productivity	
3	Porsa	Porsa	Barbai, Singpura	Pearl millet, Wheat and mustard	Low productivity	
4	Joura	Joura	Baroli	Pearl millet,	Low	

				Wheat and mustard	productivity	vegetables
5	Kailarash	Kailarash	Bastoli	Pearl millet, Wheat and mustard	Low productivity	- To promote orchard and cultivation of vegetables/spices/medicinal crops to improve socio-economic conditions of rural peoples - To control soil and water erosion through water harvesting ,conservation and appropriate measures for efficient soil moisture utilization - To develop seed villages and distribution of improved variety seed of major agricultural crops (Mustard, Wheat, Sesame, green gram, Black gram etc.) - Production and utilization of different organic manures and biofertilizers under Integrated Nutrient management(INM) - To create awareness of enhancing productivity of milch animals through genetic improvement, balance feeding , management and health care - Empowering women and rural youth through income generating activities like value addition , Dairying, poultry farming, seed production, nursery raising, vermicomposting and beekeeping
6	Sabalgarh	Sabalgarh	-	-	-	-
7	Pahadgarh	Pahadgarh	-	-	-	-

Priority / Thrust areas

S. No.	Particulars
1.	To increase cropping intensity and crops on sustainable basis
2.	To increase adoption of Integrated Nutrient Management(INM), Integrated Pest Management(IPM), post-harvest techniques in crops, fruits and vegetables
3.	To promote orchard and cultivation of vegetables/spices/medicinal crops to improve socio-economic conditions of rural peoples
4.	To control soil and water erosion through water harvesting ,conservation and appropriate measures for efficient soil moisture utilization
5.	To develop seed villages and distribution of improved variety seed of major agricultural crops (Mustard, Wheat, Sesame, green gram, Black gram etc.)
6.	Production and utilization of different organic manures and biofertilizers under Integrated Nutrient management(INM)
7.	To create awareness of enhancing productivity of milch animals through genetic improvement, balance feeding , management and health care
8.	Empowering women and rural youth through income generating activities like value addition , Dairying, poultry farming, seed production, nursery raising, vermicomposting and beekeeping

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
21	210	17	170

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
107	2675	309	60020

Seed Production (Qtl.)	Planting material (Nos.)
2.0 (Vegetable seed)	10000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	INM	Pearl millet	Access use of Nitrogen in urea granule form	Assessment of application of nano urea on pearl millet	-	Importance of liquid nano fertilizer in millet	-	Print media	-
2	INM	Pearl millet	Low yield due to	Assessment of zinc sulphate on	-	Integrated nutrient	-	Print media	-

			imbalance use fertilizer	pearl millet		managem ent in pearl millet			
3	HOV	Bottle guard	Low yield due to more number of staminate flowers (Sex ratio)	Assessment of PGRs in Bottle guard crop for increasing pistilate flowers	-	-	Importa nce of PGRs in cucurbits	Radio Talk	-
4	HOF	Guava	Low yield and substandard quality of fruits	Assessment of crop regulation practice in guava fruit crop	-	-	Crop regulation technolog y in Guava fruit crop	Radio Talk	-
5	IPM	Pigeon pea	Losses about 18-28% due to pod fly and pod borer	Assessment of IPM technology for management of pod fly and pod borer in pigeon pea	-	IPM in pigeon pea	-	Print media	-
6	LPM	Buffalo	Prevalence of subclinical mastitis in buffaloes	Assessment of vitamin E and selenium for management of subclinical mastitis in graded murrah buffaloes	-	-	Feeding managem ent in buffalo	Print media	-
6	LPM	Buffalo	Low milk fat and yield due to negative energy balance	Assessment of feeding of bypass fat for ets effect on milk production in high lactating graded murrah buffaloes	-	-	-	Print media	-
7	CP	Mustard	Low yield due to use of old variety	Assessment of improved varieties of mustard	-	Production technology of mustard	-	Print media	-
8	CP	Wheat	Low yield due to use of old variety Lok-1/GW 322	Assessment of improved varieties of wheat	-	-	Productio n technolog y of Rabi crops	Print media	-
9	HOV	Pea	Low yield due to use of old variety (Arkel)	Assessment of high yield varieties of garden pea	-	Production technology of garden pea	-	Print media	-
10	HOF	Marigol	Minimum self life of	Assessment of zinc and iron	-	Production technology	-	Print media	-

		d	intact flower	nutrients for longevity of intact flower in marigold crop		of marigold			
11	IDM	Mustard	Losses about 15-25% due to heavy incidence of Sclerotinia stem rot and Alternaria blight	Assessment of IDM technology for management of sclerotinia stem rot alternaria blight in Mustard	-	-	Disease management in mustard	Print media	-
12	IPM	Berseem	Losses about 20-25% due to heavy infestation of Helicoverpa armigera	Assessment of Agniastra for management of Helicoverpa armigera in Berseem	-	-	-	Print media	-
13	LPM	Buffalo	Low milk yield due to indigestibility of feed due to lack of probiotic	Assessment of yeast culture for its effect on fiber digestion and milk production in dairy buffaloes	-	-	Feeding management in buffalo	Print media	-
14	LPM	Buffalo	Low milk yield due to deficiency of calcium and minerals	Assessment of Calcium (liquid) supplements for its effect on milk production in graded murrah buffaloes	Demonstration of mineral and vitamin mixture feeding for its effect on milk production and reproduction in dairy buffaloes	-	Feeding management in buffalo	Print media	-
15	CBD	-	Poor knowledge about SHC recommendation	Assessment of knowledge & adoption of soil health card based fertilizer application	-	-	-	Print media	-
16	Income generation	-	Low income due to farm gate selling	Assessment of Income of self-Helf Group of	-	Formation of SHG	-	Print media	-

			of birds	poultry farmers					
17	Nutritional security	pearl millet	Nutritional insecurity among farm families	Assessment of bio fortified varieties of pearl millet for nutritional security of farm families	-	Balance diet for pregnant ladies	-	Print media	-
18	Nutritional security	-	Nutritional insecurity among preschool children	Assessment of nutritive porridge for nutritional security of preschool children	-	-	Nutritional security for preschool children	Print media	-
19	Value addition	Mushroom	Low shelf life, post harvest losses (18-20%), less income, Contamination and the disposal problem from mushroom substrate	Assessment of post harvest management of oyster mushroom and its substrate	-	Income generation through mushroom production	-	Print media	-
20	Weed management	Black gram	Low yield due to weed infestation	-	Demonstration of Chemical weed management in black gram crop	-	Weed management in kharif crops	Field day	-
21	Weed management	Pearl millet	Low yield due to weed infestation	-	Demonstration of chemical weed management in pearl millet	Weed management in pearl millet	-	Field day	-
22	Nutrient management	Onion	Low yield due to no use of balance fertilizers	-	Demonstration on nutrient management in kharif onion under onion-cole cropping system	-	Production technology of kharif vegetable	Radio talk and field day	-
23	DM	Vegetable	High	-	Demonstration	-	-	Print media	-

		les Seedlings	mortality due to soil born disease		n on nursery bed treatment for soil born disease management				
24	IPM	Paddy	Low yield of due to heavy insect infestation	-	Demonstration of IPM technology for management of stem borer and leaf folder in paddy	IPM in paddy	-	Field day	-
25	LPM	Buffalo	High mortality due to worm infestation	-	Demonstration of deworming for management of buffalo calf mortality	-	Deworming in calf	Field day	-
26	ICT	Multi disciplinary massaging	-	-	Demonstration of dissemination of agriculture information through KMA	-	-	Print media	-
27	ICT	Dairy animal	-	-	Demonstration of adoption of mineral mixture feeding for dairy animals	-	-	Print media	-
28	Varietal	Wheat	Low yield due to old variety	-	Demonstration of improved variety of wheat crop	-	Production technology of Rabi crops	Field day	-
29	Varietal	Mustard	Low yield due to old variety	-	Demonstration of improved variety of mustard crop	-	Production technology of Rabi crops	Field day	-
30	Nutrient management	Egg plants	Low yield due to imbalance use of fertilizer	-	Demonstration on foliar application of nutrients on egg plants	-	Production technology of Rabi vegetable	Field day	-
31	Nursery raising management	Vegetable	High mortality of seedlings	-	Demonstration on Hi tech Nursery raising in Vegetables	Importance of Hi tech Horticulture	-	Print media	-
32	IDM	Potato	Low yield due to no use of disease management	-	Demonstration of IDM technology for management of tuber born disease (Black scurf	IDM in potato crop	-	Field day	-

					and common scab) in potato				
33	IPM	Mustard	Low yield due to Aphid infestation	-	Demonstration of IPM technology for management of Aphid in mustard	IPM in mustard	-	Field day	-
34	LPM	Buffalo	Low yield due to ecto endo parasites	-	Demonstration of ivermectin for control of ecto and endo parasites in dairy buffalo	ecto and endo parasites in buffalo	-	Radio talk and print media	-
35	LPM	Buffalo	Low yield due to ecto parasites	-	Demonstration of deltamethrin for management of ecto parasites in dairy buffalo	Ecto parasites in buffalo	-	Radio talk	-
36	WOE	-	-	-	Demonstration of nutritional garden for women and their family member	Importance of nutritional garden	-	Print media	-
37	WOE	Ring cutter	High drudgery due to no use of vegetable plucking equipment	-	Demonstration of drudgery reduction of farm women in vegetable plucking using ring cutter	-	-	Print media	-
38	WOE	Drumstick	-	-	Demonstration of Moringa leaves powder/ Capsules for adolescent girls	-	-	Print media	-
39	WOE	Mushroom	-	-	Demonstration of Mushroom powder supplementation for nutritional security of preschool children	-	-	Print media	-

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
INM	02	-	-	-	02	-	-	-	-	04
HOV	-	-	-	-	02	-	-	-	-	02
HOF	-	-	-	-	-	01	01	-	-	02
IPM	01	01	01	01	-	-	-	-	-	04
CP	01	01	-	-	-	-	-	-	-	02
DM	-	01	-	-	02	-	-	-	-	03
Varietal	01	01	-	-	-	-	-	-	-	02
WM	01	-	01	-	-	-	-	-	-	02
TOTAL	06	04	02	01	06	01	01	-	-	21

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
LPM	07	-	-	-	-	-	-	07
ICT	01	-	-	-	-	-	-	01
TOTAL	08	-	-	-	-	-	-	08

Kharif OFT

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Pearl millet	
Title of on farm trial	Assessment of application of nano urea on pearl millet	
Problem diagnosed	Access use of Nitrogen in urea granule form	
Farmers' Practices	Use of granular form of urea	
Details of technologies selectedfor assessment	T ₁	Farmer Practice
	T ₂	Spray of nano urea at 30 DAS
Source of technology	RVSKVV, Gwalior	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	Rs. 4500/-	
Critical input	Nano urea	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tiller/hil, cob length (cm), yield (kg/ha)	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of application of nano urea on pearl millet
Year/Season:	2023/Kharif

Farming situation:	Irrigated
Problem diagnosis:	Access use of Nitrogen in urea granule form
Thematic area:	Balance fertilizer application, liquid fertilizer application under 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-	Farmer Practice
T2 –Recommended Practice-	Spray of nano urea at 30 DAS
T3- Recommended Practice-	Spray of nano urea at 30 and 50 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Pearl millet
Recommendations for Farmers	
Recommendations for Deppt. Personnel	
Feedback	

OFT-2

Crop / Enterprise	Pearl millet
Title of on farm trial	Assessment of zinc sulphate on pearl millet
Problem diagnosed	Low yield due to imbalance use fertilizer
Farmers' Practices	No use of zinc sulphate
Details of technologies selectedfor assessment	T ₁ Farmer Practice
	T ₂ Application of zinc sulphate @ 15kg/ha
Source of technology	Agriculture University, Bikaner (R.J.)
Plot size	0.2 ha
No. of farmers	10
Total cost	Rs. 4000/-
Critical input	zinc sulphate
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tiller/plant, length of ear head (cm), yield (kg/ha)

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of zinc sulphate on pearl millet
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use fertilizer
Thematic area:	Balance fertilizer application, Soil applications under 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-	Farmer Practice
T2 –Recommended Practice-	Application of zinc sulphate @ 15kg/ha
T3- Recommended Practice-	Application of zinc sulphate @ 25kg/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Agriculture University, Bikaner (R.J.)
Characteristics of technology:	
Name of Crop/Enterprises:	Pearl millet
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Crop / Enterprise	Bottle guard	
Title of on farm trial	Assessment of PGRs in Bottle guard crop for increasing pistilte flowers	
Problem diagnosed	Low yield due to more number of staminate flowers (Sex ratio)	
Farmers' Practices	No use of PGRs	
Details of technologies selectedfor assessment	T ₁	Farmer Practice
	T ₂	Foliar application of 2-chloroethyl phosphonic acid @ 200ppm during 2 and 4 true leaf stage
Source of technology	RVSKVV, Gwalior	
Plot size	0.2ha	
No. of farmers	10	
Total cost	Rs.2500/-	
Critical input	PGRs	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Sex ratio, 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)	Horticulture
Title of on-farm trial:	Assessment of PGRs in Bottle guard crop for increasing pistilte flowers
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to more number of staminate flowers (Sex ratio)
Thematic area:	Use of PGRs,HOV
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	

T1 – Farmers Practice-	Farmer Practice
T2 –Recommended Practice-	Foliar application of 2-chloroethyl phosphonic acid @ 200ppm during 2 and 4 true leaf stage
T3- Recommended Practice-	Foliar application of sodium para-nitrophenolate @ 5000ppm, 25-30 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Bottle guard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Crop / Enterprise	Guava	
Title of on farm trial	Assessment of crop regulation practice in guava fruit crop	
Problem diagnosed	Low yield and substandard quality of fruits	
Farmers' Practices	No use of crop regulation practices	
Details of technologies selected for assessment	T ₁	Farmer Practice
	T ₂	Foliar application of urea @ 10% in month of April.
Source of technology	RVSKVV, Gwalior	
Plot size	0.2ha	
No. of farmers	10	
Total cost	Rs.1250/-	
Critical input	Chemical fertilizer urea	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of fruits/branch, TSS (°Brix), Yield (q/tree)	

Detailed Information about OFT:

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 crop regulation practice in guava fruit crop
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield and substandard quality of fruits
Thematic area:	Use of urea, HOF

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
T2 –Recommended Practice-	Foliar application of urea @ 10% in month of April.
T3- Recommended Practice-	Foliar application of urea solution @ 15% in month of April.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Guava
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

Crop / Enterprise	Pigeon pea	
Title of on farm trial	Assessment of IPM technology for management of pod fly and pod borer in pigeon pea	
Problem diagnosed	Losses about 18-28% due to pod fly and pod borer	
Farmers' Practices	Use of Chloropyriphos 20 EC @ 1500ml/ha	
Details of technologies selectedfor assessment	T ₁	Spray of NPV@350LE/ha and 1/2 Dose of monocrotophos
	T ₂	Spray of NSKE 5% followed by 0.04% monocrotophos at One week interval
Source of technology	ICAR-IIPR, Kanpur	
Plot size	0.2ha	
No. of farmers	10	
Total cost	Rs. 5000/-	
Critical input		
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	% infestation, % pod damage and Yield (q/ha)	

Detailed Information about OFT:

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

Fisheries etc)	
Title of on-farm trial:	Assessment of IPM technology for management of pod fly and pod borer in pigeon pea
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Losses about 18-28% due to pod fly and pod borer
Thematic area:	Wheat-Pigeon pea cropping system, IPM
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 NPV@350LE/ha and 1/2 Dose of monocrotophos
T2 –Recommended Practice-	Spray of NSKE 5% followed by 0.04% monocrotophos at One week interval
T3- Recommended Practice-	Spray of Dimethoate 0.036 followed by NPV@350 LE/ha and 1/2 Dose of monocrotophos
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-IIPR, Kanpur
Characteristics of technology:	
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -6

1	Enterprise	Dairy Buffalo
2	Title of on-farm trial	Assessment of vitamin E and selenium for management of subclinical mastitis in graded murrah buffaloes
3	Problem diagnosed	Prevalence of subclinical mastitis in buffaloes
4	Farming situation	Mixed farming
5	Production system and thematic area	Disease Management
6	Farmers' practices	No use of drugs for prevention
7	Details of technologies selected for assessment/refinement Treatments	T1: No use of drugs for prevention T2: Vitamin E and selenium powder @5-10 g/day/buffalo for two months
8	Source of technology	NDRI, Karnal
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Vitamin E and Selenium Powder

12	Cost of input	Rs. 9000/-
13	Total cost	Rs. 12500/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield, disease incidence, Net return, BCR

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of vitamin E and selenium for management of subclinical mastitis in graded murrah buffaloes
Year/Season:	2023/Kharif
Farming situation:	Mixed farming
Problem diagnosis:	Prevalence of subclinical mastitis in buffaloes
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-	No use of drugs for prevention
T2 –Recommended Practice-	Vitamin E and selenium powder @5-10 g/day/buffalo for two months
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal
Characteristics of technology:	
Name of Crop/Enterprises:	Dairy Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -7

1	Enterprise	Dairy Buffalo
2	Title of on-farm trial	Assessment of feeding of bypass fat for ets effect on milk production in high lactating graded murrah buffaloes
3	Problem diagnosed	Low milk fat and yield due to negative energy balance
4	Farming situation	Mixed farming
5	Production system and thematic area	Feeding Management
6	Farmers' practices	No use of bypass fat feeding

7	Details of technologies selected for assessment/refinement Treatments	T1: No Use of supplements T2: Bypass fat @ 100g/day/buffalo for two months
8	Source of technology	NDRI, Karnal
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Bypass fat
12	Cost of input	Rs. 7400/-
13	Total cost	Rs.12000/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield, fat %, Net return, BCR

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of feeding of bypass fat for its effect on milk production in high lactating graded murrah buffaloes
Year/Season:	2023/Kharif
Farming situation:	Mixed farming
Problem diagnosis:	Low milk fat and yield due to negative energy balance
Thematic area:	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-	No Use of supplements
T2 –Recommended Practice-	Bypass fat @ 100g/day/buffalo for two months
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal
Characteristics of technology:	
Name of Crop/Enterprises:	Dairy Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Rabi OFT

OFT-1

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of improved varieties of mustard	
Problem diagnosed	Low yield due to use of old variety	
Farmers' Practices	Improved variety, Varietal assessment	
Details of technologies selected for assessment	T ₁	Farmer Practice
	T ₂	Giriraj
Source of technology	DRMR, Bharatpur (R.J.)	
Plot size	0.2ha	
No. of farmers	10	
Total cost	Rs. 2500/-	
Critical input	Variety	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of branch/ plant, pod length (cm), yield (kg/ha)	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of improved varieties of mustard
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of old variety
Thematic area:	Improved variety, Varietal assessment
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
T2 –Recommended Practice-	Giriraj
T3- Recommended Practice-	Bajraj/Radhika
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DRMR, Bharatpur (R.J.)
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of improved varieties of wheat
Problem diagnosed	Low yield due to use of old variety Lok-1/GW 322
Farmers' Practices	Use of old variety Lok-1/GW 322
Details of technologies selected for assessment	T ₁ Farmer Practice
	T ₂ Pusa Tejas
Source of technology	DWR, Karnal (HR)
Plot size	0.2ha
No. of farmers	10
Total cost	Rs.15000/-
Critical input	Variety
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of tiller/ plant, yield (kg/ha)

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of improved varieties of wheat
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of old variety Lok-1/GW 322
Thematic area:	Improved variety
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer Practice
T2 –Recommended Practice-	Pusa Tejas
T3- Recommended Practice-	DBW 303
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DWR, Karnal (HR)
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Crop / Enterprise	Pea	
Title of on farm trial	Assessment of high yield varieties of garden pea	
Problem diagnosed	Low yield due to use of old variety (Arkel)	
Farmers' Practices	No use of Arkel variety	
Details of technologies selected for assessment	T ₁	Farmer Practice
	T ₂	Kashi Nandani
Source of technology	IIVR	
Plot size	0.2ha	
No. of farmers	10	
Total cost	Rs12500/-	
Critical input	Variety	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of tiller/ plant, yield (kg/ha)	

Detailed Information about OFT:

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 yield varieties of garden pea
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of old variety (Arkel)
Thematic area:	Use of improved varieties, HOV
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer Practice
T2 –Recommended Practice-	Kashi Nandani
T3- Recommended Practice-	GS-10
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR
Characteristics of technology:	
Name of Crop/Enterprises:	Pea
Recommendations for Farmers	
Recommendations for Depts. Personnel	
Feedback	

OFT-4

Crop / Enterprise	Marigold
Title of on farm trial	Assessment of zinc and iron nutrients for longevity of intact flower in marigold crop

Problem diagnosed	Minimum self life of intact flower	
Farmers' Practices	No use of self life enhancing nutrients	
Details of technologies selected for assessment	T ₁	Farmer Practice
	T ₂	0.5% ZnSO ₄ as a foliar spray at 10 DAT
Source of technology	IARI	
Plot size		
No. of farmers	10	
Total cost	Rs.1250/-	
Critical input	Nutrients	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Longevity of intact flower (Days), 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)	Horticulture
Title of on-farm trial:	Assessment of zinc and iron nutrients for longevity of intact flower in marigold crop
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Minimum self life of intact flower
Thematic area:	Use of micronutrients for enhancing self life of intact flower, HOF
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
T2 –Recommended Practice-	0.5% ZnSO ₄ as a foliar spray at 10 DAT
T3- Recommended Practice-	0.5% ZnSO ₄ +0.5% FeSO ₄ as a foliar spray at 10 DAT
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IARI
Characteristics of technology:	
Name of Crop/Enterprises:	Marigold
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

Crop / Enterprise	Mustard
Title of on farm trial	Assessment of IPM technology for management of sclerotinia stem rot alternaria

	blight in Mustard	
Problem diagnosed	Losses about 15-25% due to heavy incidence of Sclerotinia stem rot and Alternaria blight	
Farmers' Practices	Seed treatment with carbendazim @ 2g/kg seed	
Details of technologies selected for assessment	T ₁	Seed treatment with Trichoderma harzianum @ 5g/kg seed
	T ₂	Foliar spray of Allium sativum bulb extract (1% W/V)
Source of technology	ICAR-DRMR, Bharatpur	
Plot size	0.2ha	
No. of farmers	10	
Total cost	Rs. 5000/-	
Critical input	Trichoderma harzianum, Allium sativum bulb (Garlic bulb) extract and Pseudomonas fluorescence	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	% disease incidence, 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 IPM technology for management of sclerotinia stem rot alternaria blight in Mustard
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Losses about 15-25% due to heavy incidence of Sclerotinia stem rot and Alternaria blight
Thematic area:	Pearl millet-Mustard cropping system, IPM
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 Trichoderma harzianum @ 5g/kg seed
T2 –Recommended Practice-	Foliar spray of Allium sativum bulb extract (1% W/V)
T3- Recommended Practice-	Seed treatment with Trichoderma harzianum @5g/kg seed followed by foliar
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-DRMR, Bharatpur
Characteristics of technology:	

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

OFT-6

Crop / Enterprise	Berseem
Title of on farm trial	Assessment of Agniastra for management of Helicoverpa armigera in Berseem
Problem diagnosed	Losses about 20-25% due to heavy infestation of Helicoverpa armigera
Farmers' Practices	Use of Chloropyriphos 20 EC @ 1500ml/ha
Details of technologies selected for assessment	T ₁ Use of HaNPV@250LE/ha (At incidence of pest)
	T ₂ Foliar spray of Agniastra 3% (Preventive spray 10 Days after harvesting of mustard crop and than need based application at 15 Days interval)
Source of technology	NCOF, Gaziabad
Plot size	
No. of farmers	10
Total cost	Rs. 5000/-
Critical input	HaNPV, Garlic, green chilli and spinosad 45 SC
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	% infestation, Number of larva/M ² and 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 Agniastra for management of Helicoverpa armigera in Berseem
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Losses about 20-25% due to heavy infestation of Helicoverpa armigera
Thematic area:	Mustard-Berseem relay cropping system, IPM
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 HaNPV@250LE/ha (At incidence of pest)
T2 –Recommended Practice-	Foliar spray of Agniastra 3% (Preventive spray 10 Days after harvesting of mustard crop and than need based application at 15 Days interval)

T3- Recommended Practice-	Foliar spray of spinosad 45 SC@167 ml/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCOF, Gaziabad
Characteristics of technology:	
Name of Crop/Enterprises:	Berseem
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -7

1	Enterprise	Dairy Buffalo
2	Title of on-farm trial	Assessment of yeast culture for its effect on fiber digestion and milk production in dairy buffaloes
3	Problem diagnosed	Low milk yield due to indigestibility of feed due to lack of probiotic
4	Farming situation	Mixed farming
5	Production system and thematic area	Feeding Management
6	Farmers' practices	No use of Probiotics
7	Details of technologies selected for assessment/refinement Treatments	T1: No use of drugs T2: Probiotics @ 20g/day/animal
8	Source of technology	IVRI, Izzatnagar
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Yeast culture
12	Cost of input	Rs. 3000/-
13	Total cost	Rs.10000/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield, Net return, BCR

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of yeast culture for its effect on fiber digestion and milk production in dairy buffaloes
Year/Season:	2023-24/Rabi
Farming situation:	Mixed farming
Problem diagnosis:	Low milk yield due to indigestibility of feed due to lack of probiotic
Thematic area:	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-	No use of drugs
T2 –Recommended Practice-	Probiotics @ 20g/day/animal
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IVRI, Izzatnagar
Characteristics of technology:	
Name of Crop/Enterprises:	Dairy Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT - 8

1	Enterprise	Dairy Buffalo
2	Title of on-farm trial	Assessment of Calcium (liquid) supplements for its effect on milk production in graded murrah buffaloes
3	Problem diagnosed	Low milk yield due to deficiency of calcium and minerals
4	Farming situation	Mixed farming
5	Production system and thematic area	Feeding Management
6	Farmers' practices	No use of calcium supplements
7	Details of technologies selected for assessment/refinement Treatments	T1: No use of calcium supplements T2: liquid calcium supplements @ 100ml/day/buffalo
8	Source of technology	NDRI, Karnal
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Liquid Calcium supplement
12	Cost of input	Rs. 8000/-
13	Total cost	Rs. 12500/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield, Net return, BCR

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of Calcium (liquid) supplements for its effect on milk production in graded murrah buffaloes
Year/Season:	2023-24/Rabi

Farming situation:	Mixed farming
Problem diagnosis:	Low milk yield due to deficiency of calcium and minerals
Thematic area:	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-	No use of calcium supplements
T2 –Recommended Practice-	Liquid calcium supplements @ 100ml/day/buffalo
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal
Characteristics of technology:	-
Name of Crop/Enterprises:	Dairy Buffalo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT: OFT-9

Title	Assessment of knowledge & adoption of soil health card based fertilizer application
Season & Year	Kharif & Rabi 2023-24
Problem identified	Poor knowledge about SHC recommendation
Thematic Area	CBD
Farming situation	Irrigated
Name of Technology Intervention under study	T1: To find out the awareness, knowledge and adoption of farmers onward soil health card practices T2: To study the attitude of farmers towards soil health card practices. T3: To study the Constraints perceived by the farmers in adoption of soil health card recommendation
Farmers Practice	Farmers are not using fertilizers as per SHC Recommendation
No. of replication (Farmers)	10

Results / findings

Performance indicators/ parameters	Unit/ details

OFT-10

Title	Assessment of Income of self-Helf Group of poultry farmers
Season & Year	Kharif & Rabi 2023-24

Problem identified	Low income due to farm gate selling of birds
Thematic Area	Income generation
Farming situation	Mixed farming
Name of Technology Intervention under study	T1 : Low income source of SHG T2 : Income generation of SHG through marketing channel
Farmers Practice	Rearing of Desi birds
No. of replication (Farmers)	20

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: OFT-11

Title of on-farm trial:	Assessment of biofortified varieties of pearl millet for nutritional security of farm families
Year/Season:	2023/Kharif
Problem diagnosis:	Nutritional insecurity among farm families
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-	Hybrid pearl millet
T2 –Recommended Practice-	T2:Biofortified Pearl millet variety AHB-1200 T3: Biofortified Pearl millet variety AHB-1269
Source of technology:	ICRISAT, Pearl millet 2017
Characteristics of technology:	Rich in iron (73.0 ppm) in comparison to 45.0-50.0 ppm in popular varieties/hybrids , Grain yield: 32.0 q/ha , Dry fodder yield: 70.0 q/ha, Maturity: 78 days
Name of Crop/Enterprises:	Pearl millet
Farming situation:	Semi-irrigated
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-12

Title of on-farm trial:	Assessment of nutritive porridge for nutritional security of preschool children
Year/Season:	2023/Kharif
Problem diagnosis:	Nutritional insecurity among preschool children
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	10
No. of farmers/farm women involved	10 preschool children
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Existing dietary pattern with no or wheat porridge
T2 –Recommended Practice-	T2: Durum wheat porridge T3: Multigrain porridge
Source of technology:	IARI Indore
Characteristics of technology:	Low price nutritious foods, rich in calories, protein and adequate amount of trace elements like iron, calcium, vitamins
Name of Crop/Enterprises:	Nutritive Porridge
Farming situation:	Semi-irrigated
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-13

Title of on-farm trial:	Assessment of biofortified varieties of wheat for nutritional security of farm families
Year/Season:	2023-24/ Rabi
Problem diagnosis:	Nutritional insecurity
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-	Lok-1
T2 –Recommended Practice-	T2: Biofortified Wheat variety Pusa Tejas

	T3: Biofortified Wheat variety WB -02
Source of technology:	IARI Indore and ICAR- IIWBR, Karnal, Haryana
Characteristics of technology:	- High protein content (~12.0 %), good levels of yellow pigment (~5.7 ppm), and essential micronutrients like iron (42.1 ppm) and zinc (42.8 ppm); with very high overall acceptability (7.5), Yield: 58 q/ha - Rich in zinc (42.0 ppm) & iron (40.0 ppm) in comparison to 32.0 ppm zinc & 28.0-32.0 ppm iron in popular varieties, Grain yield: 51.6 q/ha, Maturity: 142 days, Yield: 54 q/ha
Name of Crop/Enterprises:	Biofortified varieties of wheat
Farming situation:	Semi-irrigated
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-14

Title of on-farm trial:	Assessment of post harvest management of oyster mushroom and its substrate
Year/Season:	2023-24/ Rabi
Problem diagnosis:	Low shelf life, post harvest losses (18-20%), less income, Contamination and the disposal problem from mushroom substrate
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-	No post harvest management of oyster mushroom and its substrate
T2 –Recommended Practice-	T2: Production and Value addition of mushroom T3: Production, value addition of mushroom and conversion of spent mushroom substrate into vermi -compost
Source of technology:	NRCM Solan, GBPUA&T Pantnagar
Characteristics of technology:	Value addition of mushroom, Spent mushroom substrates is a nutrient rich organic by product of mushroom and suitable for vermicomposting, income through mushroom and vermi compost production, healthy environment
Name of Crop/Enterprises:	Mushroom
Farming situation:	Irrigated
Date of sowing:	
Date of harvesting:	

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

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

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Black gram	Weed management	Demonstration of Chemical weed management in black gram crop	Herbicide	Kharif 2023	5.0	10	Yield kg/ha
2	Pearl millet	Weed management	Demonstration of Chemical weed management in Pearl millet crop	Herbicide	Kharif 2023	5.0	10	Yield kg/ha
3	Onion	Nutrient management	Demonstration on nutrient management in Kharif onion under onion-cole cropping system	Potassium and sulphur based fertilizer	Kharif 2023	2.0	10	Bulb diameter (cm), Yield (q/ha)
4	Vegetables Seedlings	DM	Demonstration on nursery bed treatment for soil born disease management	Fungicide	Kharif 2023	0.1	10	Disease incidence (%), survival (%)
5	Paddy	IPM	Demonstration of IPM technology for management of stem borer and leaf folder in paddy	Chloantran iliprole 0.4G	Kharif 2023	2.0	10	% infestation and yield (q/ha)
6	Dairy Buffalo	LPM	Demonstration of mineral and vitamin mixture feeding for its effect on milk production and reproduction in dairy buffaloes	Mineral and Vitamin mixture	Kharif 2023	10 animal	10	Milk yield, net return, BCR
7	Dairy Buffalo	LPM	Demonstration of deworming for management of buffalo calf mortality	Liquid albendazol	Kharif 2023	10 animal	10	Mortality, net return, BCR
8	Multi disciplinary Massage	ICT	Demonstration of dissemination of agriculture information through KMA	-	Kharif & Rabi 2023-24	18432 farmers		No of farmers
9	Dairy animal	ICT	Demonstration of adoption of mineral mixture feeding for dairy animals	Mineral mixture	Kharif & Rabi 2023-24	10	10	% adoption, Feedback, Farmers reaction
10	Wheat	Varietal	Demonstration of improved variety of wheat crop	Seed	Rabi 2023-24	5.0	10	Yield kg/ha
11	Mustard	Varietal	Demonstration of improved variety of mustard crop	Seed	Rabi 2023-24	5.0	10	Yield kg/ha
12	Egg plants	Nutrient management	Demonstration on foliar application of nutrients on egg plants	Chemical nutrient	Rabi 2023-24	2.0	10	No. of fruit/ plant, Yield (q/ha)
13	Vegetables	Nursery raising	Demonstration on Hi tech Nursery raising in Vegetables	Soiless media in pro tray	Rabi 2023-24	-	10	Survival Percentage of raised

								seedling
14	Potato	IPM	Demonstration of IPM technology for management of tuber born diseases (Black scurf and common scab) in potato	Boric acid	Rabi 2023-24	2.0	10	% Disease incidence and yield (q/ha)
15	Mustard	IPM	Demonstration of IPM technology for management of Aphid in mustard	NSKE 5%	Rabi 2023-24	2.0	10	Aphid infestation and yield (q/ha)
16	Dairy Buffalo	LPM	Demonstration of ivermectin for control of ecto and endo parasites in dairy buffalo	Ivermectin bolus	Rabi 2023-24	10 animal	10	Milk yeild , net return, BCR
17	Dairy Buffalo	LPM	Demonstration of deltamethrin for management of ecto parasites in dairy buffalo	Deltamethr in 12.5% @ 1 ml/lit. of water for animal bathing	Rabi 2023-24	10 animal	10	Milk yeild , net return, BCR

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	September and February	650
2	Farmers Training	10	June, July, Sept and Oct.	250
3	Media coverage	20	June, July, Sept and Oct.	Mass
4	Training for extension functionaries	02	June and Sept.	60

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
LPM	Demonstration of ivermectin for control of ecto and endo parasites in dairy buffalo	10	10 animal	Ivermectin bolus	Milk yeild , net return, BCR	-	-

LPM	Demonstration of deltamethrin for management of ecto parasites in dairy buffalo	10	10 animal	Deltamethrin 12.5% @ 1 ml/lit. of water for animal bathing	Milk yeild , net return, BCR	-	-
LPM	Demonstration of mineral and vitamin mixture feeding for its effect on milk production and reproduction in dairy buffaloes	10	10 animal	Mineral and Vitamin mixture	Milk yield, net return, BCR	-	-
LPM	Demonstration of deworming for management of buffalo calf mortality	10	10 animal	Liquid albendazol	Mortality, net return, BCR	-	-

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

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Unit s/ area	Critical inputs	Performan ce parameters / indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration of nutritional garden for women and their family member	Seeds and seedlings of nutritive vegetable and fruits	12 Farm women	12	Seeds and seedlings of nutritive vegetable and fruits	Anthropometric measurements Farm women's reaction, B: C ratio	Yield (kg/unit area), Per capita Consumption (gm/ day), Nutrient intake/unit	Yield (kg/unit area), Per capita Consumption (gm/ day), Nutrient intake/unit
Demonstration of drudgery reduction of farm women in vegetable plucking using ring cutter	Ring cutter	10 Farm women	10	Ring cutter	Percent reduction in drudgery, Percent increase in efficiency, Farm women's reaction, B: C ratio	Output (kg/hr), Estimated Energy Expenditure (kj/min), WHR (beat/min)	Output (kg/hr), Estimated Energy Expenditure (kj/min), WHR (beat/min)

Demonstration of Moringa leaves powder/ Capsules for adolescent girls	Moringa leaves powder Capsules	10 Adolescent girls	10	Moringa leaves powder Capsules	Anthropometric measurement, Adolescent girls 's reaction, B: C ratio	Per capita Consumption (gm/ day), Nutrient intake/unit, Haemoglobin level	Per capita Consumption (gm/ day), Nutrient intake/unit, Haemoglobin level
Demonstration of Mushroom powder supplementation for nutritional security of preschool children	Mushroom powder	10 preschool children	10	Mushroom powder	Anthropometric measurements, Farm women's reaction, B: C ratio	Per capita Consumption (gm/ day), Nutrient intake/unit	Per capita Consumption (gm/ day), Nutrient intake/unit

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

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	6	April-March 2023-24	150
2	Farmers Training	9	April-March 2023-24	225
3	Media coverage	5	April-March 2023-24	Mass
4	Training for extension functionaries	2	April-March 2023-24	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	05	01	100	10	110	20	5	25	125
Resource Conservation Technologies	02	01	30	05	35	10	5	15	50
Integrated Farming	03	01	45	10	55	15	5	20	75
Water management	02	01	30	05	35	10	5	15	50

Seed production	03	01	45	10	55	15	5	20	75
Integrated Crop Management	03	01	45	10	55	15	5	20	75
Total	18	6	295	50	345	85	30	115	450
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	02	01	30	05	35	10	5	15	50
Protective cultivation (Green Houses, Shade Net etc.)	02	01	30	05	35	10	5	15	50
Total	4	02	60	10	70	20	10	30	100
b) Fruits									
Management of young plants/orchards	02	01	30	05	35	10	5	15	50
Total	02	01	30	05	35	10	5	15	50
c) Ornamental Plants	01	01	18	02	20	03	02	05	25
Total	01	01	18	02	20	03	02	05	25
d) Plantation crops	01	01	18	02	20	03	02	05	25
Total	01	01	18	02	20	03	02	05	25
e) Tuber crops	01	01	18	02	20	03	02	05	25
Total	01	01	18	02	20	03	02	05	25
f) Spices									
Production and Management technology	02	01	30	05	35	10	5	15	50
Total	02	01	30	05	35	10	5	15	50
g) Medicinal and Aromatic Plants									
Production and management technology	02	01	30	05	35	10	5	15	50
Total	02	01	30	05	35	10	5	15	50
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	01	01	18	02	20	03	02	05	25
Soil and Water Conservation	01	01	18	02	20	03	02	05	25
Integrated Nutrient Management	01	01	18	02	20	03	02	05	25
Production and use of organic inputs	01	01	18	02	20	03	02	05	25
Management	01	01	18	02	20	03	02	05	25

of Problematic soils									
Micro nutrient deficiency in crops	01	01	18	02	20	03	02	05	25
Nutrient Use Efficiency	01	01	18	02	20	03	02	05	25
Soil and Water Testing	01	01	18	02	20	03	02	05	25
Total	08	08	144	16	160	24	16	40	200
IV Livestock Production and Management									
Dairy Management	02	01	30	05	35	10	5	15	50
Poultry Management	02	01	30	05	35	10	5	15	50
Disease Management	02	01	30	05	35	10	5	15	50
Feed management	02	01	30	05	35	10	5	15	50
Production of quality animal products	02	01	30	05	35	10	5	15	50
Total	10	05	150	25	175	50	25	75	250
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	1	1	-	20	20	-	5	5	25
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Value addition	2	1-5	-	40	40	-	10	10	50
Income generation activities for empowerment of rural Women	2	5	-	40	40	-	10	10	50
Location specific drudgery reduction technologies	1	1	-	25	25	-	-	-	25
Women and child care	2	1	-	50	50	-	-	-	50
Total	07	07	-	155	155	-	20	20	155
VI Agril. Engineering									

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	05	01	100	10	110	20	5	25	125
Resource Conservation Technologies	02	01	30	05	35	10	5	15	50
Cropping Systems	02	01	30	05	35	10	5	15	50
Crop	02	01	30	05	35	10	5	15	50

Diversification									
Integrated Farming	02	01	30	05	35	10	5	15	50
Water management	02	01	30	05	35	10	5	15	50
Seed production	02	01	30	05	35	10	5	15	50
Nursery management	02	01	30	05	35	10	5	15	50
Integrated Crop Management	02	01	30	05	35	10	5	15	50
Fodder production	02	01	30	05	35	10	5	15	50
Production of organic inputs	02	01	30	05	35	10	5	15	50
Total	25	11	400	60	460	120	55	175	625
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	01	30	05	35	10	5	15	50
Export potential vegetables	02	01	30	05	35	10	5	15	50
Protective cultivation (Green Houses, Shade Net etc.)	02	01	30	05	35	10	5	15	50
Total	6	3	90	15	105	30	15	45	150
b) Fruits									
Cultivation of Fruit	02	01	30	05	35	10	5	15	50
Management of young plants/orchards	02	01	30	05	35	10	5	15	50
Export potential of ornamental plants	02	01	30	05	35	10	5	15	50
Propagation techniques of Ornamental Plants	02	01	30	05	35	10	5	15	50
d) Plantation crops	01	01	18	02	20	03	02	05	25
e) Tuber crops	01	01	18	02	20	03	02	05	25
f) Spices	01	01	18	02	20	03	02	05	25
g) Medicinal and Aromatic Plants	01	01	18	02	20	03	02	05	25
III Soil Health and Fertility Management									
Soil fertility management	01	01	18	02	20	03	02	05	25
Soil and Water Conservation	01	01	18	02	20	03	02	05	25
Integrated Nutrient Management	01	01	18	02	20	03	02	05	25
Production and use of organic inputs	01	01	18	02	20	03	02	05	25
Management of Problematic soils	01	01	18	02	20	03	02	05	25
Micro nutrient deficiency in crops	01	01	18	02	20	03	02	05	25
Nutrient Use Efficiency	01	01	18	02	20	03	02	05	25

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	1								

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.	F/FW	Weed management in mustard crop	01	15	4	19	4	2	6	25
July	F/FW	Water and weed management in Kharif crop	01	15	4	19	4	2	6	25
July	F/FW	Technique of Kharif crop production	01	15	4	19	4	2	6	25

Oct.	F/FW	Production technology in pigeon pea	01	15	4	19	4	2	6	25
July	F/FW	Cropping system in kharif crop	01	15	4	19	4	2	6	25
Feb	F/FW	Production technology of zaid crop	01	15	4	19	4	2	6	25
June	F/FW	Demonstration of herbicide FLD Kharif paddy crop	01	15	4	19	4	2	6	25
June	F/FW	Demonstration of herbicide in pearl millet Rabi crop.	01	15	4	19	4	2	6	25
Sept	F/FW	High Yielding variety of mustard crop	01	15	4	19	4	2	6	25
Dec.	F/FW	Demonstration of ITK moisture conservation through mulching in mustard crop	01	15	4	19	4	2	6	25
Horticulture										
June	F/FW	Vegetable production technology in Kharif season	01	15	4	19	4	2	6	25
Sept.	F/FW	Production technology of potato	01	15	4	19	4	2	6	25
Sept.	F/FW	Nursery raising technology of kharif onion	01	15	4	19	4	2	6	25
Sept.	F/FW	Production technology of Chilli, Tomato and brinjal	01	15	4	19	4	2	6	25
Livestock production										
Aug.	F/FW	Importance of balance feeding for milk production in dairy cattle and buffaloes	01	15	4	19	4	2	6	25
Oct.	F/FW	Management of Ecto and Endo parasites in dairy animals	01	15	4	19	4	2	6	25
July	F/FW	Commercial dairy farming	01	15	4	19	4	2	6	25
Home Science										
July	Farm women	Design & development of low cost food through locally available sources	1	-	20	20	-	5	5	25
September	Farm women	Value addition of local produce for nutritional security	1	-	20	20	-	5	5	25
November	Farm women	Drudgery reduction of farm women through improved tools	1	-	25	25	-	-	-	25

Plant Protection										
Nov.	F/FW	IPM in Pigeon pea	01	15	4	19	4	2	6	25
Aug.	F/FW	IPM in paddy & Peal millet	01	15	4	19	4	2	6	25
Sept.	F/FW	Importance of seed treatment in Rabi crops	01	15	4	19	4	2	6	25
Sept.	F/FW	Termite Management in Rabi crops	01	15	4	19	4	2	6	25
Nov.	F/FW	Rodent Management in crops	01	15	4	19	4	2	6	25
Nov.	F/FW	IPM in Mustard	01	15	4	19	4	2	6	25
Nov.	F/FW	IPM in Gram	01	15	4	19	4	2	6	25
Nov.	F/FW	IPM in Potato	01	15	4	19	4	2	6	25
Nov.	F/FW	IPM in Vegetable crops	01	15	4	19	4	2	6	25
March	F/FW	IPM in Berseem	01	15	4	19	4	2	6	25
Nov.	F/FW	Insect and disease management in Apiary	01	15	4	19	4	2	6	25
Dec.	F/FW	Seasonal management in bee keeping	01	15	4	19	4	2	6	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Dec.	F/FW	Importance of green manuring	01	15	4	19	4	2	6	25
Jan.	F/FW	Soil and water conservation in rainy season	01	15	4	19	4	2	6	25
Aug.	F/FW	Importance of organic farming	01	15	4	19	4	2	6	25
June	F/FW	Techniques of round the year greed fodder	01	15	4	19	4	2	6	25
Dec.	F/FW	Importance of irrigation method in Rabi crop	01	15	4	19	4	2	6	25
Soil Science	-	-	-	-	-	-	-	-	-	-

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	F/FW	Weed and water management in Kharif crops	01	15	4	19	4	2	6	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	
Oct.	F/FW	Weed and water management in Rabi crops	01	15	4	19	4	2	6	25
June	F/FW	Weed control in paddy crop	01	15	4	19	4	2	6	25
June	F/FW	Weed control in soybean crop	01	15	4	19	4	2	6	25
May	F/FW	Importance of summer deep ploughing	01	15	4	19	4	2	6	25
Dec.	F/FW	Water management in Rabi crop	01	15	4	19	4	2	6	25
June	F/FW	Importance of crop rotation in Kharif crop	01	15	4	19	4	2	6	25
May	F/FW	Importance of crop rotation in Rabi crop	01	15	4	19	4	2	6	25
Aug	F/FW	Production technique of Mustard and Toriya	01	15	4	19	4	2	6	25
June	F/FW	Importance of green manuring	01	15	4	19	4	2	6	25
June	F/FW	Technique of Kharif crop production	01	15	4	19	4	2	6	25
June	F/FW	Production technique of DSR	01	15	4	19	4	2	6	25
June	F/FW	Production technology short duration Pigeon pea Crop	01	15	4	19	4	2	6	25
Horticulture										
Jan	F/FW	Production technology of early Cucurbits	01	15	4	19	4	2	6	25
Sept.	F/FW	Production technology of garden pea	01	15	4	19	4	2	6	25
Aug.	F/FW	Production technology of marigold	01	15	4	19	4	2	6	25
Livestock production										
June	F/FW	Importance of broiler poultry farming as a income generating source	01	15	4	19	4	2	6	25
Aug	F/FW	Backyard poultry farming	01	15	4	19	4	2	6	25
Oct.	F/FW	Prevention and control of Foot and mouth disease in dairy animals	01	15	4	19	4	2	6	25
Oct.	F/FW	Management of	01	15	4	19	4	2	6	25

[illegible]

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	RY	Seed production of kharif crops	05	22	-	22	03	-	03	25
Sept.	RY	Seed production technology Rabi crops	05	22	-	22	03	-	03	25
Livestock production										
June	RY	Goat farming a profitable enterprises	05	22	-	22	03	-	03	25
Home Science										
September	Rural youths	Mushroom production and value addition for income generation	5	10	10	20	5	5	10	30
November	Farm women	Value addition of fruits, vegetables and millets	5	-	20	20	-	5	5	25
December	Rural youths	Mushroom production and processing techniques	5	10	10	20	5	5	10	30
Plant Protection										
Nov.	RY	Beekeeping management and their importance in Agriculture	05	22	-	22	03	-	03	25
Jan.	RY	Bee Keeping for self employment generation	05	22	-	22	03	-	03	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Aug.	RY	Broiler poultry farming in Morena district	05	22	-	22	03	-	03	25

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration <i>n</i>	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Skill Development training for Beekeeper	Income generation	03 days	RY	01	15	05	03	02	18	7	25	
2	Beekeeping management and employment generation	Income generation	03 days	RY	02	15	05	03	02	18	7	25	

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	15	610	128	738	8	4	12	618	132	750
Kisan Mela	4	1850	134	1984	12	4	16	1862	138	2000
Kisan Ghosthi	10	310	178	488	8	4	12	318	182	500
Exhibition	6	-	-	-	-	-	-	-	-	Mass
Film Show	15	625	112	737	9	4	13	634	116	750
Method Demonstrations	-	-	-	-	-	-	-	-	-	-
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	5	190	45	235	12	3	15	202	48	250
Lectures delivered as resource persons	30	1360	126	1486	10	4	14	1370	130	1500
Newspaper coverage	20	-	-	-	-	-	-	-	-	Mass
Radio talks	10	-	-	-	-	-	-	-	-	Mass
TV talks	10	-	-	-	-	-	-	-	-	Mass
Popular articles										
Extension Literature	15	-	-	-	-	-	-	-	-	Mass
Advisory Services	26	-	-	-	-	-	-	-	-	50000
Scientific visit to farmers field	34	603	115	718	8	4	12	611	119	730
Farmers visit to KVK	30	115	25	140	7	3	10	122	28	150
Diagnostic visits	20	530	107	637	9	4	13	539	111	650
Exposure visits	4	80	10	90	8	2	10	88	12	100
Ex-trainees Sammelan	1	170	95	265	8	2	10	178	97	275
Soil health Camp	2	150	40	190	8	2	10	158	42	200
Animal Health Camp	2	95	0	95	4	1	5	99	1	100
Agri mobile clinic	1	40	0	40	8	2	10	48	2	50
Soil test campaigns	5	80	10	90	8	2	10	88	12	100
Farm Science Club Conveners meet	1	40	0	40	5	0	5	45	0	45
Self Help Group Conveners meetings	2	70	5	75	8	2	10	78	7	85
Mahila Mandals Conveners meetings	1	15	10	25	6	4	10	21	14	35

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Celebration of important days (specify)	10	760	225	985	10	5	15	770	230	1000
Swachhta Hi Sewa Programme	15	-	-	-	-	-	-	-	-	Mass
Parthanium Awareness week	5	200	40	240	8	2	10	208	42	250
Awareness Programme	10	370	120	490	8	2	10	378	122	500
Others (pl. specify)										
Total	309	8263	1525	9788	172	60	232	8435	1585	60020

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
	-	-	-
	-	-	-
OILSEEDS	-	-	-
	-	-	-
PULSES	-	-	-
	-	-	-
VEGETABLES	Amaranthus and others	Pusa Kiran and Lal chulai	2
	-	-	-
	-	-	-
	-	-	-
FLOWER CROPS	-	-	-
	-	-	-
OTHERS (Specify)	-	-	-
	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	G-27,Allahabad Safeda	3000
	-	-	-
SPICES	Onion	ADR/ALR	1000
	-	-	-
	-	-	-
VEGETABLES	Chilli,brinjal,Tomato and cole crops	Hy/OP	6000
	-	-	-
	-	-	-
FOREST SPECIES	-	-	-
	-	-	-
	-	-	-
ORNAMENTAL CROPS	-	-	-
	-	-	-
PLANTATION CROPS	-	-	-
	-	-	-
	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS	-	-	-	-
1	Trichoderma	-	-	-
2	<i>Rhizobium</i>	-	-	-
3	-	-	-	-
BIOFERTILIZERS	-	-	-	-
1	Vermicompost	-	-	10000
2	NADEP	-	-	-
3	-	-	-	-
BIO PESTICIDES				
1	Dasparni arkl	-	-	100
2	Pesticides			
3	-	-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Indigenous	Gir	02	4000
GOAT	Crossbred	Barbari	20	100
POULTRY	Indigenous	Kadaknath	100	1000 chicks
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

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

Date of start	Periodicity	Number of copies to be published
January to March 2023	Quarterly	1000
April to June 2023	Quarterly	1000
July to September 2023	Quarterly	1000
October to December 2023	Quarterly	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Income generation through Beekeeping, income generation through Crop diversification	02

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

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	-
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	Sirmore ka pura	Ambah	30 KM
2	Karua	Morena	12 KM
3	Barbai	Porsa	50 KM
4	Bastoli	Kailarash	45 KM
5	Baroli	Joura	20 KM
6	Piparseva	Morena	30 KM
7	Singpura	Porsa	40 KM
8			

1. No. of farm families selected per village : 10

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	Spectrophotometer	01	Working
2	Electrical conductivity meter	01	Working
3	Flame photometer	01	Working
4	PH meter digital	01	Working
5	Macro block digestion System	01	Working
6	Electronic balance	01	Working
7	Double distillation unit with borosilicate boiled	01	Working
8	Mridaparikshak soil testing mini kit	01	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	10	-
Water Samples	-	-	-	-
Total	500	500	10	-

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
DRMR,Bharatpur,IARI New delhi ,CIAE and IISS,Bhopal	Technological Products, implements, Seed and Technical backstopping

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Training and Action plan	Technical

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Vegetable and spice extension	Technical guidance

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
Natural Farming		
January-March 2023	Trainings, awareness programme and sangoshti	08
April-June 2023	Trainings, awareness programme and sangoshti	08
July-Sept. 2023	FLD,Trainings, awareness programme and sangoshti	12
Oct.-Dec. 2023	FLD,Trainings, awareness programme and sangoshti	12
CBBO		
January-March 2023	Trainings, exposure visit and Kisan Mela	03
April-June 2023	Trainings, exposure visit	02
July-Sept. 2023	Trainings, exposure visit	02
Oct.-Dec. 2023	Trainings, exposure visit	02
Seed Hub		
Kharif 2023	Seed Production pigeon pea Variety Pusa-16	40 ha Production-200 q
Summer 2023	Green Gram	20 ha Production-110 q
ARYA		
1. Enterprise Name: Mushroom Production		
Sept. to Feb	Training of Mushroom production, marketing and value addition	03
Dec.	Workshop	01

Feb.	Exposure visit	01
2. Enterprise Name: Beekeeping		
Sept. to Feb	Training of Beekeeping and honey marketing	03
Dec.	Workshop	01
Feb.	Exposure visit	01
3. Enterprise Name: Poultry Farming		
July to Dec.	Training of Poultry farming	03
Jan.	Workshop	01
Feb.	Exposure visit	01

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1800 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Green Gram	Kharif	TJM-3, Virat, Samrat, Shikha, TJM 99-37, IPM 02-14, PDM-11, PDM-54, PDM-139, IPM 99-125	To be identified performance of varieties for high yielding, abiotic and biotic stress tolerant	1800
Black Gram		Indra Urd-1, PU-30, PU-35, PU-40, PU-31, Pratap Urd-1, Shekhar	To be identified performance of varieties for high yielding, abiotic and biotic stress tolerant	
Pearl millet		JBV-3, JBV-4, Sankar	To be identified performance of varieties for high yielding, abiotic and biotic stress tolerant	
Mustard	Rabi	Pitambar, RH-406, RH-725, RH-749, Varuna, NRCDR-2, RVM-1, RVM-2, RVM-3, Chinese Cabbag, NRCHB-101, NRCBS- 05-02, NC-1, JM-1, JM-2, JM-3, Rohini VSH 105, VSH 401, Pusa Bold	To be identified performance of varieties for high yielding, abiotic and biotic stress tolerant	1800
Wheat		HI1531, HI 1544, HI 8627, HI 8713, HI 8737, HI 8759, HI 8777, HD 2932, HD 2967, MP 1203, WH 1105	To be identified performance of varieties for high yielding, abiotic and biotic stress tolerant	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermi comopost unit	Vermi compost	200	1000q
Honey Processing unit	Honey	60	20q
Beekeeping Unit	20 box (Apis mellifera)	60	5q
Poultry Unit	Kadakhnath Adult birds+chicks	60	100 (No.)
Gaotry unit	Barbari breed (9+1)	100	20 (No.)
Dairy Unit	Gir breed	200	4000 (liter)
Mushroom Unit	Oyster mushroom (Fresh)	60	100 (kg)

KVK Neemuch

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr C P Pachauri	KVK Neemuch	9329468805	dr_pachauri@rediffmail.com

[illegible]

1.3 Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.1202
2	Under Demonstration Units	1.3
3	Under Crops	20.77
4	Orchard/Agro-forestry	0.6
5	Others (specify)	2.2
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	2016	497	55,00,000	na	na	na
2	Farmers Hostel	ICAR	2016	305	30,50,000	na	na	na
3	Staff Quarters (6)	ICAR	2016	400	40,00,000	na	na	na
4	Demonstration Units (2)	ICAR & VV	2018	13000	30,00,000	na	na	na
5	Fencing	-	-	-	-	na	na	na
6	Rain Water harvesting system	ICAR	2018	5000	8,00,000	na	na	na
7	Threshing floor	VV	2022	2500	1,50,000	na	na	na
8	Farm godown	ICAR	-	-	-	na	na	na

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2006	535000	-	write off
Motor Cycle 2	2010	52000	78000	running
Bolero(Jeep)	2021	800000	35000	running
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Photo copier	2008	25000	Not working
LCD Projector	2009	9000	Working
TV	2009	12000	Working
Video camera	2009	22000	Working
Computer & ptheriphasals	2009	150000	Working

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

Sl. No.	Tentative Date
1	09.05.2023
2	03.10.2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 5.2	Hot, moist, semi arid, ecological, sub region (5.2)

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

S. No.	Agro-climatic Zone	Characteristics
1	5.2	Madhya Pradesh plateau, western Malwa Plateau, Eastern Gujrat palins, Vindyan and satpura range and Narmada valley hot moist semiarid ESR with medium and deep clayey black soil (shallow black soils as inclusion) medium to high AWC and LGP 120-150 days

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

Strength	Weakness	Opportunities	Threats
AGRICULTURE			
1. District neemuch has the potential to grow a variety of agricultural crops. 2. Assured demand for various agricultural and horticultural crops in the neighboring districts.	1. Neemuch block falls in dark area Manasa and Jawad block falls in grey area as there is erratic rainfall and there is depletion in ground water tables. 2. Non availability of Quality seeds and planting material in the district. 3. Lack of awareness of improved agricultural practices and technical skill amongst farmers; 4. Inadequate and erratic power supply in the district pose problem in irrigation. 5. There is stagnation of yield in most of the crops. 6. Lack of human resources and government machinery for extension, training and capacity building of farmers. 7. Lack of infrastructure for storage, marketing and processing of crops; 8. Low seed replacement rate, leading to low productivity; 9. Non-availability of credit to farmers from formal credit system / banks	1. Adoption of modern irrigation system like sprinkler/drip 2. Promotion of mixed farming, Crop diversification to check low productivity. 3. Great potential for increasing productivity of major crops through incorporating technical training, better agricultural practices, HYV, nutrient management and increasing area under irrigation; 4. Soil reclamation and conservation techniques to check degradation of soil. 5. Scope for investment in agricultural marketing infrastructure and storage facilities;	1. Depleting ground water level and reducing water availability for irrigation purpose; 2. There is always possibility of crop failure as the district has scanty and erratic rainfall. 3. During the glut seasons there is reduction in the price of the produce. So farmers are in financial loss condition.
HORTICUTURE			
1. The district agroclimatic condition are suitable for growing horticultural and medicinal crops such as guava, orange, amla, pomegranate, ashwagandha, isabgol, lemon grass, opium etc. 2. Availability of technical human resources at Agricultural and horticultural departments. 3. District is also one of the largest producers of opium in the world	1. There is lack of availability of quality seedlings in the district for both horticultural and medicinal plants. The district do not have nursery for medicinal plant 2. Lack of proper quality lab and marketing facilities for medicinal crops 3. Lack of information and accessibility of various government support/subsidy schemes 4. There is lack of proper electricity facilities in the district. 5. Lack of awareness amongst farmers about improved agricultural practices, technical skill and economics of horticultural and medicinal plants and resistance to change the cropping pattern. 6. Lack of infrastructure for storage, marketing and processing of crops. There is no separate regulated markets for fresh fruits and vegetable in the District; 7. Non-availability of credit to farmers from Banks for installation of drip irrigation and other modern facilities	1. Huge potential for crop diversification by bringing area under horticultural crops. 2. Drip irrigation can be used for promoting horticultural crops in dry areas. 3. Increasing demand for fruits and vegetables in domestic markets;	1. Unpredictable weather conditions of the district. 2. Fluctuating market prices and glut in the market during the season.

	for Horticultural crops. 8. Lack of institutional support mechanism such as cooperatives / associations to support farmers in bringing technology, market information and market access.		

AH/Dairy/fisheries

1. Existence of milk marketing network through milk cooperatives. 2. Assured demand of AH products in urban centers like Delhi 3. Suitable climatic condition for cattle & goat rearing and poultry farming. 4. Artificial insemination infrastructure present in the district	1. The population in Neemuch district is vegetarian so the programmes for poultry development for layer and broiler even though taken up are on a limited scale 2. Dairy is underdeveloped in the district due to the absence of modern and scientific methods of animal husbandry and due to lack of proper training of the farmers in dairy activities. 3. Dominance of non-descript over the crossbred cattle population, impacting productivity and profitability of dairy and poultry sector. 4. Poor veterinary services and infrastructure in the district. Existing veterinary hospitals & dispensaries are in poor condition; 5. Non availability of Green Fodder is the major constraint for livestock development sector in the district. 6. Lack of organized markets and processing facilities for meat. 7. Poor connectivity of villages; 8. Lack of entrepreneurial approach to develop dairy and poultry in commercial manner.	1. Dairy has immense potential of being taken as a major economic activity in the district. 2. Improvement of breeds and livestock breeding programmes should be taken up on a massive scale. 3. Wide scope for increasing milk and meat production in the district through breed improvement and adequate extension services; 4. Increasing demand from urban customer for milk, milk products and meat; Animal Husbandry and Poultry has huge potential for employment creation in the rural areas;	1. Declining livestock population in the district; 2. Low investment capacity of farmers for taking-up dairy and poultry activities at commercial scale;

Fisheries

1. District has large number of ponds and huge area under water bodies; 2. Annual and seasonal rivers in the district provides good scope for fisheries; 3. Existing cooperative societies of fishermen in the district;	1. Lack of organized fish market in the district; 2. Non availability of Govt land for hatcheries and fish farms 3. Lack of technical staff and funds in the fisheries department 4. Lack of support infrastructure for extension, training, post-harvest management and marketing of fish in the district; 5. Lack of awareness and technical skill amongst fishermen;	1. Wide demand-supply gap of fish in the district 2. Untapped water-resources for Inland fishery activities; 3. Balanced feeding in ponds 4. Capacity building of farmers and field functionary. 5. Encouraging fish farmers for fish seed production to meet the requirement. 6. Education and training to farmers and human resource development technical staff of fisheries department.	1. Uneven and erratic rainfall, which may some time lead to natural disaster such as drought. 2. Fluctuating market prices and glut in the market during the season.

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	393.5
Forest	94.4
Waste Land	46.45

Particulars	Area “000 ha”
Other than cultivated area	37.19
Cultivable waste and alkaline land	19.27
Pastures	8.14
Bushes	0.01
Current Fallow	0.6
Other Fallow	0.7
Agricultural Land	186.84
Area Sown	186.84
Kharif	186.84
Rabi	93.42
Zaid	9.82
Cropping Intensity	155.27

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	2527.02
2	Well	51382.74
3	Tube well	26954.88
4	Ponds	3369.36
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Light soil		175722
2	Medium		87861
3	Heavy		29287

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	13447	1113600	8.43
2	Maize	1584	437300	27.60
3	Urid	246	20900	0.84
4	Gram	1543	223300	14.47
5	Mustard	1496	288100	19.25
6	Wheat	8869	3784400	42.66

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	20.6		
Feb, 22	0		
Mar, 22	11.3		
Apr, 22	0		
May, 22	0		
Jun, 22	35.3		
July, 2022	382		
Aug., 2022	582.3		
Sept., 2022	107		
Oct. 2022	107.3		
Nov. 2022	0		
Dec. 2022	0		

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	237000	805800 MT.	3.4 kg
Buffalo	172000	722400 MT.	4.2 kg
Sheep			
<i>Crossbred/ Indigenous</i>		-l	-
Goats	175000	2625000 MT	15 kg
Pigs Crossbred/ Indigenous	-	---	---
Rabbits			
Poultry			
Hens	40000	240,0000 Lakh eggs	60 eggs/ bird/yr
Turkey and others	-		
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	18.14 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	Neemuch	Neemuch	Hanumantiya Panwar Umaheda	Soybean, Maize, wheat, Mustard, chick pea, Corander	• Low productivity of crops. • Injudicious uses of chemical fertilizers • heavy infestation of weeds • Heavy infestation of insects, pests and diseases • High cost of cultivation • Lack of Awareness	• Injudicious uses of chemical fertilizers • Problem of termite attack on various crops • Low yield of Soybean due to heavy infestation of weeds • Low Productivity of Gram, Mustard, Nigella, Ajwain, Fenugreek and other medicinal and aeromatic crops due to Local variety • High cost of cultivation due to heavy use of fertilizer and chemical pesticides • Lack of Awareness about nutritious food • Poor intake of moringa in their regular diets • to inculcate knowledge on moringa & regular intake in their diets

Priority / Thrust areas

S. No.	Particulars
1.	Injudicious uses of chemical fertilizers
2.	Problem of termite attack on various crops
3	Low yield of Soybean due to heavy infestation of weeds

4	Low Productivity of Gram, Mustard, Nigella, Ajwain, Fenugreek and other medicinal and aeromatic crops due to Local variety
5	Heavy infestation of insects, pests and diseases in Soybean, Gram, Mustard, Coriander, fruits and vegetable crops etc
6	High cost of cultivation due to heavy use of fertilizer and chemical pesticides
7	- Lack of Awareness about nutritious food - Poor intake of moringa in their regular diets - to inculcate knowledge on moringa & regular intake in their diets
8	Lack of awareness regarding healthy food
9	Unemployment

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	153	13	232

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
76	1900	111	4000

Seed Production (Qtl.)	Planting material (Nos.)
200.0	140000

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	Injudicious uses of chemical fertilizers	Soybean, Maize, Chick pea, Nigell, Coriander, Ajwain	1. Low yield of Soybean about 30-40 % losses due to heavy infestation of weed (Area 120000 ha, Area affected 80%) 2. Injudicious uses of chemical fertilizers 3. Heavy Infestation of Pod borer in chick pea	1. Assessment of Agnistras for management of pod borer in Chick pea 2. Assessment of Neem seed extract to control Pod borer in Chick pea 3. Assessment of nutrient management in Wheat through Natural farming		• Importance of Soil Testing & right techniques of soil sample collection • Importance and implementation of Natural Farming • Importance of Bio fertilizers application in rabi Pulses • INM in Mustard • INM in Maize • INM in Irrigated & semi Irrigated Wheat • INM in Garlic • Importance of Natural Farming		• Kisan goshthi • Scientist visit to fiesl • Advisory field day • literature development • awareness programme etc	• Seed • Weedicides • Pesticides • Organic input •
2	Problem of termite attack on various crops	Soybean, Maize, Chick pea, Nigell, Coriander, Ajwain	4. Problem of termite attack in Chick pea	4. Assessment of Cow Urine (Gaumutra) as Seed treatment for termite control of Chick pea		• Termite & White Grub Control Measures		• Kisan goshthi • Scientist visit to fiesl • Advisory field day • literature development • awareness programme etc	
3	Low yield of Soybean due to	Soybean, Maize, Chick pea,	Low yield of Soybean about 30-40 % losses due to heavy infestation of weed (Area	5. Assessment of pre – emergence weedicide for weed management	• Demonstration of herbicide	• Weed Management in Soybean	• Advance techn	• Kisan goshthi • Scientist	

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.
	heavy infestation of weeds	Nigell, Coriander, Ajwain	120000 ha, Area affected 80%)	in Soybean	Diclosulum 84 WDG for Weed management in Soybean • Demonstration of Quizalofop Ethyl 5% EC for weed management in Garlic		iques of growing Kharif Crops • Advance techniques of growing Rabi Crops •	visit to fiesl • Advisory • field day • literature development awareness programme etc	
4	Low Productivity of Gram, Mustard, Nigella, Ajwain, Fenugreek and other medicinal and aeromatic crops due to Local variety	Soybean, Maize, Chick pea, Nigell, Coriander, Ajwain	Low Productivity of Chick pea, Nigell, Coriander, Ajwain due to Local variety	6. Assessment of varietal evaluation of Nigella , Soybean - Nigella cropping pattern 7. Assessment of varietal evaluation of Ajwain, Soybean - Ajwain cropping pattern 8. Assessment of varietal evaluation of Coriander, 9. Assessment of varietal evaluation of Chick pea	• Demonstration of improved variety of Fenugreek AF-5 • Demonstration of High yielding Soybean Variety Raj Soya-18	1. Improved cultivation techniques of Zaid vegetables 2. Improved cultivation of Zaid Urid & Moong 3. Nursery raising of Kharif vegetables 4. Improved cultivation practices of Soybean & Maize 5. Propagation techniques in fruit plants 6. Improved cultivation techniques of tomato & chilli 7. Improved cultivation techniques of seed spices 8. Nursery raising of	• Advance techniques in Mandarin Orchard •	• Kisan gosothi • Scientist visit to fiesl • Advisory • field day • literature development awareness programme etc	

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.
						Rabi vegetables 9. Fodder production in Rabi 10. Doubling the Farm Income through IFS 11. Improved cultivation techniques of Isabgol 12. Improved cultivation practices of Soybean & Maize 13. Improved cultivation techniques of Opium 14. Management in Guava orchard			
5	Heavy infestation of insects, pests and diseases in Soybean, Gram, Mustard, Coriander, fruits and vegetable crops etc	Chick pea, Nigell, Coriander, Ajwain	1. Low yield of Soybean abut 30-40 % losses due to heavy infestation of girdle beetle 2. Low yield of coriander seed due to heavy infection of Powdery Mildew	10. Assessment of fungicide for management of Powdery Mildew in Coriander 11. Assessment of insecticide management of girdle beetle in Soybean	- Demonstration of Chlorantrani liprole 18.5% SC against girdle beetle and semilooper of Soybean - Demonstration of Thiamethoxam 25% WG for aphids in Mustard Crop - Demonstration of Emamectin benzoate	- Insect pests Management in Opium - Safe grain storage - Pests Management in Spices Crops - IPM in Rabi crops - Pest Management in Rabi Vegetables - Pests Management in Gram - Insect Pests Management in Mustard - Rodent control in various crops - Insect pests management in Tomato & Chilli - Pests management in	- Insect Pest management in Kharif Crops - Insect Pest management in Rabi Crops - Advance technique of Garlic Cultivation	- Kisan gosothi - Scientist visit to fiesl - Advisory field day - literature development - awareness programme etc	

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.
					5% SG against pod borer in Chick pea	Kharif vegetables • Pest management in Soybean • Insects pests management in Cucurbits			
6	High cost of cultivation due to heavy use of fertilizer and chemical pesticides	Soybean, Maize, Chick pea, Nigell, Coriander, Ajwain	1. Heavy use of chemical fertilizers & pesticides which needs to reduced in order to increase the net profit of crops 2. Diarrhoea is common in goats	12. Assessing effective extension strategy for transfer of technology under natural farming in Chick pea crop 13. Assessing effective extension strategy for transfer of technology under natural farming in soybean crop 14. Assessment of treatment of diarrhoea by juice of Gurhal (Hibiscus rosasinensis) flower in goats	1. Demonstration of Jivamrit in Mustard crop	• Propagation techniques in fruit plants • Pit digging for plantation of mandarin and guava fruit plants • Importance of Bio fertilizers application in Kharif Pulses • Preparation of Bordeaux mixture & its method of application • Management of Mandarin Orchard • Water Management in Wheat • Control of Girdle Beetle in Soybean • Micro Irrigation system in mandarin and guava Orchard		• Kisan goshthi • Scientist visit to fiesl • Advisory field day • literature development awareness programme etc	
7	Lack of Awareness about nutritious food Poor intake		• Lack of Awareness about nutritious food • Lack of awareness regarding healthy food	16. Assessment of moringa leaf powder fortified in wheat flour for the improvement of nutritional status of farm women	• Demonstration of Nutritional Kitchen garden at backyard	• Value addition of seasonal fruits • Preservation of fruits & Vegetables • Importance of Soybean in Daily Diet		• Kisan goshthi • Scientist visit to fiesl • Advisory	

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.
	of moringa in their regular diets to inculcate knowledge on moringa & regular intake in their diets			17. Assessment of Amylase Rich Food (ARF's) in porridge among weaning infants (6 months-5 Years)		- Nutrition and health of vulnerable groups - Importance of Balance diet for women - Back yard Nutritional Kitchen Gardening		- field day - literature development awareness programme etc	
8	Lack of awareness regarding healthy food		Lack of awareness regarding healthy food	18. Assessment on Consumption of Biofortified Pearl Millet Crop Variety RHB - 234	- Demonstration on Consumption of Biofortified Wheat Variety (Pusa Tejas) - Demonstration of multi grain mix/laddu for increasing nutritional status of farm women	- Importance of Fruits & Vegetables in daily diet - Low cost balance diet for infants - Nutrient conservation during cooking - Child care & preparation of weaning mixtures	Cause & Prevention of anemia & Protein & energy malnutrition PEM	- Kisan goshthi - Scientist visit to field - Advisory - field day - literature development awareness programme etc	
9	Unemployment					- Market Intelligence - Preparation of compost through NADEP - Gender mainstreaming through SHGs - Preparation of vermi-	Income generation through preparation of	- Kisan goshthi - Scientist visit to field - Advisory - field day - literature	

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.
						compost • Programme Planning for integrated farming • Information on PMFBY • Information regarding Central & State Govt. Rural Dev. Schemes • Training on Leadership Development • Importance of ICT tools in Agriculture Development	vermin compost •	development awareness programme etc	
10	Lack of awareness of technology				• Impact Study of Cluster Frontline Demonstration of Oilseeds (Soybean) Technology • Impact Study of Cluster Frontline Demonstration of Pulse (Chick pea) Technology		• PRA Techniques		

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
Weed management	-	Soybean	-	-	-	-	-	-	-	1
Natural farming	Wheat	Soybean	chick pea Chick pea	-	-	-	-	-	-	4
Varietal E	-	-	Chick pea	Nigella, Ajwain, Coriander	-	-	-	-	-	4
IPM	-	Soybean	chick pea	-	-	-	-	-	-	2
IDM	-	-	-	Coriander	-	-	-	-	-	1
ITK	-	-	Chick pea	-	-	-	-	-	-	1
Value addition	pearl millet	-	-	-	-	Moringa	-	-	-	2
TOTAL	2	3	5	4	-	1	0	0	0	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
ITK	-	-	-	Gurhal	-	-	-	1
TOTAL				1				1

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of pre – emergence weedicide Sulfentrazone + Clomazone 50% EC for weed management in Soybean	
Problem diagnosed	Low yield of Soybean about 30-40 % losses due to heavy infestation of weed (Area 120000 ha, Area affected 80%)	
Farmers' Practices	Local Practice (Imazethapyr 1000 ml/ha)	
Details of technologies selected for assessment	T ₂	Use of pre-emergence weedicide Pendimethalin 38.7% CS @ 1750 ml/ ha
	T ₃	Use of pre – emergence weedicide Sulfentrazone + Clomazone 50% EC @ 1250 ml / ha
Source of technology	DSR, Indore (2020)	
Plot size	3500 Sq m	
No. of farmers	07	
Total cost	2500/-	
Critical input	Weedicides	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of weeds / sq m, Yield q/ha, B:C Ratio	

OFT-2

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of nutrient management in wheat through natural farming	
Problem diagnosed	Injudicious uses of chemical fertilizers (Area 40000 ha, Area affected 80%)	
Farmers' Practices	T1 - Local Practice (Use of Chemicals)	
Details of technologies selected for assessment	T ₂	Use of Beejamrut + Jeevamrut (3 times)
	T ₃	Use of Beejamrut + Jeevamrut (3 times) + Ghanjeevamrut
Source of technology	Gurukul, Kurukshetra (2020)	
Plot size	3500 sq m	

No. of farmers	07
Total cost	1000/-
Critical input	Beejamrut, Jivamrut, Ghanjeevamrut
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No of effective tillers, Yield q/ha, B:C ratio

OFT-3

Crop / Enterprise	Chick pea
Title of on farm trial	Assessment of varietal evaluation of Chick pea,
Problem diagnosed	Low Productivity of Chick pea due to Local variety (Area 40000 ha. & affected area 60%)
Farmers' Practices	T1 -Use of Old Variety of Chick pea
Details of technologies selectedfor assessment	T2 - Use of Improved Variety of Chick pea RVG - 202 T3 - Use of Improved Variety of Chick pea RVG - 204
Source of technology	RVSKVV , Gwalior 2021
Plot size	3500 sq m
No. of farmers	07
Total cost	5000/-
Critical input	Improved Seed
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No of Pods per plant, Yield, B:C Ratio

OFT-4

Crop / Enterprise	Chick pea
Title of on farm trial	Assessment of Cow Urine (Gaumutra) as Seed treatment for termite control of Chick pea
Problem diagnosed	Problem of termite attack in Chick pea (Area 40000 ha, Area affected 25%)
Farmers' Practices	T1 – Farmer Practice (NO Seed treatment)
Details of technologies selectedfor assessment	T2 - The seed is treated with Gaumutra, which is collected in a big utensil. The treated seed is dried under shade, and then the sowing has to be done. It is being followed form last three generations
Source of technology	IITKA Doc -2 (inventory of indigenous technical knowledge in Agriculture Pg No 127 Code no 21
Plot size	5200 sq m
No. of farmers	13
Total cost	500/-
Critical input	, Gaumutra
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No. of affected Plants/ sq m , Yield q/ha

OFT-5

Crop / Enterprise	Nigella
Title of on farm trial	Assessment of varietal evaluation of Nigella , Soybean - Nigella cropping pattern.
Problem diagnosed	Low Productivity of Nigella due to old variety (Area 4000 ha. & affected area 100%)
Farmers' Practices	T1 -Use of Local Variety of Nigella
Details of technologies selectedfor assessment	T2 - Use of Improved Variety of Nigella AN-1 T3 - Use of Improved Variety of Nigella AN-20
Source of technology	NRCSS , Ajmer 2014
Plot size	3500 sq m

No. of farmers	07
Total cost	2000/-
Critical input	Improved Seed
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Yield (kg./ha), B:C Ratio

OFT-6

Crop / Enterprise	Ajwain
Title of on farm trial	Assessment of varietal evaluation of Ajwain, Soybean - Ajwain cropping pattern.
Problem diagnosed	Low Productivity of Ajwain due to Local variety (Area 3000 ha. & affected area 90%)
Farmers' Practices	T1 - Use of Local Variety of Ajwain
Details of technologies selected for assessment	T2 - Use of Improved Variety of Ajwain AA-1
	T3 - Use of Improved Variety of Ajwain AA-2
Source of technology	NRCSS , Ajmer 2015
Plot size	3500 sq m
No. of farmers	07
Total cost	2000/-
Critical input	Improved seed
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Yield (kg./ha), B:C Ratio

OFT-7

Crop / Enterprise	Coriander
Title of on farm trial	Assessment of varietal evaluation of Coriander,
Problem diagnosed	Low Productivity of Coriander due to Local variety (Area 15000 ha. & affected area 70%)
Farmers' Practices	T1 – Use of Local variety of coriander
Details of technologies selected for assessment	T2 - Use of Improved Variety of Coriander ACr-1
	T3 - Use of Improved Variety of Coriander ACr-2
Source of technology	NRCSS , Ajmer 2018
Plot size	3500 sq m
No. of farmers	07
Total cost	2000/-
Critical input	Improved seed
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Yield (kg./ha), B:C Ratio

OFT-8

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Thiacloprid 21.7 % SC for management of girdle beetle in Soybean
Problem diagnosed	Low yield of Soybean about 30-40 % losses due to heavy infestation of girdle beetle (Area 120000 ha, Area affected 80%)
Farmers' Practices	T1: Profenophos 50% EC @ 1.5 lit /ha at 30 days after sowing
Details of technologies selected for assessment	T2: Chlorantraniliprole 18.5 % SC @ 150 ml/ha at 35 DAS
	T3: Thiacloprid 21.7 % SC @ 750ml/ha at 35 DAS
Source of technology	CIB 2016
Plot size	3500 sq m
No. of farmers	07

Total cost	2000/-
Critical input	Insecticides
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	% infested plants, Yield, BC ratio

OFT-9

Crop / Enterprise	Coriander
Title of on farm trial	Assessment of Propiconazole 25 % E.C. for management of Powdery Mildew in Coriander
Problem diagnosed	Low yield of coriander seed due to heavy infection of Powdery Mildew (Area 15000 ha. & affected area 80%)
Farmers' Practices	T1 - Sulphur 80 % WP @ 2 kg/ha at 45 DAS
Details of technologies selectedfor assessment	T2 - Tebuconazole 25.9 EC@ 750 ml /ha at 30 & 45 DAS T3 - 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	3500 sq m
No. of farmers	07
Total cost	2000/-
Critical input	Fungicides
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	No of Plant affected/ sq m,Yield, BC ratio

OFT-10

Crop / Enterprise	Chick pea
Title of on farm trial	Assessment of Agnistra for management of pod borer in Chick pea
Problem diagnosed	Losses about 15-20 % due to heavy infestation of pod borer in chick pea crop, (Area 40000 ha, Area affected 80%)
Farmers' Practices	T1 - Use of Profenofos 50% EC @ 1250ml/ha
Details of technologies selectedfor assessment	T2 - Use of HaNPV @ 250 LE/ha (at incidence of insect pest) T3 - Use of 3% Agnistra at incidence of pod borer (need based application)
Source of technology	NCOF, Gaziabad
Plot size	3500 sq m
No. of farmers	07
Total cost	1000/-
Critical input	HaNPV & Agnistra
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	No. of pods affected, Yield , BC ratio

OFT-11

Crop / Enterprise	Chick pea
Title of on farm trial	Assessment of Neem seed extract to control Pod borer in chick pea
Problem diagnosed	Heavy Infestation of Pod borer in chick pea (Area 40000 ha, Area affected 80%)
Farmers' Practices	T1 – Local Practice (chemical control)
Details of technologies selectedfor assessment	T2 - Dried 5 kg neem seeds are powdered and 10 liter water is added and kept overnight. The extract is filtered and 90 litres of water is added to get 5% neem seed extract. About 200 g washing powder is added with the extract for sticking and spreading of the extract on the leaves.
Source of technology	IITKA Doc -2 (inventory of indigenous technical knowledge in Agriculture Pg No 128, Code no

	1815
Plot size	3500 sq m
No. of farmers	13
Total cost	1000/-
Critical input	Neem Seed extract
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	No. of damaged pods / plant, Yield , BC ratio

Information about Extension OFT 1 :

Title	Assessing effective extension strategy for transfer of technology under natural farming in soybean crop
Season & Year	Kharif
Problem identified	Heavy use of chemical fertilizers & pesticides which needs to reduced in order to increase the net profit of crops
Thematic Area	Natural Farming
Farming situation	Rainfed
Name of Technology Intervention under study	T2-Technology transfer through trainings and field visits. T3-Technology transfer through FLDs
Farmers Practice	T1-Informal method of technology diffusion like through neighbors, input dealers etc.
No. of replication (Farmers)	20

Results / findings

Performance indicators/ parameters	Unit/ details
Gain in knowledge, retention of knowledge, change in attitude, skill and adoption of technology	

Information about Extension OFT 2 :

Title	Assessing effective extension strategy for transfer of technology under natural farming in Chick pea crop
Season & Year	Rabi
Problem identified	There is a heavy use of chemical fertilizers & pesticides which needs to reduced in order to increase the net profit of crops
Thematic Area	Natural Farming
Farming situation	Irrigated
Name of Technology Intervention under study	T2-Technology transfer through trainings and field visits T3-Technology transfer through FLDs
Farmers Practice	T1-Informal method of technology diffusion like through neighbors, input dealers etc
No. of replication (Farmers)	20

Results / findings

Performance indicators/ parameters	Unit/ details
Gain in knowledge, retention of knowledge, change in attitude, skill and adoption of technology	

Information about Extension OFT 3 :

Title	Assessment of treatment of diarrhoea by juice of Gurhal (Hibiscus rosasinensis) flower in goats
Season & Year	Round the year
Problem identified	Diarrhoea is common in goats
Thematic Area	ITK (Animal Science)
Farming situation	Rainfed
Name of Technology Intervention under study	T2 - Juice of gurhal flowers (2-3 flowers) is orally administered twice a day for 3 days.

Farmers Practice	T1 - Local Practice
No. of replication (Farmers)	05

Results / findings

Performance indicators/ parameters	Unit/ details
Frequency and duration in diarrhoea reduction	-

Information about Home Science OFT 1:

Title of on-farm trial:	Assessment of moringa leaf powder fortified in wheat flour for the improvement of nutritional status of farm women
Year/Season:	Kharif 2023
Problem diagnosis:	Lack of Awareness about nutritious food
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	03
No. of farmers/farm women involved	07
Type of	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Only wheat flour
T2 –Recommended Practice-	T2- wheat+ soy flour (9:1) T3 - wheat+ soy flour (9:1) + moringa leaf powder
Source of technology:	P. Kumari & Md. Mustafa, The Pharma Innovation J. 2022; SP-11(11): 247-250 (2022)
Characteristics of technology:	Wheat flour and soy flour was mixed in the ratio of 9:1 fortified with 5 gm moringa leaf powder in daily routine diet till 180 days, so that the protein and micronutrients are available from all the different sources of food item consumed during the whole day. Thus 315 gm Wheat + 35gm. Soybean + 05 gm Moringa Powder were provided per day per person till 180 days as per ICMR-NIN recommended grains for a person per day.
Name of Crop/Enterprises:	fortified wheat flour with moringa leaf powder
Farming situation:	Rainfed
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 Amylase Rich Food (ARF's) in porridge among weaning infants (0-5 Years)
Year/Season:	Kharif 2023
Problem diagnosis:	Lack of awareness regarding healthy food
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	03
No. of farmers/farm women involved	07
Type of	Assessment

Details of technology selected for assessment:	
T1 – Farmers Practice-	Consumption of porridge prepared from local wheat var.
T2 –Recommended Practice-	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)
Characteristics of technology:	ARF is germinated cereal flour, extremely rich in the enzyme alpha-amylase. The alpha-amylase cleaves the long carbohydrate chains in the cereal flour into shorter dextrins. Just half a flat teaspoon of any ARF can reduce even a very high total solid concentration of 45g, made up of 25g flour, 15g sweetener & 5g oil cooked in 100ml of water to a soupy consistency. This remarkable property makes it possible to offer the weaning child a low viscosity yet high energy dense preparation.
Name of Crop/Enterprises:	durum wheat + ARF powder prepared from mung
Farming situation:	Rainfed
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 on Consumption of Biofortified Pearl Millet Crop Variety RHB - 234
Year/Season:	Kharif 2023
Problem diagnosis:	Lack of awareness regarding healthy food
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	03
No. of farmers/farm women involved	07
Type of	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Non- Consumption of Pearl Millet
T2 –Recommended Practice-	T2 - Consumption of Pearl Millet Crop T3 - Consumption of Biofortified Pearl Millet Crop Variety RHB - 234
Source of technology:	ICAR (2017)
Characteristics of technology:	Rich in iron (84.0 ppm) and zinc (46.0 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: 70.0 q/ha • Maturity: 81 days
Name of Crop/Enterprises:	Pearl Millet
Farming situation:	Rainfed
Date of sowing:	July 2023
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	Weed management	Demonstration of herbicide Diclosulum 84 WDG for Weed management in Soybean	weedicide	kharif 2023	5.0	12	weeds per Square meter (number) ,Yield (kg./ha), BC ratio
2	Soybean	Varietal	Demonstration of High yielding Variety Raj Soya-18 of Soybean	Improved Seed	kharif 2023	5.0	12	no. of pods/plant, yield (kg./ha), BC ratio
3	Mustard	Natural Farming	Demonstration of Jivamrut in mustard crop	Jivamrut	Rabi 2023	5.0	12	No. of siliqua / plant, Yield (kg./ha), BC Ratio
4	Onion	Weed management	Demonstration of herbicide Propaquizafop 5%+ Oxyflurofen 12% EC for Weed management in kharif Onion	Weedicide	kharif 2023	5.0	12	Weeds per Sq. meter (number), Yield (kg./ha), BC ratio
5	Fenugreek	Varietal	Demonstration of improved variety of Fenugreek AF-5	seed	Rabi 2023	5.0	12	No. of pods per plant, Yield (kg/ha), BC ratio
6	Garlic	Weed management	Demonstration of Quizalofop Ethyl 5% EC for weed management in Garlic	weedicide	Rabi 2023	5.0	12	Weeds per Sq. meter (number), yield (Kg/ha), BC ratio
7	Soybean	IPM	Demonstration of Chlorantraniliprole 18.5% SC against girdle beetle and semilooper of Soybean	insecticide	kharif 2023	5.0	12	no. of plant affected, yield (kg./ha), BC Ratio
8	Mustard	IPM	Demonstration of Thiamethoxam 25% WG for aphids in Mustard Crop	Insecticide	Rabi 2023	5.0	12	No. of aphids per 10 cm twig, Yield (kg/ha), BC Ratio
9	Chick pea	IPM	Demonstration of Emamectin benzoate 5% SG against pod borer in Chick pea	Insecticide	Rabi 2023	5.0	12	No. of pods per plant, Yield (kg/ha)
10	Kitchen garden	Nutrition Security	Demonstration of Nutritional Kitchen garden at backyard	Seed kit (12 varieties)	Round year 2023	5.0	12	Vegetables availability – no of days /yr

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
								Vegetable yield / harvest /day Amount saved from the garden General health condition & Nutrition knowledge of women before & after FLD Per capita consumption and availability of nutrients
11	Wheat	Value Addition	Demonstration on Consumption of Biofortified Wheat Crop Variety (Pusa Tejas)	Bio-fortified Wheat Crop (Pusa Tejas)	Rabi 2023	5.0	12	Per capita consumption (gm/day), availability of zinc and iron content

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	14	Kharif & Rabi	-
2	Farmers Training	-	-	-
3	Media coverage	4	Kharif & Rabi	-
4	Training for extension functionaries	-	-	-

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 **NIL**

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

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

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Multi grain mix/ laddu	Cereals, nutri millets and Pulses	12	12	Roasted whole wheat flour, roasted Rajgira, roasted horse gram and Roasted fenugreek	Sensory Evaluation ,Consumer preference, Shelf life, Per capita consumption and availability of nutrients	-	-
Impact study	Soybean	50	-	Interview schedule	Technology Gap will be measured as Potential Yield Demonstration Yield. Extension Gap will be measured as Demonstration Yield Farmers" Yield. Extension Index (%) will be measured as (Technology Gap÷ Extension Gap) x 100	-	-
Impact study	Chick pea	50	-	Interview schedule	Technology Gap will be measured as Potential Yield Demonstration Yield. Extension Gap will be measured as Demonstration Yield Farmers" Yield. Extension Index (%) will be measured as (Technology Gap÷ Extension Gap) x 100	-	-

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	VE	Improved Seed with full package	Seed	Kharif 2023	20.0	50	Yield, BC ratio
2	Mustard	VE	Improved Seed with full package	Seed	Rabi 2023	20.0	50	Yield, BC ratio
3	Chick pea	VE	Improved Seed with full package	Seed	Rabi 2023	20.0	50	Yield, BC ratio

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	Kharif, Rabi	-
2	Farmers Training	06	Kharif, Rabi	150
3	Media coverage	03	Kharif, Rabi	-
4	Training for extension functionaries	-	-	-

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
Management										
Feed management										
Production of quality animal products										
Total	1	7								
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	2								
Design and development of low/minimum cost diet	1	2								
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Value addition	1	2								
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies	1	2								
Women and child care										
Total	4	8								
VI Agril. Engineering										
Total										
VII Plant Protection										
Integrated Pest Management	5	10								
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Total	5	10								
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	1	2								

B) OFF Campus

[illegible]

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	On	Importance of Bio fertilizers application in Kharif Pulses	2							
July	On	Weed Management in Soybean	2							
Horticulture										
MAY	ON	Micro Irrigation system in Orchard	2							
MAY	ON	Propagation techniques in fruit plants	2							
JUNE	ON	Preparation of Bordeaux mixture & its method of application	2							
SEPTEMBER	ON	Nursery raising of Rabi vegetables	2							
Livestock production										
Home Science										
MAY	ON	Back yard Nutritional Kitchen Gardening	2							
JUNE	ON	Low cost balance diet for infants	2							
SEPTEMBE R	ON	Drudgery reduction in Maize	2							
JANUARY	ON	Value	2							

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	
		of Natural Farming								
Oct		Fodder production in Rabi	2							
Oct		INM in Mustard	2							
Nov		INM in Irrigated & semi Irrigated Wheat	2							
Dec		Water Management in Wheat	2							
Horticulture										
APRIL	OFF	Pit digging for plantation of fruit plants	2							
JUNE	OFF	Improved cultivation techniques of tomato & chilli	2							
JULY	OFF	Management of Mandarin Orchard	2							
AUGUST	OFF	Improved cultivation techniques of seed spices	2							
OCTOBER	OFF	INM in Garlic	2							
OCTOBER	OFF	Improved cultivation techniques of Isabgol	2							
NOVEMBER	OFF	Improved cultivation techniques of Opium	2							
DECEMBER	OFF	Management in Guava orchard	2							
JANUARY	OFF	Improved cultivation techniques of Zaid	2							

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	
		vegetables								
MARCH	OFF	Nursery raising of Kharif vegetables	2							
Livestock production		Nil								
Home Science										
APRIL	OFF	Child care & preparation of weaning mixtures	2							
MAY	OFF	Nutrition and health of vulnerable groups	2							
AUGUST	OFF	Importance of Balance diet for women	2							
OCTOBER	OFF	Nutrient conservation during cooking	2							
JANUARY	OFF	Importance of Fruits & Vegetables in daily diet	2							
FEBRUARY	OFF	Safe grain storage	2							
FEBRUARY	OFF	Preservation of fruits & Vegetables	2							
MARCH	OFF	Gender mainstreaming through SHGs	2							
Plant Protection										
JUNE	OFF	Termite & White Grub Control Measures	2							
JULY	OFF	Control of Girdle Beetle in Soybean	2							

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	OFF	Pests management in Kharif vegetables	2							
NOVEMBER	OFF	IPM in Rabi crops	2							
NOVEMBER	OFF	Pest Management in Rabi Vegetables	2							
DECEMBER	OFF	Pests Management in Spices Crops	2							
JANUARY	OFF	Insect pests Management in Opium	2							
MARCH	OFF	Insects pests management in Cucurbits	2							
Agriculture Extension (Capacity Building and Group Dynamics)										
APRIL	OFF	Importance of Soil Testing & right techniques of soil sample collection	2							
MAY	OFF	Importance of Organic Farming	2							
MAY	OFF	Programme Planning for integrated farming	2							
JUNE	OFF	Information on National Crop Insurance Scheme	2							
JULY	OFF	Information regarding Central & State Govt. Rural Dev.	2							

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	
		Schemes								
SEPTEMBER	OFF	Concept of SHGs & its advantages in livelihood enhancement	2							
OCTOBER	OFF	Concept & Formation of Seed Bank	2							
JANUARY	OFF	Soil & Water Conservation & its Advantages	2							
MARCH	OFF	Market Intelligence	2							
Soil Science										
March		Preparation of compost through NADEP	2							
April		Preparation of vermi-compost	2							
Sep		Importance of Bio fertilizers application in rabi Pulses	2							

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										
-	RY	Income generation through value addition of seasonal fruits								
Livestock production		NIL								
Home Science	RY	Income generation through -								

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	
		nursery raising for tomato & Cole crops								
Plant Protection										
		Bee Keeping								
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
-	RY	Income generation through preparation of Vermi- compost								

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										
	I/s	Advance techniques of growing kharif crops								
	I/s	Advance techniques of growing Rabi crops								
Horticulture										
	I/s	Advance techniques in Mandarin orchard								
	I/s	Advance techniques of Garlic cultivation								
Livestock production										
Home Science										
	I/s	Causes & prevention of anemia & Protein & Energy Malnutrition (PEM)								

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Method Demonstrations	2									
Farmers Seminar	-									
Workshop	-									
Group meetings	3									
Lectures delivered as resource persons	12									
Newspaper coverage	-									
Radio talks	-									
TV talks	-									
Popular articles	-									
Extension Literature	2									
Advisory Services	-									
Scientific visit to farmers field	12									
Farmers visit to KVK	-									
Diagnostic visits	5									
Exposure visits	-									
Ex-trainees Sammelan	-									
Soil health Camp	2									
Animal Health Camp	-									
Agri mobile clinic	-									
Soil test campaigns	1									
Farm Science Club Conveners meet	-									
Self Help Group Conveners meetings	-									
Mahila Mandals Conveners meetings	-									
Celebration of important days (specify)	6									
Others (pl. specify)	-									
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
OILSEEDS	Soybean	Soybean (Raj Soya – 18)	130 q
PULSES	Chick pea	Chick Pea (RVG – 204)	70 q

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
Chilli	80000		
Tomato	25000		
Brinjal	10000		
Cauliflower	10000		
Cabbage	10000		
Drumstick	500		

FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOFERTILIZERS				
1	Vermicompost	-		300 qt
2	NADEP	-		

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	03 cow 03 calf	gir	900 ltr milk	
SHEEP AND GOAT	MKTY	(Sirohi)	15 goats	
POULTRY	IFS	(kadaknath & Pratapdhan)	100 chicks 100 chicks	
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published KVK News Letter

Date of start	Periodicity	Number of copies to be published
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	CD	-	-

Success stories/Case studies identified for development as a case: **06**

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, line dept, ex trainees, interface
2	Rural Youth	line dept, ex trainees, interface
3	In-service personnel	line dept, interface
4	methodology for identifying OFTs/FLDs	AES, Method demonstration
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	Hanumantiya Panwar	Neemuch	25
2	Umakheda	Neemuch	22

1. No. of farm families selected per village : 50
2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: Nil

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mrida Parikshak	02	working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	150	150	02	-
Water Samples	nil	-	-	-
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture Dept, ATMA, Horticulture, Veterinary, WCD,	Convergence, technical guidance, Training, visits, exchange of technology & material
DSR, Indore, DRMR, Bharatpur, NRCSS, Ajmer, DWR, Jabalpur	exchange of technology, technical guidance & material

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Interface	convergence, Technical Guidance
Training	Technical Guidance
Mela	Technical Guidance
Diagnostic visit	Technical Guidance
FFS	Technical Guidance
Exhibition	Technical Guidance

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Training	convergence, Technical Guidance
Mela	
Exhibition	

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes - Swachhta Action Plan(SAP) 2022-23

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan – Dec 2023	- Digitization of office records/ e-office, - Basic maintenance - Sanitation and SWM - Cleaning and beautification of surrounding areas - No. of adopted villages (For Microbial based Agricultural Waste Management using Vermicomposting) - No of activities under Vermicomposting/Composting of biodegradable waste management & other activities on generate of wealth for waste - Used water for agriculture/ horticulture application - Swachhta Awareness at local level - Swachhta Workshops - Swachhta Pledge - Display and Banner - Foster healthy competition - Involvement of print and electronic media - Involving and with the help of the farmers, farm women and village youth in their adopted villages (no of adopted villages)	600-700

Project ARYA (Attracting and Retaining Youth in Agriculture) 2023

Month	Activity details	Targeted Beneficiaries
June 2023	One week certified Training on Value Addition in Seed Spices	50
July 2023	One week certified Training on Protected cultivation Tomato and Chilli	50
August 2023	One week certified Training on Goatry	50
Sept – Dec.2023	Farmer Scientist Interaction, kisan goshtthi and Feedback	150

Farmers Outreach Programme on Natural Farming 2023

Month	Activity details	Targeted Beneficiaries	Targeted Area / Coverage
Jan – Dec.2023	Workshop organized	30	-
	Training Programmes organized	120	-

Cluster Frontline Demonstration (CFLD) 2023

Month	Activity details	Targeted Beneficiaries	Targeted Area / Coverage
Kharif 2023	Training Programmes and Field Day on CFLD (Oilseed) - soybean	50	20 ha
Rabi 2023	Training Programmes and Field Day on CFLD (Oilseed) - mustard	50	20 ha
	Training Programmes and Field Day on CFLD (Pulse) - Gram	50	20 ha

Planning for Crop Cafeteria 2023

Total Area of Crop cafeteria: 4000 Sq m

Season	Crop	Variety	Variety	Variety	Particulars /details	Area (Sq m)
Kharif	Soybean	Raj Soya -18	NRC- 86	JS-2029	-	10 sq m for each variety
		JS- 9560	JS-2034	RVS - 2001-4	-	
		Raj Soya-24	JS-2098	JS -2069	-	
		JS-2094			-	
	Black gram	AK-321	PU-35	RVU-30	-	
		JU-3	JU-86	LBG 20	-	
	Moong	JM-721	Vishal	Ganga 8	-	
		JM-3	HUM 1		-	
	Maize	HQPM-1	JM-16	JM-12	-	
		JM-8	DKC-9133		-	
	Pigeon pea	TJT 501	JKM 7	Asha	-	
		JKM 189			-	
	Groundnut	N-30	GJG - 32	GJG - 22	-	
		Barielly	Girnar - 2		-	

Rabi

Season	Crop	Variety	Variety	Variety	Particulars /details	Area (Sq m)
Rabi	Chick pea	RVG 204	JG 226	RVG 202	-	10 sq m for each variety
		JAKI 9218	JG – 16	RVG 203	-	
	Mustard	Radhika	RH-749	Brijraj	-	
		IJ - 31	NRCHB-102	NRCHB-101	-	
	Wheat	Pusa Tejas	GW 366	HI 1634	-	
		WB 02	Pusa Mangal 8713	DW 47	-	

		HD 4728	MPO 1256	HI 1634	-	
	Lentil	KM-1	IPL -316	L- 4727	-	
	Linseed	KVA – 3	P – 2	RLC - 167	-	

Planning for Crop Cafeteria 2023 - Spice Crops/Medicinal Crops

Season	Crop	Variety	Variety	Particulars /details	Area (Sq m)
Spice	Garlic	G - 50	G - 282	G- 323	10 sq m for each variety
	Fenugreek	AFG2	AFG 3	AFG 5	
	Coriander	Acr1	Acr2	AGCr1	
	Fennal	AF1	AF2	AF3	
	Nigella	AN1	AN20	G 44	
	Ajwain	AA1	AA2	AA93	
Medicinal	Ashwagandha	JA 20	JA 134	Simpushti	
	Vajradanti				
	Kalmegh				
	Aelovera				
	Tulsi				
Fodder crop	Napier	IGFRI 10	CO - 01		
	Lucerne	Anand 1			
	Barseem	Pusa Gaint			
	Juwar	MP Chari			
	Cactus	thronless			

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost Unit	RKVV other	25.0 10 poly bed	300.0 qtl
Dairy	03 cow 03 calf	200.0	900 ltr milk
Poultry	IFS (kadaknath & Pratapdhan)	150.0	100 chicks 100 chicks

Goatry	MKTY (Sirohi)	200.0	15
Azola Unit	-	10.0	40.0 kg
Polyhouse	RKVY	500	300.0 kg tomato 50000 Seedling
Shednet House	RKVY	500	300.0 kg tomato 50000 Seedling
Minimal Processing Unit	-	100	5 qt Spices processing
Rainwater Harvesting Structure	-	5000	irrigation done in 3.0 ha area
Mrida Parikshak	02 Nos	-	150 sample per year

ANNUAL ACTION PLAN 2023

KVK Rajgarh MP

Year of sanction 2023-24

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Rupendra Khandwe	-	9826685106	rkhandwe@rediffmail.com kvk.rajgarh@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Rupendra Khandwe	Principal Scientist	Sr. Scientist & Head	193800	17.01.1985	07.06.2013	9826685106	rkhandwe@rediffmail.com	
2	Subject Matter Specialist	Dr. Shalini Chakravarti	Senior Scientist	Scientist (Subject)	147900	16.04.2007	16.04.2019	7869878765	shalini17576@gmail.com	
3	Subject Matter Specialist	Dr. Lal Singh	Scientist (Horticulture)	Scientist (Subject)	95300	05.02.2007	05.02.2017	9926315545	lalsingh_sagar@rediffmail.com	
4	Subject Matter Specialist	Dr. Bhagwan Kumrawat	Scientist (Soil Science)	Scientist (Subject)	98200	26.03.2007	26.03.2017	9407275707	bhagwankumrawat@yahoo.co.in	
5	Subject Matter Specialist	Dr. A.K. Mishra	Scientist (PB & Genetics)	Scientist (Subject)	92600	18.01.1985	27.01.2011	8770848575	anil1961.mishra@gmail.com	
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	
8	Programme Assistant	Shri M.P. Nayak	Programme Assistant	Programme Assistant (Subject)	60400	01.03.2011	01.03.2020	9826635707	kvk.rajgarh@rvskvv.net	
9	Computer Programmer / Programme Assistant	-	-	-	-	-	-	-	-	
10	Farm Manager	-	-	-	-	-	-	-	-	
11	Assistant	-	-	-	-	-	-	-	-	
12	Jr. Stenographer / Comp. Operator	-	-	-	-	-	-	-	-	
13	Driver	-	-	-	-	-	-	-	-	
14	Driver	Shri Gajanan Malviya Driver	Driver cum mechanic	Driver cum mechanic	32200	12.03.2003	15.07.2015	9827067015	kvk.rajgarh@rvskvv.net	
15	Supporting staff	Shri Yogendra Kosre	Driver cum mechanic	Driver cum mechanic	22000	09.07.2018	09.07.2018	9993135874	kvk.rajgarh@rvskvv.net	
16	Supporting staff	Mo. Zameel Khan TSL	TSL	Peon	29700	27.01.1994	27.01.2011	7566405631	kvk.rajgarh@rvskvv.net	

1.3 Total land with KVK (in ha) 14.67 ha.

S. No.	Item	Area (ha)
1	Under Buildings	0.67
2	Under Demonstration Units	1.0
3	Under Crops	9.0
4	Orchard/Agro-forestry	4.0
5	Others (specify)	0
Total		14.67

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	656.7	20.67	1997	400	-
2	Farmers Hostel	ICAR	1998	305.0	11.84	1997	200	-
3	Staff Quarters (6)	ICAR	2006	100	14.00	2005	100	-
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	2004	2.78	24832	Working
Motor Cycle 2	2015	0.50	7320	Working
Bolero(Jeep)	2012	6.80	223600	Write-off in 2022-23
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.) Lakh	Present status
LCD projector	2006	1.0	Working
PA System	1998	0.5	Working
Overhead projector	1995	1.0	Not-working
Smart TV (Thomson)	2020	0.35	Working

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

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

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1	Soil type is red skeletal, graveled mix, light black soil & medium black soil deficient in organic matter with tremendous erosion capacity. Blocks covered area vise Rajgarh 60%,30% and 5% respectively, Khilchipur 70%,30% and 0% respectively and Biaora 20%,70% and 10% respectively
2	AES – 2	Soil type is light black soil in block Zerapur, Rajgarh and biaora comprise 70 %.
3	AES – 3	Heavy to medium black soil are found in Narsinghpur and Sarangpur blocks of the district

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

S. No.	Agro-climatic Zone	Characteristics				
1	Average rainfall	1100 mm				
2	Temperature	Maximum 43 °C				
3		Minimum 4 °C				
4	Soil Type	Medium Black Soil type				
5	Total Population	<table><tr><td>1254085 (2011)</td></tr><tr><td>Male – 649106</td></tr><tr><td>Female – 604979</td></tr><tr><td>Total – 1254085</td></tr></table>	1254085 (2011)	Male – 649106	Female – 604979	Total – 1254085
1254085 (2011)						
Male – 649106						
Female – 604979						
Total – 1254085						
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	616300
Forest	17636
Waste Land	6209
Other than cultivated area	29950
Cultivable waste and alkaline land	6260
Pastures	-
Bushes	-
Current Fallow	-
Other Fallow	-
Agricultural Land	-
Area Sown	427983
Kharif	467000
Rabi	325000
Zaid	-
Cropping Intensity	-

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5775
2	Well	3986
3	Tube well	12950
4	Ponds	36236
5	Others	17880

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Medium black soil	Rajgarh, khilchipur,zeerapur	32%
2	Heavy Black Soil	Sarangpur, Narsingarh, Biora	35%
3	Gravels/Skeletal red soil with low Water retention and higher erosion	Rajgarh, khilchipur, zeerapur (include LORWAR AREA about 73000 ha)	33 %

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Soybean	310211	982	
2	Maize	50423	1725	
3	Sorghum	33357	1380	
4	Kharif Pulses	12012	767	
5	Sesame	893	638	
6	Wheat	65309	2764	
7	Gram / Lentil	80300	1160	
8	Mustard	40230	1200	
9	Citrus	17351	13600	
10	Gooseberry	1495	5210	
11	Papaya	526	10200	
12	Guava	407	9865	
13	Custard Apple	216	8698	
14	Onion	2835	11800	
15	Garlic	2189	9500	
16	Chillie	2185	600	
17	Coriander	48560	1250	
18	Ginger	154	11000	

19	Potato	2713	12750	
20	Cucurbits	689	9000	
21	Crucifers	2815	14500	
22	Pea	1380	4000	

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	-	41.1	21.9
Feb, 22	-	41.8	30.0
Mar, 22	-	39.1	21.1
Apr, 22	-	23.9	20.7
May, 22	-	30.6	19.8
Jun, 22	154.00	33.5	20.2
July, 2022	458.00	33.3	15.3
Aug., 2022	564.00	30.8	9.5
Sept., 2022	373.00	28.2	6.4
Oct. 2022	190.00	24.9	6.0
Nov. 2022	-	30.5	6.4
Dec. 2022	-	38.0	14.5
	1739.00		

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	182773	Milk = 1,62,000 lt/day	
Buffalo	199075	 MT.	 kg
Sheep			
Crossbred/ Indigenous	17767	 MT wool	 kg
Goats	165121	 MT	 kg
Pigs Crossbred/ Indigenous	13806	---	---
Rabbits	37		
Poultry			
Hens	1,51,611	Eggs=6.8 Lakhs	4.46 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	50398	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	Rajgarh	Rajgarh	Chatukheda	Soybean, Maize, Sorghum, wheat, gram, lentil, coriander, garlic, onion, Animal Husbandry	Indigenous Seed, Imbalance fertilization un-judicious use of insecticide, unemployment, lack of knowledge of drudgery reduction implements & tools	Introduction of new varieties Balance use of fertilizer Employment generation Introduction of crossbred animals
			Banskheda			
		Narsingharh	Balchidi			
		Jeerapur	Jalampura			
		Khilchipur	Guradiya			
		Sarangpur	Unchkheda			
		Biaora				

Priority / Thrust areas

S. No.	Particulars
1.	Early maturing & stress tolerant varieties of major crops
2.	Technologies of crop cultivation & protection during dry spell condition in kharif
3	Production & utilization of farm waste for organic manuring to improve soil health
4	Crop diversification
5	Entrepreneurship development among the rural youth
6	Drudgery reduction in farm women
7	Breed improvement in livestock
8	Feasible soil and water conservation techniques & NRM

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

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	90	18	180

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
26	3000	20	3000

Seed Production (Qtl.)	Planting material (Nos.)
200	1000

B. Abstract of interventions to be undertaken

[illegible]

Technologies to be assessed

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

[illegible]

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

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

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT -1

Crop/Enterprise	Soybean (Kharif , 2023)
Title of on-farm trial	Assessment of Organic nutrient management in Soybean

Problem diagnosed	Low yield due to poor soil health
Farming situation	Rainfed
Production system and thematic area	Organic Farming
Farmers' practices	T1- NPKSZn- 20:60:20:20:5 kg/ha
Details of technologies selected for assessment/refinement Treatments	T2- Organic 100% - 2t vermicompost + Consortium 2 Ltr/ha T3- Natural farming- Application of JIWAMARIT @ 500 ltr/ha.21 days interval
Source of technology	IISS/RVSKVV 2011
No. of farmers	10
Area of each trial	0.4 ha
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	Vermicompost, Consortium
Performance indicators Observation to be recorded	No. of Pods/plant, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
Cost of input	5000/ ha.
Total cost	24500/ ha

OFT -2

Crop/Enterprise	Maize (Kharif , 2023)
Title of on-farm trial	Assessment of Zero budget Natural farming in Maize
Problem diagnosed	High production cost due to chemical fertilizer
Farming situation	Rainfed
Production system and thematic area	Natural Farming
Farmers' practices	T1- Application of chemical fertilizer as basal dose NPK-80:40:30
Details of technologies selected for assessment/refinement Treatments	T2-Organic 100% - 5t vermicompost + Consortium 2 Ltr/ha T-3 Seed Treatment with beejaamrit, Application of Ghan Jeewamrit@1000Kg/ha in two equal Split on the day of sowing and at 30 DAS thoroughly mixed to soil through intercultural, Mulching with crop residues @ 5 t/ha. After inter culture and soil drenching of cow urine (50%) + Jiwaamrit (100%) - 5 times @ 500 l/ha. At every 21 Days interval from 21 to 105 Days crop stage
Source of technology	UASD 2022
No. of farmers	10
Area of each trial	0.4 ha
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	Jiwamrit, Bijamrit, Ghanjiwamrit, Cow urine
Performance indicators Observation to be recorded	Cobs/ Plant, Grain yield, C:B Ration
Cost of input	5000/ ha.
Total cost	10000/ ha

OFT -3

Crop/Enterprise	Onion (Rabi 2023-24)
Title of on-farm trial	Assessment of Organic nutrient management in Onion

Problem diagnosed	Low yield due to poor soil health
Farming situation	Irrigated
Production system and thematic area	Organic Farming
Farmers' practices	T1- NPKS- 100:60:60:40 Kg/ha
Details of technologies selected for assessment/refinement Treatments	T2- NPK 50% (50:30:30) + 5t vermicompost
	T3- Organic 100% - 10t vermicompost + Consortium 2 l/ha.
Source of technology	RVSKVV 2011
No. of farmers	10
Area of each trial	0.4 ha
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	vermicompost , Consortium
Performance indicators Observation to be recorded	Bulb size, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
Cost of input	10500/ ha.
Total cost	35000/ ha

OFT -4

Crop/Enterprise	bio decomposer (Rabi 2023-24)
Title of on-farm trial	Assessment of bio decomposer for farm waste decomposition
Problem diagnosed	Farm waste requires longer period of decomposition
Farming situation	Rainfed
Production system and thematic area	Organic Farming
Farmers' practices	T1- Open pit
Details of technologies selected for assessment/refinement Treatments	T2- Bio decomposer @ 200 ltr/tonne farm waste at 7 days interval
	T3- Natural farming- Application of JIWAMRIT @ 200 ltr/tonne farm waste at 7 days interval
Source of technology	JNKVV 2018
No. of farmers	10
Area of each trial	-
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	Waste Decomposer
Performance indicators Observation to be recorded	Decomposition duration (Days), Decomposition (%) production of compost (qt/year)
Cost of input	500/ Farmer
Total cost	1000/ Farmer

OFT -5

Crop/Enterprise	Tomato (Kharif 2023)
Title of on-farm trial	Assessment of Integrated pest management of Tomato
Problem diagnosed	Low yield due to insect
Farming situation	Irrigated
Production system and thematic area	HOV
Farmers' practices	T1- Use of insecticide
Details of technologies selected for assessment/refinement Treatments	T2- Use of neem khali 250 kg/ha. + 2 spray neem extract (1500 ppm) + feromane trap (5 No./ha.) + Yellow strip board (20 No./ha.)
	T3- Spray of thiomithaxam 18.5 EC + Fungicide Chlorotheloni 2 gm/ltr. + Sulphur 2 gm/ltr Of water
Source of technology	IARI 2011
No. of farmers	10
Area of each trial	2.0
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Quality of fruit, Economics, No of fruit per plant, yield qt/ha., BC Ratio
Cost of input	
Total cost	

OFT -6

Crop/Enterprise	Chilli (Kharif 2023)
Title of on-farm trial	Assessment of improved variety with control of flowering drop in chilli
Problem diagnosed	Low yield due to local variety and no use of PGR
Farming situation	Irrigated
Production system and thematic area	IV
Farmers' practices	T1- Local
Details of technologies selected for assessment/refinement Treatments	T2- Solan Bharpur + NAA @ 25 ppm
	T3- Solan Bharpur+ NAA @ 50 ppm
Source of technology	IIVR 2018 & Solan HP 2018
No. of farmers	10
Area of each trial	2.0
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	No. of branches/Plant, No. of fruit/plant , yield q/ha, Cost of cultivation, B:C ratio
Cost of input	
Total cost	

OFT -7

Crop/Enterprise	Coriander (Rabi 2023-24)
Title of on-farm trial	Assessment of Improved variety of Coriander
Problem diagnosed	Low yield due to local variety & stem gall disease resistant
Farming situation	Irrigated
Production system and thematic area	IV
Farmers' practices	T1- Local
Details of technologies selected for assessment/refinement Treatments	T2- Ajmer Dhaniya 2 + Seed Treatment (Tricoderma @ 5gm/kg seed + PSB & Azetobactor
	T3- RCr 436 + Seed Treatment (Tricoderma @ 5gm/kg seed + PSB & Azetobactor
Source of technology	ICAR - NRC of seed spices, Ajmer 2012
No. of farmers	10
Area of each trial	0.4
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	No. of branches/Plant, No. of ambles /plant , yield q/ha, Cost of cultivation, economics and B:C ratio
Cost of input	
Total cost	

OFT -8

Crop/Enterprise	Garlic (Rabi 2023-24)
Title of on-farm trial	Assessment of Integrated disease management in Garlic
Problem diagnosed	Low yield due to high infestation of purple blotch
Farming situation	Irrigated
Production system and thematic area	IDM
Farmers' practices	T1 : use of insecticide
Details of technologies selected for assessment/refinement Treatments	T2- Use of neem khali 250 kg/ha. + spray of trichoderma 5 ml/ltr + Yellow strip board (20 No./ha.)
	T3 : - Spray of imedacloprd .5 ml/ltr. + Fungicide Tebuconazole @ 2 gm/ltr of water + Sulphur @ 2 gm/ltr of water
Source of technology	NRC of Onion & Garlic Puna MH 2011
No. of farmers	10
Area of each trial	0.4
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	No. of branches/Plant, yield q/ha, Cost of cultivation, economics and B:C ratio
Cost of input	
Total cost	

OFT -9

Crop/Enterprise	Green Gram (Kharif 2023)
Title of on-farm trial	Assessment of Improved Varieties of Green Gram .
Problem diagnosed	Low yield, non availability of synchronous variety , non availability of YMV resistant
Farming situation	Rainfed, Medium rainfall medium black soil with proper drainage system
Production system and thematic area	IV
Farmers' practices	T1- Pusa Besakhi
Details of technologies selected for assessment/refinement Treatments	T2- Virat
	T3- Shikha
Source of technology	IPRI 2016
No. of farmers	10
Area of each trial	2.0
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Yield, Net return, B:C ratio, Farmers reaction
Cost of input	
Total cost	

OFT -10

Crop/Enterprise	Soybean (Kharif 2023)
Title of on-farm trial	Assessment of Improved Varieties of Soybean Variety RVS 24
Problem diagnosed	Low yield, non availability of YMV resistant & non availability of early medium variety
Farming situation	Rainfed, Medium rainfall medium black soil with proper drainage system
Production system and thematic area	IV
Farmers' practices	T1- JS 9560
Details of technologies selected for assessment/refinement Treatments	T2- JS 2034
	T3- RVS 18
Source of technology	RVSKVV, 2017
No. of farmers	10
Area of each trial	2.0
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Yield, Net return, B:C ratio, Farmers reaction
Cost of input	
Total cost	

OFT -11

Crop/Enterprise	Mustard (Rabi 2023-24)
Title of on-farm trial	Assessment of improved variety of Mustard
Problem diagnosed	Low yield due to lac of improved variety
Farming situation	Irrigated
Production system and thematic area	IV
Farmers' practices	T1- Jawahar mustard – 2
Details of technologies selected for assessment/refinement Treatments	T2- RH 749
	T3- PM 31
Source of technology	IARI Pusa 2014
No. of farmers	10
Area of each trial	2.0
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	No. of branches/Plant, No. of Siliqua /plant , yield q/ha, Cost of cultivation, economics and B:C ratio
Cost of input	
Total cost	

OFT -12

Crop/Enterprise	Wheat (Rabi 2023-24)
Title of on-farm trial	Assessment of improve variety of Wheat crop.
Problem diagnosed	Low yield due to lac of high yielding variety & technology.
Farming situation	Irrigated
Production system and thematic area	IV
Farmers' practices	T1-Farmer practices (Lok -1)
Details of technologies selected for assessment/refinement Treatments	T2-Pusa Anmol (HI 8737)
	T3-Pusa Tejas (HI 8759)
Source of technology	IARI, 2010
No. of farmers	10
Area of each trial	0.4
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Yield, Net return, B:C ratio, Farmers reaction
Cost of input	
Total cost	

OFT -13

Crop/Enterprise	Soybean (Kharif 2023)
Title of on-farm trial	Assessment of insecticides for stem fly management in soybean
Problem diagnosed	Low productivity due to infestation of stem fly in soybean
Farming situation	Rainfed, Medium rainfall medium black soil with proper drainage system
Production system and thematic area	Insect pest management
Farmers' practices	T-1 Profenophos 40% @ 1000 ml ai/ha at 18 DAS
Details of technologies selected for assessment/refinement Treatments	T-2 Foliar spray of Lembacyhalothrin 4.9 SC @ 300 g/ha at 25 DAS
	T3- Foliar spray of Lembacyhalothrin 9.6 + thiomethoxam 12.6 @ 125 ml/ha at 25 DAS
Source of technology	IISR 2016
No. of farmers	10
Area of each trial	2.0
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Yield, Net return, B:C ratio, Farmers reaction
Cost of input	
Total cost	

OFT -14

Crop/Enterprise	Wheat (Rabi 2023-24)
Title of on-farm trial	Assessment of insecticides for root aphid management in wheat
Problem diagnosed	Mortality due to infestation of root aphid in wheat
Farming situation	Irrigated
Production system and thematic area	Insect pest management
Farmers' practices	T1- Chlorpyrphos 20% @ 2000 ml /ha at 18 DAS
Details of technologies selected for assessment/refinement Treatments	T2- Foliar spray of imidacloprid 17.8 @ 150 ml/ha at 25 DAS
	T3- Foliar spray of thiomethoxam @ 375 g/ha at 25 DAS
Source of technology	NRCW 2016
No. of farmers	10
Area of each trial	0.4
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Yield, Net return, B:C ratio, Farmers reaction
Cost of input	
Total cost	

OFT -15

Crop/Enterprise	Tulsi (Kharif 2023)
Title of on-farm trial	Assessment of medicinal crop Tulsi (<i>Ocimum basilicum</i>)
Problem diagnosed	Less net return of kharif crops
Farming situation	Rainfed, Medium rainfall medium black soil with proper drainage system
Production system and thematic area	Crop diversification
Farmers' practices	T1- Soybean - Wheat
Details of technologies selected for assessment/refinement Treatments	T-2 Tulsi – Mung/Okra
Source of technology	JNKVV 2012
No. of farmers	10
Area of each trial	2.0
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Yield, Net return, B:C ratio, Farmers reaction
Cost of input	
Total cost	

OFT -16

Crop/Enterprise	Kalonji (Rabi 2023-24)
Title of on-farm trial	Assessment of medicinal crop Kalonji (<i>Nigella sativa</i>)
Problem diagnosed	Low net return from rabi crops wheat/gram
Farming situation	Irrigated
Production system and thematic area	Crop diversification
Farmers' practices	T-1 Soybean - Wheat
Details of technologies selected for assessment/refinement Treatments	T2- Soybean - Kalonji
Source of technology	JNKVV 2014
No. of farmers	10
Area of each trial	0.4
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Yield, Net return, B:C ratio, Farmers reaction
Cost of input	
Total cost	

OFT -17

Crop/Enterprise	Sorghum (Kharif 2023)
Title of on-farm trial	Assessment of Value added products of Sorghum for income generation
Problem diagnosed	Lack of awareness about processing techniques/Low income generation
Farming situation	Assessment
Production system and thematic area	Income generation
Farmers' practices	T1 : Use of Sorghum (Traditional use in the form of flour)
Details of technologies selected for assessment/refinement Treatments	T2 : - Use of Processing Techniques for developing value added products
Source of technology	IIFPT, 2021
No. of farmers	10
Area of each trial	
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Production per unit , Average Cost of input (Rs/unit, Average Gross Return (Rs/unit), Average Net Return (Rs/unit) , Benefit-Cost Ratio (Gross Return / Gross Cost)
Cost of input	-
Total cost	-

OFT -18

Crop/Enterprise	(Kharif 2023)
Title of on-farm trial	Assessment of Prevalence of Anemia Among rural adolescent girls
Problem diagnosed	1)Low iron content in diet 2) Use of traditional diet 3) Lack of knowledge about nutritional foods 4) Prevelence of infectious diseases 5) Poor socio-economic condition
Farming situation	Rainfed
Production system and thematic area	Nutritional security
Farmers' practices	Traditional practice - existing dietary pattern
Details of technologies selected for assessment/refinement Treatments	iron tablet / day with existing dietary pattern
	Recommended practice - iron tablet / day + 50 gm roasted Soybean + 100 gm Rice flakes / day with existing dietary pattern
Source of technology	KVK Junagadh (2013)
No. of farmers	10
Area of each trial	
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	1 Body weight 2 Measure Hb Lebel before and after three months practices 3 Occurrence of disease if any
Cost of input	
Total cost	

OFT -19

Crop/Enterprise	Maize Sheller (Rabi 2023-24)
Title of on-farm trial	Assessment of tubuler Maize sheller
Problem diagnosed	High Drudgery & reduced work efficiency
Farming situation	Rained
Production system and thematic area	WOE/DR
Farmers' practices	T1 Manual Shelling of maize
Details of technologies selected for assessment/refinement Treatments	T2 : Shelling by tubular maize sheller
Source of technology	CIAE 2007
No. of farmers	10
Area of each trial	
No of trial	10
No. of animals (if animals are part of OFT)	-

Critical input	-
Performance indicators Observation to be recorded	Output, working efficiency, reduction in drudgery, Cardiac Cost of Work, Farmer reaction & Feed back
Cost of input	
Total cost	

OFT -20

Crop/Enterprise	Fruit Harvester (Rabi 2023-24)
Title of on-farm trial	Assessment of Manually Operatead Fruit Harvester
Problem diagnosed	High Drudgery low work efficiency
Farming situation	Irrigated
Production system and thematic area	WOE/DR
Farmers' practices	T1 : Picking of fruit by climbing on the trees
Details of technologies selected for assessment/refinement Treatments	T2 : - Fruit harvester
Source of technology	Dr. BSKKV, 2011
No. of farmers	10
Area of each trial	-
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	-
Performance indicators Observation to be recorded	Output, working efficiency, reduction in drudgery, Cardiac Cost of Work, Farmer reaction & Feed back
Cost of input	
Total cost	

Detailed Information about OFT:

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

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

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

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	SFM	Target Yield- 20 q/ha, FN-5.19T - 0.48 SN, FP2O5- 5.2 T – 4.1 SP, FK2O- 3.9 T - 0.22 SK NPKSZn-30:60:20:20:5	NPKSZn-30:60:20:20:5	Kharif 2023	2.0	10	Demonstration - Pods/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
2	Maize	INM	120:60:40 NPK + seed treatment with Consortium 2 Ltr/ha.	NPK	Kharif 2023	2.0	10	Demonstration - Cobs/Plants, Plant height, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
3	Soybean	Crop Production	Foliar application of NPK 19:19:19 @ 2 % at Pod filling stage	NPK	Kharif 2023	2.0	10	Demonstration - Seed index, yield qt/ha and BC Ratio
4	Wheat	INM	Target Yield- 50 q/ha FN-4.40T - 0.40 SN, FP2O5-4.00T – 4.58 SP, FK2O-2.53T - 0.16 SKNPKZn-120:60:40:5	K&Zn	Rabi 2023-24			Demonstration - Nodules /plant, Pods/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
5	Mandarin	ICM	* First spray GA3 10 PPM + Urea 1 % at the Time of flowering * Secound Spray 2,4-D 15 PPM + Carbandazim 1000 PPM + urea 1 % are month after fruit set when the fruit size reaches pea size 8-10 mm * Third spray GA3 10 PPM + KN03 1% two month after fruit set fruit size 18-20 mm	GA3, Urea, 24D, Carbandazim	Kharif 2023			Demonstration - No of fruits/plant, yield qt/ha and BC ratio
6	Ginger	IV	Demonstration on improved variety of Ginger With Seed treatment (Trico derma @ 5gm/kg Rhizome seed)	Rhizome seed, Trico derma	Kharif 2023			Demonstration - Economics, yield qt/ha, and BC Ratio
7	Coriander	IV	Ajmer dhaniya – 2 + Seed treatment (Tricoderma 5 gm/kg seed) + Sulphur @ 20 kg/ha.	Tricoderma 5 gm/kg seed) + Sulphur @ 20 kg/ha	Rabi-2023-24	5	10	Demonstration - No. Branches/plants, Umbels/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
8	Garlic	ICM	NAA @ 1ml /litre and GA 3 @1.5ml /litre of water	NAA	Rabi-2023-24	5	10	Demonstration - No. of cloves, size of cloves, yield qt/ha and self life
9	Bengal Gram	WOE	Losses of seed & grain during storage (30 %)	Moisture percent, weight of 100 grains2. Storage losses (%)3. Net Income4. B:C Ratio	Kharif 2023	0.1	10	Assessment of grain pro Super bag for Storage of Bengal Gram for Women
10	Nursery portray	WOE	Nursery raising in Pro tray filled with mixture of coco pits:Soil:FYM in the ratio of 1:1:2		Kharif 2023	0.1	10	Demonstration - Mortality, Output, farmers reaction and feedback
11	Kitchen Garden	Nutritional security	Backyard Nutrition Kitchen Garden		Kharif 2023 &	0.1	10	Demonstration - farmers reaction and feedback

					Rabi 2023-24			
12	Soybean	IV	IV- RVS 24 + Seed treatment with Carbendazim + Mencozeb + rhizobium, PSB +RDF+A. Molybdate + Swing on R & F with N.P.K.S. 20:50:20:20 on STV based kg./ha + Imazathypar @500 ml. At 20 DAS	NPK	Kharif 2023	2	10	Demonstration - Pods/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
13	Black Gram	IV	IV- RBU 38 seed + Seed treatment with Carbendazim + Mencozeb + rhizobium, PSB +RDF+A. Molybdate + Swing on R & F with N.P.K.S. 20:50:20:20 on STV based kg./ha + Imazathypar @500 ml. At 20 DAS+ Chlroentra niliprol @ 100 ml / ha.	NPK	Kharif 2023	2	10	Demonstration - Pods/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
14	Wheat	IV	Yield- 60 q/ha NPKZn-120:60:40:5	NPKzn	Rabi 2023-24	2	10	Demonstration - Tillers/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
15	Gram	IV	Yield- 20 q/ha, Seed Treatment RDF (20:60:20 NPK kg/ha)	NPK	Rabi 2023-24	2	10	Demonstration - No. of Pods/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
16	Urd	IV	IV- PU 35 seed + Seed treatment with Carbendazim + Mencozeb + rhizobium, PSB +RDF+A. Molybdate + Swing on R & F with N.P.K.S. 20:50:20:20 on STV based kg./ha + Imazathypar @500 ml. At 20 DAS+ Chlroentra niliprol @ 100 ml / ha.	NPK	Rabi 2023-24	2	10	Demonstration - Nodules /plant, Pods/Plants, Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
17	Chandrasur		Chandrasur		Rabi 2023-24	2	10	Demonstration - Yield (q/ha), Net income (Rs.), Farmer Reaction & Farmer feed back
18	Wheat	Weed management	T2-Sulphosulfuron 75% + Matsulfuron Methyl 5% WG @ 30+2g a.i /ha at 30 DAS		Rabi 2023-24	2	10	Demonstration - Yield q/ha., No. of tiller/plant , B.C. ratio, No.of weeds/sqmt.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12		700
2	Farmers Training	20		500
3	Media coverage	24		MASS
4	Training for extension functionaries	4		100

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

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

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
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Black Gram	IV	IV+Rh+PSM+Tricho+Vermi		2022-23	25	50	
2	Lentil	IV	RVL 31			20	50	
3	Soybean	IV	JS 2034			25	50	

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4		426
2	Farmers Training	20		140
3	Media coverage	5		2000
4	Training for extension functionaries	20		1500

A) ON Campus

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
cultivation technology											
Group Dynamics and farmers organization	1	1	1	1	12	-	12	8	-	8	20
Capacity building for ICT application											
Livestock feed and fodder production											
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)	1	1	1	1	12	-	12	8	-	8	20
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	1	1	27	-	27	5	-	5	32	
Resource Conservation Technologies										
Cropping Systems	4	4	98	7	105	18	2	20	125	
Crop Diversification										
Integrated Farming										
Water management	1	1	26	-	26	2	-	2	28	
Seed production	3	3	148	15	163	50	6	56	211	
Nursery management										
Integrated Crop Management										
Fodder production										
Production of organic inputs	1	1	18	-	18	8	-	8	26	
Total										
II Horticulture										
a) Vegetable Crops										
Nursery raising	1	1	19	3	22	3	-	3	25	
Export potential vegetables										
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Cultivation of Fruit	1	2	-	13	13	-	12	12	25	
Management of	2	3	-	54	54	-	27	27	81	

1. On Campus

[illegible]

2. Off Campus

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	15	145	35	180	5	1	6	150	36	186
Kisan Mela	1	150	62	212	20	40	70	170	102	272
Kisan Ghosthi	6	70	45	115	4	1	5	74	46	120
Exhibition	2	650	205	855	20	5	25	670	210	880
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	10	115	55	170	15	-	15	130	55	185
Farmers Seminar	4	210	140	350	14	-	14	224	140	364
Workshop	4	135	55	190	18	2	20	153	57	210
Group meetings	6	95	17	112	6	-	6	101	17	118
Lectures delivered as resource persons	30	416	108	524	-	-	-	416	108	524
Newspaper coverage	22	Mass	Mass	Mass			Mass	Mass	Mass	Mass
Radio talks	-	-								
TV talks	-	-								
Popular articles	10	Mass	Mass	Mass			Mass	Mass	Mass	Mass
Extension Literature	6	Mass	Mass	Mass			Mass	Mass	Mass	Mass
Advisory Services	9	mass	Mass	Mass			Mass	Mass	Mass	Mass
Scientific visit to farmers field	41	595	185	780				595	185	780
Farmers visit to KVK	15	595	295	890				595	295	890
Diagnostic visits	25	255	65	320				255	65	320
Exposure visits	-									
Ex-trainees Sammelan	1	30	7	37				30	7	37
Soil health Camp	2	255	145	400				255	145	400
Animal Health Camp	2	195	55	250				195	55	250
Agri mobile clinic	-	-								
Soil test campaigns	2	58	45	103				58	45	103
Farm Science Club Conveners meet	1	18	12	30	2	-	2	20	12	32
Self Help Group Conveners meetings	2	26	27	53	-	2	2	26	29	55
Mahila Mandals Conveners meetings	1	-	15	15	-	2	2	-	17	17
Celebration of important days (specify)	4	98	57	155	5	3	8	103	60	163
Others (pl. specify)										
Total	241	4546	1695	6241	134	56	200	4680	1751	6431

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HI 1531	250 q
OILSEEDS	Soybean	RVS2001-4	300 qt
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)	Ornamental crops	Madhukamni, Chandni, Cliandra, Ashok, Sudarshan etc.	

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Custarad apple		1000
	Jack fruit		500
SPICES	Lemon		500
	Guava		500
	Jamun		500
VEGETABLES	Madhukamani		200
	Ratrani		200
	Ashok		500
	Chandni		200
	Sudhrshan		50
FOREST SPECIES	Mogra		100
	Aloe-vera		2000
	Lemon gross		5000
ORNAMENTAL CROPS	Palma-rosa		500
	Bamboo		100
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	8 bed	5	1000 qt
2	NADEP			

3				
BIO PESTICIDES				
1	Dasparni arkl	1		500 ltr
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
Dairy animals	Cow	3		
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
NIL	NIL	NIL

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Radio talks		4
2	TV talks		4
3	Newspaper coverage		12
4	Internet (Youtube)		2
5	Social media (Whats App, Facebook, Instagram, Twitter etc.)		4

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	Guradiya	Khilchipur	30
2	Unchakheda	Rajgarh	30
3	Balkhedi	Biaora	40
4	Mundali	Narsingarh	60

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

Status of establishment of Lab : Established

List of equipments purchased:

Sl. No	Name of the Equipment	Qty.	Cost
1	Spectronic-20 D	01	98800
2	Flame Photo meter	01	36850
3	Digital electronic conductivity metre	01	7517
4	Physical balance	01	37800
5	Chemical balance	01	
6	Refrigerator LG 310 Ltr	01	18000
7	Hot air oven with indicator & timer	01	20000
8	Hot Plate	01	3134
9	Grinder willey type	01	29526
10	Shaker	01	
11	Stirrer	01	
12	Digital Ph metre	01	3604
13	Demineralizer	01	30680
14	Micro Kjeldhal digestion unit	01	13104
15	Micro Kjeldhal distillation unit	02	7200
16	Automatic Nitrogen analyser	01	112613
17	Stabilizer 10 KB	01	29484
18	UPS 1 KB	01	5000
19	Inverter power light	01	32000
Total		20	498000

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	20	
Water Samples	-	-	-	
Total	1000	1000	20	

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
1. College of Agriculture Sehore	Participating in meeting, Technical guidance, Joint diagnostic Survey.
2. Department of Agriculture	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
3. National Water Shed	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
4. Department of Horticulture	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
5. Department of Vet. & AH	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
6. Women & child Development Department	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
7. M.P. Seed Crop	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
8. IFFCO	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
9. Jila Panchayat	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
10. Janpad Panchayat	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
11. DPIP	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration
12. BAIF	Joint implementation, Participation in meeting conducting training programme, Joint diagnostic Survey, demonstration

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Training - 6	Participation in meetings

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage	Targeted Area/Coverage
April – June	Natural Farming Training	300	300 acr

July - September	Preparation & Application of Jiwamrit, Nimastra, Agniastra	300	300 acr
October- December	Preparation & Application of Jiwamrit, Nimastra, Agniastra	300	300 acr
January- March	Field Day/ Sangosthi	300	300 acr

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 720 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif 2023	RVS2001-4, RVS2002-4, JS335, JS9560, JS2034, JS2098, JS2069, RVS-18, RVS-24, RVS-76	-	120
Green Gram	Kharif 2023	TJM-3, IPM 205-, IPM 140-3	-	36
Black Gram	Kharif 2023	PU-1, PU-31, IPU 2-43, TU 49-2, Indra urad-1	-	60
Pigon pea	Kharif 2023	JA-4, TJT-501, ICPH-2671,JA-3, ICPL-87, ICPH-2671, JA-3, ICPL-87339, PUSA ARHAR-16	-	108
Sowing method	Kharif 2023	Green Gram, Black Gram & Soybean A. Flat bed (FB) B. Ridge and furrow bed (RFB) C. Borad bed furrow (BBF)	-	36
Tomato	Kharif 2023	Kashi vishes, Kashi Aman, Arka Rakshak, Abhilash	-	48
Merigold	Kharif 2023	Afrikan Merigold, Pusa Narangi, Pusa Basanti, Arikan gaint double yellow	-	60
Ginger	Kharif 2023	Suprabha,	-	12
Turmeric	Kharif 2023	Roma, Rashmi,	-	12

Crop	Season	Variety	Particulars /details	Area (Sq m)
Wheat	Rabi 2023-24	HI- 8627, HI- 8638, HI- 1531, JW-3173, HI-1500, HI-1454, GW-322, GW-366, RVW4106, MP-3382, JW-3020	-	132
Gram	Rabi 2023-24	RVG201, RVG202, RVG203, RVG204, RVG205, RVKG101(Kabuli), JG-412, KAK-2, JG-16, JG-226, Vishal	-	120
Mustard	Rabi 2023-24	Pusa Agrani, Pusa bold, Rohani, JM-2, VSL-5, RVM-2, PM 27 Pusa Tarak, Pusa Jagannath	-	108
Lentil	Rabi 2023-24	JL-3, RVL11-6	-	24

Fenugreek	Rabi 2023-24	RVSF-1, RMT-1	-	24
Kasuri Methi	Rabi 2023-24	RVSKM-1	-	12
Coriander	Rabi 2023-24	Ajmer Dhaniya-1, Ajmer Dhaniya-2, Khumbhraj Dhani , Khumbhraj dhana, CS-6	-	60
Patato	Rabi 2023-24	Chipsona-1, Chipsona-2, Khufri Himalini	-	36
Garlic		G 282, G41, Amretha	-	24

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy	4 Cow	1000	Milk 1800 ltr, Dung, Urine
Vermicompost	8 bed	32	1000 q.
Natural Farming Product unit	Jivamrit, Ghanjivamrit, Nimastra, Agniastra	10 drum	2000 ltr., 500 kg 250 ltr, 250 ltr
Fruit Production	Lemon, Orange, Guava, Custard apple	0.25 ha., 1.0 ha. 1.0 ha, 1.0 ha	
Nursury	Seedling, Sapling,	0.1 ha	

ANNUAL ACTION PLAN 2023

KVK_Shajapur(M.P.)

Year of sanction:...April 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr.G.R.Ambawatia	07364-292055	917999058579	kvkshajapur@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. G. R. Ambawatia	PS & Head	Agro Forestry	37400-69000 AGP (10000)		2021	9425940256	kvkshajapur@rediffmail.com	
2	Subject Matter Specialist	Dr. S.S Dhakad	Scientist	Agri. Engineering	15600-39100 AGP (7000)	07.03.2011	2013	7987852003	sudhirdhakad@rediffmail.com	
3	Subject Matter Specialist	Dr. Gayatri Verma Rawal	Scientist	Home Science	15600-39100 AGP (7000)	24.2.2011	2012	9575036055	gayatri_84@ymail.com	
4	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
5	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
8	Programme Assistant	Dr. Mukesh Singh	ACTO	Extension	15600-39100 AGP (6600)	12.03.2007	2018	9926755978	mukeshsingh1974@rediffmail.com	

9	Computer Programmer/ Programme Assistant	Mr. Ratnesh Vishwakarma	STO	IT	15600-39100 AGP (5400)	31.03.2008	2021	9425465482	ratnesh_vis@rediffmail.com	
10	Farm Manager	Dr.D.K.Tiwari	TO	Agronomy	9300-34800 AGP (4200)	02.09.2016	2022	9407079161	tiwaridk78@gmail.com	
11	Assistant	Mr. Hitendra Indoriya	Accountant	Account	9300-34800 AGP (3600)	09.12.2016	2016	8319926067	hitendraindoriya@gmail.com	
12	Jr. Stenographer / Comp. Operator	Ms. Nikita Nand	Stenographer	Computer	5200-20200 AGP (2800)	26.08.2019	2019	9479891162	nikitananda98@gmail.com	
13	Driver	Mr. Gangaram Rathod	Driver	Driver cum mechanic	5200-20200 AGP (2400)	08.07.2008	2008	9826499297	kvkshajapur@rediffmail.com	
14	Driver	Mr. Hafiz Khan	Driver	Driver cum mechanic	5200-20200 AGP (2400)	08.07.2008	2021	9907055932	kvkshajapur@rediffmail.com	
15	Supporting staff	Vacant	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha):17 ha

S. No.	Item	Area (ha)
1	Under Buildings	2.00
2	Under Demonstration Units	2.00
3	Under Crops	13.00
4	Orchard/Agro-forestry	-
5	Others (specify)	-
Total		

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	-	497	-	-	-	-
2	Farmers Hostel	ICAR	-	300	-	-	-	-
3	Staff Quarters (6)	ICAR	-	400	-	-	-	-
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 2				
Bajaj Discover MP42MD6917	2010		52161	working
Hero Passion MP09LG 6505	2005	44800		Unservicable & Not in Working Condion
Bolero MP-02 AV 6425	2017	598605	90000	working
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	1	35000.00	working
Xerox Machine	1	100000.00	Not working Unseviceble
Generator	1	-	working
Video Camera	1	20000.00	Not working Unseviceble
Computer,	4	200000.00	working
Laser Printer	4	50000.00	working
UPS 600 VA	4	8000.00	working

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

Sl. No.	Tentative Date
1	May 2023
2	Oct 2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1(Malwa Plateau)	Soybean-Wheat/Chickpea/Garlic/Onion/potato, Agriculture + Poultry /Dairy /Goatry

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 (Malwa Plateau)	Block shajapur, moman barodia, shujalpur and kalapipal comes under Malwa plateau. The soils of this region are heavy to medium black soils.

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

Strength	Weakness	Opportunities	Threats
Good soil type good infrastructure facilities and transport	Lack of irrigation and crop diversification	Possibility of export of good produce	Uncertainty of erratic rainfall and climatic condition

Land Use Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	338887 ha
Forest	0
Waste Land	-
Other than cultivated area	-
Cultivable waste and alkaline land	15890 ha
Pastures	-
Bushes	-
Current Fallow	-
Other Fallow	-
Agricultural Land	276640 ha
Area Sown	260750 ha
Kharif	260750 ha
Rabi	163786 ha
Zaid	-
Cropping Intensity	159

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	32946
2	Well	83041
3	Tube well	27309
4	Ponds	14567
5	Others	5923

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Black cotton Soil	These soils are dark grey to black in color, composed of clay and are plastic & sticky in nature. These soils are fertile in nature and derived from decomposition of trappean rocks having thickness of 15 cm to 2m . These soils cover major part of the district	
2	Lateritic soil	These soils consist of sandy loam to clayey loam and brick red to red in colour. These soils are derived from weathered ferruginous basalt	
3	Alluvium soil	The alluvium is of mixed origin & comprises of silt & clay and admixtures of these in varying properties. The occurrence of alluvium is confined to the bank of stream and rivers and usually 3 to 4m un	

		thickness.	
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	276000	35600000	12.90
2	Sorghum	2100	3780000	18.00
3	Pigeon pea	1200	144000	12.00
4	Green Gram	400	24000	9.30
5	Maize	4900	980000	20.00
6	Black Gram	2200	167000	9.50
7	Mustard	1880	244000	13.00
8	Chick pea	110000	13640000	12.40
9	Wheat	115000	55500000	42.00

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	32.0	24.4	5.7
Feb, 22	4	34.0	12.1
Mar, 22	2.2	35.40	12.52
Apr, 22	11	42.5	24.1
May, 22	15.6	45.0	24
Jun, 22	78	38.5	23.1
July, 2022	330.2	31.3	23.2
Aug., 2022	441.6	31.2	21.8
Sept., 2022	108.4	34.6	23.5
Oct. 2022	46.4	32.4	13.1
Nov. 2022	0	31.6	11.0
Dec. 2022	16.2	30.2	7.7

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	Shajapur	Shajapur	Gopipur	Soybean, Chickpea wheat and vegetable	•Injudicious use of fertilizer, Pesticide and herbicide and	•Application of Balanced Nutrient through INM is needed owing to

2	Shajapur	Shajapur	Sunera	Soybean, Chickpea wheat and vegetable	use of old variety in soybean	imbalance fertilizer doses
3	Moman barodia	Moman barodia	Khoria ama	Soybean, Chickpea wheat and vegetable	•Injudicious use of fertilizer, Pesticide in vegetables & spices	•Encouragement of organic farming
4	Kalapipal	Kalapipal	Khargone kala	Soybean, Chickpea wheat and vegetable	•Improper management of crop residue, injudicious use of fertilizer & insecticides in cereals	•Crop diversification in Command area
5	Shualpur	Shualpur	Jamner	Soybean, Chickpea wheat and vegetable	•Poor farm mechanization	•Promoting horticultural crops value addition technology in chilli, tomato etc. in the district.
6	Moman barodia	Moman barodia	Bedagnagar	Soybean, Chickpea wheat and vegetable	•Lack of knowledge about millet crops	•Promotion of agri-enterprises viz., vegetable cultivation, mushroom cultivation, dairy, goatery, fisheries and value addition
					•Inadequate soil and water conservation structures	•To Develop profitable farming system models based on the resources available with farm families.
						•To improve the skill of the farming communities
						•To upgrade the knowledge of district level extension functionaries.
						•Employment generation by women drudgery reduction.
						•Soil & water conservation

Priority / Thrust areas

S. No.	Particulars
1.	Application of Balanced Nutrient through INM is needed owing to imbalance fertilizer doses
2.	Encouragement of organic farming
3.	Crop diversification in Command area
4.	Promoting horticultural crops value addition technology in chilli, tomato etc. in the district.
5.	Promotion of agri-enterprises viz., vegetable cultivation, mushroom cultivation, dairy, goatery, fisheries and value addition
6.	To Develop profitable farming system models based on the resources available with farm families.
7.	To improve the skill of the farming communities
8.	To upgrade the knowledge of district level extension functionaries.
9.	Employment generation by women drudgery reduction.
10	Soil & water conservation

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
20	401	20	198

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
109	2725	321	9630

Seed Production (Qtl.)	Planting material (Nos.)
400	10000

B. Abstract of interventions to be undertaken

[illegible]

Technologies to be assessed

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

[illegible]

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

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

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of newly released varieties for higher production in Soybean	
Problem diagnosed	Low yield due to old variety (JS 9560) & infestation of diseases	
Farmers' Practices	Old variety JS 9560	
Details of technologies selected for assessment	T ₁	JS 2034
	T ₂	RVS 2011-35
Source of technology	RVSKVV, 2021	
Plot size	2000 m ²	
No. of farmers	12	
Total cost	22680	
Critical input	Improved Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

Detailed Information about OFT: 1

1. Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of newly released varieties for higher production in Soybean
Year/Season:	2023-24 / Kharif
Farming situation:	Rain fed
Problem diagnosis:	Low yield due to old variety (JS 9560) & infestation of diseases
Thematic area:	Varietal Evaluation
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 –Farmers Practice-	JS 9560
T2 –Recommended Practice-	JS 2034
T3 - Recommended Practice-	RVS 2011-35
Date of sowing:	Last week of June
Date of harvesting:	Last week of September
Source of technology:	RVSKVV, 2021
Characteristics of technology:	Improved & High Yielding, YMV Resistant, Climate resilience
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Crop / Enterprise	soybean
Title of on farm trial	Assessment of different sowing methods in soybean
Problem diagnosed	Low yield of soybean due to poor moisture stress or water stagnation during heavy down pour
Farmers' Practices	Ridge & Furrow
Details of technologies selected for assessment	BBF FIRB -The tractor operated raised bed planter had been used in sowing of crop in which two raised bed can be made on which planting is also carried out simultaneous. Machine can sow two rows of crop on each bed. These furrows are useful to drain out excessive rainwater during heavy storms and for storing rainwater in furrows for enriching soil moisture through percolation in case of deficit rainfall and the soil moisture thus stored sustain the crop during dry spells. Raised bed planting encourages in-situ moisture conservation with saving of irrigation water and nodulation due to better aeration
Source of technology	DOSR and CIAE (2011)
Plot size	
No. of farmers	10
Total cost	Rs 18000
Critical input	Sowing with BBF and FIRB
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	

2. Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of different sowing methods in soybean
Year/Season:	2023-24/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of soybean due to poor moisture stress or water stagnation during heavy down pour
Thematic area:	AEG
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Ridge & Furrow
T2 –Recommended Practice-	BBF
T3- Recommended Practice-	FIRB
Date of sowing:	Last week of June
Date of harvesting:	Last week of September
Source of technology:	DOSR and CIAE (2011)
Characteristics of technology:	The tractor operated raised bed planter had been used in sowing of crop in which two raised bed can be made on which planting is also carried out simultaneous. Machine can sow two rows of crop on each bed. These furrows are useful to drain out excessive rainwater during heavy storms and for storing rainwater in furrows for enriching soil moisture through percolation in case of deficit rainfall and the soil moisture thus stored sustain the crop during dry spells. Raised bed planting encourages in-situ moisture conservation with saving of irrigation water and nodulation due to better aeration
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT - 03

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of Natural Farming in Soybean
Problem diagnosed	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system
Farmers' Practices	Farmers are using chemicals and fertilizers
Details of technologies selected for assessment	T ₁ Farmers are using chemicals and fertilizers
	T ₂ Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 750 l/ha at sowing, 15, 30, 45 DAS (S & FA), Dash Patti Kadha and Bramhaastra @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS
Source of technology	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज – 1-166 NCONF, Ghaziabad, 2022
Plot size	2000 m ²
No. of farmers	12
Total cost	5400
Critical input	Jaggery, Pulse Flour
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	

3.Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming in Soybean
Year/Season:	
Farming situation:	Rain fed
Problem diagnosis:	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system
Thematic area:	Natural Farming
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1-Farmers are using chemicals and fertilizers
T2 –Recommended Practice-	T2- Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 750 l/ha at sowing, 15, 30, 45 DAS (S & FA), Dash Patti Kadha and Bramhaastra @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज – 1-166 NCONF, Ghaziabad, 2022
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-04

Crop / Enterprise	Muskmelon	
Title of on farm trial	Assessment of plastic mulch with water and nutrient management in Muskmelon crop	
Problem diagnosed	Heavy weed infestation and more water consumption due to flood irrigation and low productivity	
Farmers' Practices	Planting on raised bed only	
Details of technologies selected for assessment	T ₁	Planting on raised bed with drip irrigation with residues mulch
	T ₂	Planting on raised bed with mulching (25 micron, silver-black plastic sheet) & fertigation
Source of technology	IIHR, 2011	
Plot size		
No. of farmers	12	
Total cost	Rs 240000 for plastic mulch sheet	
Critical input	One roll of plastic mulch sheet (25 micron)	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation		

4.Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of plastic mulch with water and nutrient management in Muskmelon crop
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Heavy weed infestation and more water consumption due to flood irrigation and low productivity
Thematic area:	HOF
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Planting on raised bed only
T2 –Recommended Practice-	Planting on raised bed with drip irrigation with residues mulch
T3- Recommended Practice-	Planting on raised bed with mulching (25 micron, silver-black plastic sheet) & fertigation
Date of sowing:	1 st week of March
Date of harvesting:	last week of april
Source of technology:	IIHR, 2011
Characteristics of technology:	Planting on raised bed with mulching (25 micron, silver-black plastic sheet) & fertigation for water saving and fertilizer saving with better production of muskmelon with better quality produce
Name of Crop/Enterprises:	Muskmelon
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-05

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of Integrated Nutrient Management in Kharif Onion with Raised bed	
Problem diagnosed	Low yield of Onion due to erratic rainfall & imbalance use of fertilizer	
Farmers' Practices	125 kg Urea + 200SSP/ha (57:32:0 kg/ha NPK) + Flat Bed	
Details of technologies selected for assessment	T ₁	RDF 100:60:100 NPK + BBF
	T ₂	2 Tons /ha FYM + RDF 100:60:100 NPK + BBF
Source of technology	JNKVV 2014	
Plot size		
No. of farmers	10	
Total cost	Rs. 15,000	
Critical input	MOP	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation		

5.Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Integrated Nutrient Management in Kharif Onion with Raised bed
Year/Season:	
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Onion due to erratic rainfall & imbalance use of fertilizer
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	125 kg Urea + 200SSP/ha (57:32:0 kg/ha NPK) + Flat Bed
T2 –Recommended Practice-	RDF 100:60:100 NPK + BBF
T3- Recommended Practice-	2 Tons /ha FYM + RDF 100:60:100 NPK + BBF
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV 2014
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-06

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of promising varieties of Kharif Onion for higher yield and income	
Problem diagnosed	Low yield of Kharif Onion Farmers are mainly growing old varieties (known as Nasik) with major breakthrough in yield realization through improved varieties, the farmers aspire to get maximum production per unit area.	
Farmers' Practices	LOK-1	
Details of technologies selected for assessment	T ₁	Farmers Practice – Nasik
	T ₂	T2-AFDR, T ₃ -Bheema super
Source of technology	DOGR, Pune	
Plot size		
No. of farmers	12	
Total cost	Rs 30000	
Critical input	Seed	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation		

6.Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of promising varieties of Kharif Onion for higher yield and income
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Kharif Onion Farmers are mainly growing old varieties (known as Nasik) with major breakthrough in yield realization through improved varieties, the farmers aspire to get maximum production per unit area.
Thematic area:	H & Vc.
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice – Nasik
T2 –Recommended Practice-	AFDR, T ₃ -Bheema super
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	DOGR, Pune
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of improve variety of Wheat crop	
Problem diagnosed	Low yield due to Old variety	
Farmers' Practices	LOK-1	
Details of technologies selectedfor assessment	T ₂	Pusa vani HI-16363 (115-120 maturity day)
	T ₃	Pusa Bakula HI-1636 (117-122 maturity day)
Source of technology	IARI, Indore	
Plot size		
No. of farmers	12	
Total cost	Rs 18000	
Critical input	Seed	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation		

7.Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of improve variety of Wheat crop
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to Old variety
Thematic area:	VE
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	LOK-1
T2 –Recommended Practice-	Pusa vani HI-16363 (115-120 maturity day)
T3- Recommended Practice-	Pusa Bakula HI-1636 (117-122 maturity day)
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of improve variety of Wheat crop for late sowing	
Problem diagnosed	Low yield due late sowing after potato digging	
Farmers' Practices	LOK-1	
Details of technologies selectedfor assessment	T ₁	farmar Practices, LOK-1
	T ₂	Pusa Ahilya HI-1634 ((100-105 maturity day)
Source of technology	IARI, Indore	
Plot size		
No. of farmers	12	
Total cost	Rs 18000	
Critical input	Seed	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation		

8.Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of improve variety of Wheat crop for late sowing
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Low yield due late sowing after potato digging
Thematic area:	VE
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	LOK-1
T2 –Recommended Practice-	Pusa Ahilya HI-1634 ((100-105 maturity day)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Crop / Enterprise	Kalonji	
Title of on farm trial	Assessment of Improved variety Azad Kalonji	
Problem diagnosed	Low Income due to high cost of cultivation	
Farmers' Practices	Traditional Crop (Wheat)	
Details of technologies selectedfor assessment	T ₁	Traditional Crop (Wheat)
	T ₂	crop diversification through improved variety of Kalonji Azad Kalonji
Source of technology	NRCSS- Ajmer	
Plot size		
No. of farmers	12	
Total cost	Rs 7200	
Critical input	Seed	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation		

9.Name of Discipline	Agroforestry
Title of on-farm trial:	Assessment of Improved variety Azad Kalonji
Year/Season:	Rabi 2022-23
Farming situation:	Irrigated
Problem diagnosis:	Low Income due to high cost of cultivation
Thematic area:	HOF
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional Crop (Wheat)
T2 –Recommended Practice-	Crop diversification through improved variety of Kalonji Azad Kalonji
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NRCSS- Ajmer
Characteristics of technology:	
Name of Crop/Enterprises:	Kalonji
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-10

Crop / Enterprise	Chandrasoor	
Title of on farm trial	Assessment of improved variety of Chandrasoor MC-1	
Problem diagnosed	Low Income due to high cost of cultivation	
Farmers' Practices	Traditional Crop (Gram/lentil)	
Details of technologies selected for assessment	T ₁	Traditional Crop (Gram/lentil)
	T ₂	crop diversification through improved variety of Chandrasoor MC-1
Source of technology	JNKVV, Jabalpur	
Plot size		
No. of farmers	12	
Total cost	Rs 6000	
Critical input	Seed	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation		

10.Name of Discipline	Agroforestry
Title of on-farm trial:	Assessment of improved variety of Chandrasoor MC-1
Year/Season:	Rabi 2022-23
Farming situation:	Irrigated
Problem diagnosis:	Low Income due to high cost of cultivation
Thematic area:	HOF
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional Crop (Gram/lentil)
T2 –Recommended Practice-	Crop diversification through improved variety of Chandrasoor MC-1
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Chandrasoor
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-11

Crop / Enterprise	cucumber
Title of on farm trial	Assessment of plastic mulch with water and nutrient management in cucumber
Problem diagnosed	Heavy weed infestation and more water consumption due to flood irrigation and low productivity
Farmers' Practices	Planting on raised bed only
Details of technologies selected for assessment	T ₂ Planting on raised bed with drip irrigation
	T ₃ Planting on raised bed with mulching (25 micron, silver-black plastic sheet) & fertigation
Source of technology	IIHR, 2011
Plot size	
No. of farmers	12
Total cost	Rs 240000 for plastic mulch sheet
Critical input	Seed
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	

11.Name of Discipline	Agril Engineering
Title of on-farm trial:	Assessment of plastic mulch with water and nutrient management in cucumber
Year/Season:	Summer 2022-23
Farming situation:	Irrigated
Problem diagnosis:	Heavy weed infestation and more water consumption due to flood irrigation and low productivity
Thematic area:	HOV
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Planting on raised bed only
T2 –Recommended Practice-	Planting on raised bed with drip irrigation
T3- Recommended Practice-	Planting on raised bed with mulching (25 micron, silver-black plastic sheet) & fertigation
Date of sowing:	1 st week of June
Date of harvesting:	3 rd week of July
Source of technology:	IIHR, 2011
Characteristics of technology:	Planting on raised bed with mulching (25 micron, silver-black plastic sheet) & fertigation, water & fertilizer saving with quality produce
Name of Crop/Enterprises:	Cucumber
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-12

Crop / Enterprise	wheat

Title of on farm trial	Assessment of reaper cum binder for harvesting
Problem diagnosed	High labour cost during harvesting of wheat
Farmers' Practices	Manual Harvesting
Details of technologies selected for assessment	T ₁ Manual Harvesting
	T ₂ Use of reaper cum binder
Source of technology	CIAE, Bhopal
Plot size	
No. of farmers	12
Total cost	14400.00
Critical input	Use machine on higher basis
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	

12.Name of Discipline	Agril Engineering
Title of on-farm trial:	Assessment of reaper cum binder for harvesting
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	High labour cost during harvesting of wheat
Thematic area:	Farm mechanization
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Manual Harvesting
T2 –Recommended Practice-	Use of reaper cum binder
T3- Recommended Practice-	
Date of sowing:	2 nd week of November
Date of harvesting:	2 nd week of March
Source of technology:	CIAE, Bhopal
Characteristics of technology:	Saving of time with reduce cost of harvesting for wheat crop
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-13

Crop / Enterprise	chickpea

Title of on farm trial	Assessment of Natural Farming in chickpea	
Problem diagnosed	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system	
Farmers' Practices	Farmers are using chemicals and fertilizers	
Details of technologies selected for assessment	T ₁	Farmers are using chemicals and fertilizers
	T ₂	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 750 l/ha at sowing, 15, 30, 45 DAS (S & FA), Das Patti Kadha and Bramhaastra @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS.
Source of technology	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज – 1-166, NCONF, Ghaziabad 2022	
Plot size		
No. of farmers	08	
Total cost	3600/-	
Critical input	Jaggary, Pulse Flour	
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation		

13.Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming in chickpea
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	High Cost of Cultivation, atmospheric pollution, human health issue in current conventional agriculture system
Thematic area:	Soybean- Chickpea and Natural Farming
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Chemical fertilizer
T2 –Recommended Practice-	Beejamrit @ 50 g/kg seed, Ghanjeevamrit at sowing @ 500 kg/ha, Jeevamrit @ 750 l/ha at sowing, 15, 30, 45 DAS (S & FA), Das Patti Kadha and Bramhaastra @ 25 l/ha at 20 and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS.
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	आचार्य देवव्रत (2019): कम लागत प्राकृतिक कृषि, पेज – 1-166, NCONF, Ghaziabad 2022
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

1.Title	Study of effective of visual based social media Whatsapp for Dissemination of yellow mosaic Disease management technology in Greengram under Greengram-Wheat crop Sequence in black soil.

Season & Year	Kharif 2023
Problem identified	Less use of innovative visual based media for agriculture information.
Thematic Area	ICT
Farming situation	Irrigated, Black Soil
Name of Technology Intervention under study	Visual based social media Whatsapp for Dissemination of yellow mosaic Disease management technology in Greengram under Greengram-Wheat crop Sequence in black soil.
Farmers Practice	Least use of visual based media for agriculture information
No. of replication (Farmers)	100

Results / findings

Performance indicators/ parameters	Unit/ details
1.Content of message 2.Time of message sent 3.Type of Message 4. No. of word message 5.Language of the message 6.Crop stage when message sent 7. Visibility of the content 8. Applicability of the KMA	

2.Title	Study of effective of visual based social media Whatsapp for Dissemination of Wilt management technology in Chickpea under Soybean-Chickpea crop Sequence.
Season & Year	Rabi, 2023
Problem identified	Less use of innovative visual based media for agriculture information.
Thematic Area	ICT
Farming situation	Irrigated, Black Soil
Name of Technology Intervention under study	Visual based social media Whatsapp for Dissemination of Wilt management technology in Chickpea under Soybean-Chickpea crop Sequence.
Farmers Practice	Least use of visual based media for agriculture information
No. of replication (Farmers)	100

Results / findings

Performance indicators/ parameters	Unit/ details
1.Content of message 2.Time of message sent 3.Type of Message 4. No. of word message 5.Language of the message 6.Crop stage when message sent 7. Visibility of the content 8. Applicability of the KMA	

3.Title	Assessment of Bio-waste decomposer for quality organic product to enhance soil health in Soybean-wheat cropping system
Season & Year	2023-24

Problem identified	Low yield due to low soil organic carbon content
Thematic Area	NRM
Farming situation	Irrigated
Name of Technology Intervention under study	
Farmers Practice	Dumping the farm waste and residue in pits exposed to extreme weather conditions
No. of replication (Farmers)	05

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

1.Title of on-farm trial:	Assessment of Bio waste recycling by using Portable Vermi compost unit.
Year/Season:	2023-24

Problem diagnosis:	Low income of farm women , Use of partially decomposed FYM with low nutrient content and increasing in crops pest infestation
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation/Organic Farming
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Use of partially decomposed FYM in summer season.
T2 –Recommended Practice-	Bio waste recycling through Portable Vermi compost unit.
Source of technology:	IISS, GBPUAT and JNKVV
Characteristics of technology:	Use of freshly prepared vermi compost prior to sowing of crop or during intercultural operation .
Name of Crop/Enterprises:	Portable Vermi compost unit.
Farming situation:	Use of partially decomposed FYM in summer season.
Date of sowing:	-
Date of harvesting:	-
Parameter	Use of Bio waste (Kg/unit), Vermi compost production (Kg/unit),income/unit organic matter content in soil and B:C
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

2.Title of on-farm trial:	Assessment of Bio fortified -durum Wheat variety Pusa Tejas (HI-8759) Porridge for nutritional security of farm women & their children
Year/Season:	2023-24

Problem diagnosis:	Lack of awareness regarding nutritious food in daily diet
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-	Non-consumption of porridge
T2 –Recommended Practice-	Porridge of Bio fortified Durum Wheat variety Pusa Tejas (HI-8759) high protein , Zink and Iron contain
Source of technology:	IARI Wheat Research Centre, Indore
Characteristics of technology:	Bio fortified Durum Wheat variety Pusa Tejas (HI-8759) high protein , Zink and Iron contain
Name of Crop/Enterprises:	Wheat
Farming situation:	Non-consumption of (porridge),use of old variety.
Date of sowing:	20 November
Date of harvesting:	March
Recommendations for Farmers	Bio fortified Durum Wheat variety Pusa Tejas (HI-8759) high protein , Zink and Iron contain
Recommendations for Deptt. Personnel	Bio fortified Durum Wheat variety Pusa Tejas (HI-8759) high protein , Zink and Iron contain
Feedback	-

3.Title of on-farm trial:	Assessment of Nutritional status of adolescent girls by nutritional intervention through drum stick

Year/Season:	2023-24
Problem diagnosis:	1)Low iron content in diet 2) Use of traditional diet 3) Lack of knowledge about nutritional foods 4) Poor socio-economic condition
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-	No use of drumstick.
T2 Recommended Practice-	Addition of drumstick leaf powder in chapati.
T3	Addition of drumstick pods in curry.
Source of technology:	MS University Baroda (Gujarat) - 2010
Characteristics of technology:	Nutritional Security through drumstick increase HB level and BMI
Name of Crop/Enterprises:	Drum Stick
Farming situation:	No use of drumstick.
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	Nutritional Security through drumstick increase HB level and BMI
Recommendations for Deptt. Personnel	Nutritional Security through drumstick increase HB level and BMI
Feedback	-

4.Title of on-farm trial:	Assessment of Oyster Mushroom cultivation for Income Generation
Year/Season:	2023-24

Problem diagnosis:	Poor economic status of the household due to seasonal unemployment..
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income Generation
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No Mushroom cultivation..
T2 –Recommended Practice-	Fresh oyster Mushroom cultivation.
T3-	Dry oyster mushroom powder
Source of technology:	JNKVV ,2000.
Characteristics of technology:	oyster mushroom cultivation for income generation and source of high protein, minerals, fiber etc
Name of Crop/Enterprises:	Oyster Mushroom
Farming situation:	No Mushroom cultivation
Date of sowing:	September
Date of harvesting:	November
Recommendations for Farmers	oyster mushroom cultivation for income generation and source of high protein, minerals, fiber etc
Recommendations for Deptt. Personnel	oyster mushroom cultivation for income generation and source of high protein, minerals, fiber etc
Feedback	

Frontline Demonstrations

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

S.N	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonst ration	Parameters identified for performance evaluation
1	Soybean (CFLD)	VE	Demonstration of JS-20-69, seed + Seed treatment with Carbendazim + Mencozeb + rhizobium, PSB +RDF+A. Molybdate + Swing on R & F with N.P.K.S. 30:55:25:20 on STV based kg./ha + Imazathypar @500 ml. At 20 DAS+ Chlroentra niliprol @ 100 ml / ha	Seed	Kharif 2023	20	50	Yield q/ha, B:C Ratio
2	Soybean	IWM	Demonstration on weed management in soybean through herbicides	Imazamox	Kharif, 2023	0.4	10	Weed population/m ² , Yield, Net return, B:C ratio, Farmers reaction
3	Mandarin	IPM	Demonstration of Imidaclopride for control of citrus blackfly in mandarin	Medicine	Kharif 2023	5	12	Yield q/ha, B:C Ratio
4	Greengram (CFLD)	VE	Demonstration of Green Gram Variety – Vishal –IPM- 410-3 seed + Seed treatment with Carbendazim + Mencozeb + rhizobium, PSB+A. Molybdate +RDF, &, Swing on R & F with N.P.K.S. 28:62:25:23 on STV based kg./ha + Imazathypar @500 ml. At 20 DAS+ Chlroentra niliprol@100ml/ha	Seed	Kharif 2023	10	25	Yield q/ha, B:C Ratio
5	Mustard	AEG	Demonstration Seed cum ferti drill crop in mustard	Sowing with Seed cum ferti drill	Rabi 2023	2	5	Field capacity Yield q/ha, B:C Ratio
6	Onion	IPM	Demonstration of Fipronil 5% SC + sticky traps for the management of thrips in Onion	Seed	Kharif 2023	4	10	Yield q/ha, B:C Ratio
7	Mustard (CFLD)	VE	Demonstration of Mustard Variety RVM-2, seed treatment with Azetobactor, PSB & Carbendazim, Swing on R & F with N.P.K.S. 26:60:30:05 on STV based kg./ha +Emidachloerid @300 ml./h	Seed	Rabi 2023-24	20	50	Yield q/ha, B:C Ratio
8	Chickpea (CFLD)	VE	Demonstration of Chickpea Varetty - RVG-204, seed + Seed treatment with	Seed	Rabi 2023-24	20	50	Yield q/ha, B:C Ratio

			Carbendazim + Mencozeb + rhizobium, PSB + A.Molybdate +RDF, & Swing on R & F with N.P.K.S. 27:61:29:05 on STV based kg./ha + Pendamithalen @3 L. At PE					
9	Wheat	VE	Demonstration of improved variety of Wheat Pusa Ujala (HI 1605)	Seed	Kharif 2023	1	10	Yield q/ha, B:C Ratio
10	Chilli	HOS	Demonstration of plastic mulch with water and nutrient management in chilli crop	Plastic mulch	Kharif 2023	0.4	10	Moisture (%), No. of Fruits / Plant, Yield (kg/ha), Net income (Rs./ha), Farmer Reaction & Farmer feed back
14	Seasonal Vegetables	Nutritional security	Demonstration of Backyard nutrition kitchen garden	Vegetable mini kit	Round the year	250 sqm	12	output (kg/day), Per capita Consumption gm/ day, Nutrient Intake (Unit)-Energy (kcal), Protein (gm), Iron (mg), Calcium(mg)
15	High value crops including chili, tomato Durable ,high strength, easy to use.	income generation /Nursery management .	Demonstration of Improved Nursery Management in vegetables (Chili) for income generation.	Nursery raising in Pro trays filled with mixture of coco peat (cockpit :soil :fym, 1:1:2)	Kharif 2023	0.1	12	Germination percentage , Mortality percentage in nursery stage, Growth just after transplanting, Net Return, B:C Ratio
16	Pulses (Chickpea)	Grain Storage	Demonstration of grain pro Super bag for Storage of pulses (Chickpea)	pro Super bag	Rabi - 2023	12	12	Moisture Percent ,No. of Infected Grains , weight of 100 grains, No. of stored insects (Adult)
17	Aonla	Value Addition	Demonstration of value addition in Aonla by making products- Candy	Value addition in Aonla by making products-candy (Aonla + Sugar (1kg@&70 0gm) + Dried)	Rabi 2023-24	12	12	Average cost of production Rs./kg, gross return, Net return, B:C Ratio, self life of products, farmers reaction.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6		160
2	Farmers Training	12		300
3	Media coverage	03		75
4	Training for extension functionaries	01		25

Details of FLD on Enterprises Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Demonstration of Garlic planter for planting gralic crop	garlic	rabi	05	2	sowing with Garlic planter			
Demonstration of potato planter for planting potato crop	potato	rabi	05	2	sowing with potato planter			
Demonstration Seed cum ferti drill crop in mustard	mustard	rabi	05	2	sowing with Seed cum ferti drill			

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Package Demonstarion	IV / Sowing method	seed	kharif 2023	20	50	
2	Greengram	Package Demonstarion	IV / Sowing method	seed	kharif 2023	10	25	
3.	Mustard	Package Demonstarion	IV / Sowing method	seed	Rabi 2023	20	50	
4.	Chickpea	Package Demonstarion	IV / Sowing method	seed	Rabi 2023	20	50	

Extension and Training activities under CFLDs Oilseed and Pulses

S.	Activity	No. of activities	Month	Number of participants

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	01	02							25
Design and development of low/minimum cost diet	01	02							25
Designing and development for high nutrient efficiency diet	01	02							25
Minimization of nutrient loss in processing	01	02							25
Gender mainstreaming through SHGs	01	02							25
Value addition	02	04							50
Income generation activities for empowerment of rural Women	01	02							25
Location specific drudgery reduction technologies	01	02							25
Women and child care	01	02							25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total									
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
Total									
VIII Fisheries									
Integrated fish farming									
Total									
IX Production of Inputs at site									
Vermi-compost production									
Organic manures production									
Total									
X Capacity Building and Group Dynamics									
Leadership development	02	02							
Group dynamics	02	02							
Formation and Management of SHGs	02	02							
Mobilization of social capital	02	02							
Entrepreneurial development of farmers/youths	02	02							
WTO and IPR issues	01	01							
Total									
XI Agro-forestry									
Total									
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production	01	05							25
Bee-keeping	01	05							25
Seed production	01	05							25
Planting material production	01	05							25
Vermi-culture	01	05							25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Value addition	01	05							25
Sheep and goat rearing	01	05							25
Para extension workers	01	05							25
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	2	2							50
Resource Conservation Technologies	2	2							50
Cropping Systems	2	2							50
Crop Diversification	2	2							50
Integrated Farming	2	2							50
Water management	2	2							50
Seed production	2	2							50
Nursery management	2	2							50
Integrated Crop Management	2	2							50
Fodder production	2	2							50
Production of organic inputs	2	2							50
Total	22	22							1100

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	2	2							50
g) Medicinal and Aromatic Plants	4	4							100
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	01	02							25
Design and development of low/minimum cost diet	01	02							25
Designing and development for high nutrient efficiency diet	01	02							25
Minimization of nutrient loss in processing	01	02							25

i) Farmers & Farm women

1. On Campus

[illegible]

Home Science										
January	Farm Women/ WCD Department	Household food security by kitchen gardening and nutrition gardening	02							25
February	Farm Women/ WCD Department	Design and development of low/minimum cost diet	02							25
March	Farm Women/ WCD Department	Designing and development for high nutrient efficiency diet	02							25
March	Farm Women/ WCD Department	Minimization of nutrient loss in processing	02							25
march	Farm Women	Gender mainstreaming through SHGs	02							25
May	Farm Women/Ry	Value addition	02							25
July	Farm Women/Ry	Income generation activities for empowerment of rural Women	02							25
September	Farm Women	Location specific drudgery reduction technologies	02							25
December	Farm Women/WCD department	Women and child care	02							25
Plant Protection										25
Agriculture Extension (Capacity Building and Group Dynamics)										
	Farmers	Leadership development in farmers	01							25
	Farmers	to developed the working Efficiency of the farmers	01							25
	Farmers	Formation and Management of SHGs	01							25
	Farmers	Programming & planning for Soybean crops	01							25
	Youth	Entrepreneurial development of farmers/youths	01							24
Agril. Engg										
April 2023	Farmers	Water Conservation & Recharge technologies	01							25
may 2023	Youth	Selection & Care of Agriculture Implements	02							25
September 2023	Farmers	Improved Agriculture Implement for Harvesting & Threshing for kharif crops	01							25
may 2023	Farmers	Improved technology of plastic mulching	01							25

Oct 2023	Youth	Selection & Care of improved Agriculture implements for Rabi crop	01							25
Dec 2023	Farmers	Improved Irrigation method for Rabi crop.	01							25
Jan 2023	Farmers	Modern Method of Irrigation for Rabi crop	01							25
June 2023	Farmers	Protected cultivation technologies	01							25
Dec 2023	Youth	Importance of Drone Technology in agril	01							25
March 2023	Youth	Protected cultivation technology watermelon and muskmelon	01							25
March 2023	Farmers	Improved Implements for Harvesting & Threshing	01							25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	Farmers/ Farm Women/Youth	3. IPM in Rabi crops 4. Plant protection in rabi crops under Natural farming	02							50
February	Farmers/ Farm Women/Youth	Natural farming important & its constituent	01							25
March	Farmers/ Farm Women/Youth	Production technology of summer crops	02							50
April	Farmers/ Farm Women/Youth	3.Importance & Method of Soil sampling 4.Irrigation & Nutrient management in summer crops	02							50
May	Farmers/ Farm Women/Youth	3. Importance of summer plough 4. Grain storage management	02							50
June	Farmers/ Farm Women/Youth	3. Field preparation and its management s in kharif 4. Importance and methods of soil & seed treatment	02							50

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
July	Farmers/ Farm Women/Youth	3. Oil seed production technology in kharif crops 4. Pulse crops production technology in kharif	02							50
August	Farmers/ Farm Women/Youth	3. INM in kharif crops 4. IWM in kharif crops	02							50
September	Farmers/ Farm Women/Youth	3. IPM in kharif crops 4. Nurient management under natural farming	02							50
October	Farmers/ Farm Women/Youth	3. Oil seed production technology in rabi crops 4. Pulse crops production technology in rabi	02							50
November	Farmers/ Farm Women/Youth	3. Production technology in wheat crop 4. Nutrient management in wheat crops	02							50
December	Farmers/ Farm Women/Youth	3. Weed management in wheat crop 4. Irrigation management in wheat crop	02							50
Horticulture										
Livestock production										
Home Science										
January	Farm Women/ WCD Department	Gender mainstreaming through SHGs	02							
February	Farm Women	Storage loss minimization techniques	02							
April	Farm Women	Value addition	02							
September	Farm Women/ WCD Department	Income generation activities for empowerment of rural Women	02							
march	Farm Women	Location specific drudgery	02							

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	
		reduction technologies								
august	Farm Women/ WCD Department	Household food security by kitchen gardening and nutrition gardening	02							

November	Farm Women/ WCD Department	Designing and development for high nutrient efficiency diet	02							

Plant Protection										

Agriculture Extension (Capacity Building and Group Dynamics)										
	Farmers	Leadership development in farmers	01							
	Farmers	to developed the working Efficiency of the farmers	01							
	Farmers	Formation and Management of SHGs	01							
	Farmers	Programming & planning for Soybean crops	01							
	Youth	Entrepreneurial development of farmers/youths	01							
Agril. Engg										
April 2023	Farmers	Soil & Water Conservation measure	01							25
June 2023	Farmers	Improve Drainage Technology for Kharif crop	01							25
September 2023	youths	Improved sowing implements for Rabi Crops	01							25
Oct 2023	Farmers	Mulching Technology for Rabi crop	01							25
August 2023	Farmers	Training & Demonstration of Pesticide Spray by Drone	01							25
Dec 2023	Youths	Improved Irrigation	01							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	
		method in Horticulture Crop								
Jan 2023	farmers	Natural farming technologies	01							25
May 2023	farmers	Water Conservation & Recharge Technology	01							25
March 2023	farmers	Improved Implements for Harvesting & Threshing	01							

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June	RY	Natural Farming	05							25
Horticulture										
Livestock production										
Home Science										
September	Farm women/ RY	Mushroom Production	05							25
june	Farm women/ RY	Planting material production	05							25
December	Farm women/ RY	Value addition	05							25
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
	Youth	income generate for rural youth by bee keeping	05							25

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat		
OILSEEDS	Soybean	JS-2034	150
PULSES	Gram	RVG-204	150
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)	Linseed	-	Roasted alsi -1 qt.
	Aonla	-	Aonla candy-1 qt.

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Blackberry	-	500
	Mango	-	500
SPICES			
VEGETABLES	Tomato	hybrid	1000
	Bringal	hybrid	1000
	Chilli	hybrid	1000
FOREST SPECIES			
ORNAMENTAL CROPS	Snake plant	-	500
PLANTATION CROPS	Drumstick	PKM-1 & PKM-2	1000
	lemongrass	-	1000
	Bel	-	500
	Neem	-	1000
Others (specify)	Giloy	-	500

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
Quaterly	jan to march	1000
Quaterly	april to june	1000
Quaterly	july to september	1000
Quaterly	October to december	1000

Details of Electronic Media to be Produced

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

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

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

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

5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Dangicha	mohan badodia	30 km
2	Narayangarh	Shajapur	18 km
3	Pochaner	Kalapipal	67 km
4	Rampura mewasa	Shajapur	15 km
5	Gopipur	Shajapur	11 km
6	Sunera	Shajapur	10 km
7			
8			

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage
FFS	Technical Support
Training	Technical Support

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes- Natural farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

Planning for Crop Cafeteria

Total Area of Crop cafeteria: **1720 Sq m**

Crop	Variety	Particulars /details	Area (Sq m)
Soybean	12	JS 20-34, JS 20-69, JS 20-98, JS 20-116, RVS 18, RVS 24, RVSM 11-35, NRC 127, NRC128, NRC 130, NRC138, NRC142,	240
Green gram	06	Shikha (IPM 410-3),, MH 421, IPM 2-3, JM 4, PDM 139 (Smrat), Virat	120
Black gram	06	Pratap Urid 1, PU 9, PU 10, PU 31, PU 7, IPU 94-1,	120
Sorghum	07	CSV 27, CSV 29, CSV 31, CSV 36, CSV 39, 2357, Raj 1862,	160
Maize	03	DKC 8209, DKC 7204, Maize Super 82	60
Kutki	01	JK-4	40
Total	35		740

Crop	Variety	Particulars /details	Area (Sq m)
Wheat	20	DDW 47, DDW 48, DBW 187, DBW 222, HI 1544, HD 2932, HI 1605, HI 1633, HI 1634, HI 1636, HI 1650, HI 1655, HI 8805, HI 8823, HI 8826, HI 8830, HD 4728, GW 513, HI 8737, HI 8759	400
Gram	12	RVG 202, RVG 203, RVG 204, RVG 205, Phule Vikram, Phule Vikrant, Vishwaraj, BG 3062, MNK 1, JGK 5, Kripa, RVKG 151	240
Safflower	07	RVSAF 18-1, RVSAF 18-3, RVSAF 14-1, JSF-1, JSI 7, JSI 73, JSI 97	140
Mustard	04	Digvijay, RH 749, NRCDR 2, RVM 2	80
Lentil	03	JL 3, DPL 62, RVL 11-6	60
Methi	03	Ajmeri methi, RMT 305, Desi Methi	60
Total	49		980

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Nursery unit		125	
Net house Big		500	
Small		100	
Dairy unit	4 Gir Cow + 2 Calf	80	
Vermi compost	16 Pit	180	
Natural farming unit	Jiwamrit, Neemashttra, Ghanjiwamrit, etc	50	
solar pannel	5 KW	45	
Mushroom Unit	Oyster Mushroom	10	

ANNUAL ACTION PLAN 2023

KVK SHEOPUR

Year of sanction 2006

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Kayam Singh	-	9009534624	kvk.sheopur@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Kayam Singh	Sr. Scientist & Head	Agonomy	161600	1/12/2014	04/01/2022	9009534624	dr.kayamsingh1975@gmail.com	
2	Subject Matter Specialist	Dr. Amit Kumar	Sr. Scientist	Plant Prot.	143600	23-04-07	18-09-2009	7905761441	dramit_w9@rediffmail.com	
3	Subject Matter Specialist	Dr. L.S Gurjar	Scientist	Agri. Ext.	101100	29-01-07	29-01-07	9425703713	lsgurjar29@rediffmail.com	
4	Subject Matter Specialist	Dr. CBS Jatav	Scientist	Agronomy	101100	11/2/2007	11/2/2007	9131128726	cbsjatav@rediffmail.com	
5	Subject Matter Specialist	-	-		-	-				
6	Subject Matter Specialist	-	-		-	-				
7	Subject Matter Specialist	-	-		-	-				
8	Programme Assistant	Dr. U.C Sharma	S.T.O	Agronomy	61300	9/3/2011	09--03-2021	7982084021	ucsharmarvskvv@gmail.com	
9	Computer Programmer/ Programme Assistant		-		-	-				
10	Farm Manager	-	-		-	-				
11	Assistant		-		-	-				
12	Jr. Stenographer / Comp. Operator	Sh. Rahul Pavaia	Jr. Sten. Cum Compt. Optr.	-	31400	2/12/2019	2/12/2019	8602393258	rahulpavaia@gmail.com	
13	Driver	-	-		-	-				
14	Driver	-	-		-	-				
15	Supporting staff	-	-		-	-				
16	Supporting staff	-	-		-	-				

1.3 Total land with KVK (in ha): 15.178

S. No.	Item	Area (ha)
1	Under Buildings	1.2
2	Under Demonstration Units	2.00
3	Under Crops	10.00
4	Orchard/Agro-forestry	0.4
5	Others (specify)	1.57
Total		15.178

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	April 2014	480	RVSKVV	-	-	-
2	Farmers Hostel	ICAR	April 2014	420	RVSKVV	-	-	-
3	Staff Quarters (6)	ICAR	April 2014	350	RVSKVV	-	-	-
4	Demonstration Units (8)	ICAR	May 2016	1056	RVSKVV	-	-	-
5	Fencing	ICAR	June 2018	1000	RVSKVV	-	-	-
6	Rain Water harvesting system	-	-		RVSKVV	-	-	-
7	Threshing floor	ICAR	Sept. 2022	450	RVSKVV	-	-	-
8	Farm godown	ICAR	Aug. 2021	261	RVSKVV	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2011	450000.00	3031.00	Running
Motor Cycle 2	2009	700000.00	38596.00	Running
Bolero(Jeep)	2021	777689.00	50290.00	Running

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Laptop HP	2011-12	23600.00	Running
HP printer 1106	2011-12	12600.00	Running
HP Laser jet printer 1005	2019-20	17600.00	Running
Ahuja conference system	2016-17	99818.00	Running
LG TV LED 24inch	2019-20	10000.00	Running
LG TV LED 65 inch	2019-20	93990.00	Running
HP Desktop PC (02)	2019-20	95600.00	Running
Dell Desktop PC	2021-22	40700.00	Running
Dell laptop	2021-22	44200.00	Running
Projector S-31 Epson	2016-17	32755.00	Running
LCD Projector 8520	2019-20	38799.00	Running
Hatchery machine	2016-17	99750.00	Running
Double Door Refrigerator	2018-19	24000.00	Running
Voltas A/C 1.5 Ton (2)	2018-19	60000.00	Running
Voltas A/c 2 Ton	2018-19	39980.00	Running
Voltas A/C 1.5 ton Cooper	2019-20	30500.00	Running
Voltas A/C 2 Ton (2)	2019-20	87600.00	Running
Lloyd Havells 200L Refrigerator	2021-22	17000.00	Running
Battery Exide (2)	2019-20	27800.00	Running
Inverter Microtech	2019-20	6000.00	Running

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

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

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1 Sheopur	Paddy/Soybean/Green Gram/Black Gram/Sesame- Mustard/Chickpea/Wheat
2	AES – 2 Karhal	Bajara/ Sesame/Jwar/Maize/Soybean/Pigeon pea-Mustard/chickpea/wheat
3	AES – 3 Vijaypur	Bajara/Jwar/Maize/Sesame/Soybean/Pigeon pea-Mustard/chickpea/wheat

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

S. No.	Agro-climatic Zone	Characteristics
1	Gird Zone	Elevation: 150 to 300 msl Geographical situations: Latitude- 25° 15'-25° 45'N Longitude -76° 22'-77° 22'E Average Rainfall: 944mm Temperature : Max. 48 °c & min. 2°c Physiographic: Plan, Rivers (Chambal & Parvati)

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Sheopur) Soybean/Paddy/ Sesame/Green gram/black gram-mustard/chickpea/wheat

Strength	Weakness	Opportunities	Threats
- Good soil, flat land - Suitable for intercropping and crop rotation - Irrigated channel system	- Permanent use of pesticide and weedicide - No drought tolerant variety - Surface water easily contaminated During heavy rainfall - Flood irrigation in command area	- Use of new high yielding variety and heat tolerant variety with Economically Viable - Switch from monoculture to rotation - Use of border strip method drip irrigation and sprinkler irrigation	More or new pest Unstable production associated with natural disasters (ex. Decrease soil health and more environment pollution)

AES-2 (Karhal) Soybean/Jwar/Maize/ Bajara/Pigeon pea- mustard/chickpea/wheat/guava/jackfruit/Ber

Strength	Weakness	Opportunities	Threats
- Good drainage, fertile soil suitable for horticultural & species and medicinal crops - Fertile soils , natural water resources	- Heavy gravelly and rocky soils, dry soil leaching during rains - Common pesticide - Forest degradation due to overharvesting, overgrazing	- Crop diversification with horticultural crops - High yielding variety of field crop and horticulture crop with economically viable - Stall feeding of animal	Natural disasters (drought, hot dry winds, stomas, floods) affect showering, fruiting, wood breakage cause soil erosion

AES-3 (Vijaypur) Soybean/Jwar/Maize/ Bajara/Pigeon pea- mustard/chickpea/wheat/guava/jackfruit/Ber

Strength	Weakness	Opportunities	Threats
- Good drainage, fertile soil suitable for field crop and coarse millets - natural water resources - High biodiversity - Generally ecosystem in balance	Forest degradation due to overharvesting, overgrazing and mining activities	- Course & cereal crops and Protecting ecosystem balance for local resilience - Stall feeding of animal - Strictly follow law & order by administration	Natural disasters (drought, hot dry winds, stomas, floods) affect showering, fruiting, wood breakage cause soil erosion

Add AES if needed- NA

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	666.60
Forest	292.8
Waste Land	39.30
Other than cultivated area	157.50
Cultivable waste and alkaline land	39.90
Pastures	37.2
Bushes	-
Current Fallow	8.30
Other Fallow	5.6
Agricultural Land	178.27
Net cultivated Area	170.20
Kharif	134.40
Rabi	157.40
Zaid	0.01849
Cropping Intensity	176%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	60.50
2	Well	9.60
3	Tube well	35.80
4	Ponds	6.10
5	Others	-

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Deep soils	Deep soil having dept 30-60 cm, sand 55.86%, silt 39.60% clay 0.33% with higher carbon in this soil deep rooted crop are grown e.g. pigeonpea, fruit crops & vegetables etc.	149.20
2	Medium deep soils	Soil depth is 25 to35cm. Crops with medium deep roots are grown in this type of soil e.g. chickpea,mustard, wheat etc. sand 39.9%, silt 32.9% clay 27.8%	84.40
3	Shallow soils	Soil depth less than 20 cm. Only shallow rooted crops are grown in such soil, e.g. paddy, wheat, barley etc. sand 40.5%, silt 32.5% clay 27.0% with higher carbon	425.40

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	77.55	348.97	4500
2	Paddy	45.00	193.50	4300
3	Bajara	21.12	432.96	2050
4	Chick pea	27.43	603.46	2200
5	Soybean	25.80	283.80	1100
6	Mustard	57.35	103.23	1800

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	23.00	22.00	03.40
Feb, 22	00.00	25.40	8.00
Mar, 22	00.00	28.00	12.00
Apr, 22	00.00	35.00	21.00
May, 22	18.50	36.00	23.00
Jun, 22	128.0	48.50	31.00
July, 2022	362.0	40.30	23.00
Aug., 2022	325.0	31.25	23.40
Sept., 2022	203.40	38.36	25.00
Oct. 2022	126.90	32.34	17.40
Nov. 2022	00.00	29.00	14.40
Dec. 2022	00.00	20.00	05.40

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	264110	153.80 MT.	 kg
Buffalo	198624	165.80 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	8591	12.06 MT wool	 kg
Goats	203150	0.69 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	2849	---	---
Rabbits	223		
Poultry			
Hens	94745	40.93Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	1680.83 (ha)	264 Mt/Q.	2365. 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	Baroda	Sheopur	Lalitpura, Indrapura, Ratodan	Soybean, Paddy, Black Gram, Mustard, Chickpea, wheat	Girdle beetle in Soybean, neck blast disease in rice, yellow mosaic virus in Black gram , dry root rot in chickpea	ICM, IPM, IDM, INM, HOV
2	Sheopur	Sheopur	Ichhapura, Bardha bujurg, Soikalan	Soybean, Paddy, Black Gram, Mustard, Chickpea, wheat	Girdle beetle in Soybean, neck blast disease in rice, yellow mosaic virus in Black gram , dry root rot in chickpea	ICM, IPM, IDM, INM, HOV
3	Karhal	Karhal	Parond,Dubadi, Kurkuta	Soybean, Bajara, Maize, Pigeon pea, mustard, chickpea, wheat	Girdle beetle in Soybean, neck blast disease in rice, yellow mosaic virus in Black gram , dry root rot in chickpea, Painted bug in mustard, fall army worm in Bajara	ICM, IPM, IDM, INM, HOV
4	Vijyapur	Vijaypur	Sevla, Majara	Soybean, Bajara, Maize, Pigeon pea, mustard, chickpea, wheat	Girdle beetle in Soybean, neck blast disease in rice, yellow mosaic virus in Black gram , dry root rot in chickpea, Painted bug in mustard, fall army worm in Bajara	ICM, IPM, IDM, INM, HOV

Priority / Thrust areas

S. No.	Particulars
1.	To increase the crop yield by seed replacement, IWM, IPM, INM & use of improved implements
2.	To create awareness about horticulture
3.	To increase milk productivity by A.I., balance feeding & Green fodder production.

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	288	16	225

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
75	1875	151	54110

Seed Production (Qtl.)	Planting material (Nos.)
320	53500

B. Abstract of interventions to be undertaken

S. N o.	Thru st area	Crop/ Enterpri se	Identified Problem	Interventions					
				Title of OFT if any	Title e of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
1	ICM	Wheat	Low yield due to lac of high yielding variety & technology.	Assessment of improved variety of wheat	Demonstratio n on Improved Vareity Pusa Tejas (HI-8759)	-	-	-	-
2	IDM	Paddy	Low yield due to neck blast disease	Assessment of fungicide against neck blast in Rice	-	-	-	-	-
3	VE	Wheat	Low yield due old variety	Assessment in improved variety	-	-	-	-	-
4	INM	Mustard	Low yield of mustard due to old variety and nutrient management	Assessment of nutrient management in mustard	Improved variety Girraj (IJ31) -2kg + Seed treatment (Imidacloprid 48% @ 5ml/kg seed) + Soil application of sulphar 20kg/ha + foliar spray of nutrient+ spraying of imidacloprid 17.8 SL@ 250 ml/ha	-	-	-	-

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
ICM	Wheat	Mustard	Chickpea	-	-	-	-	-	-	-
IPM	Paddy	Mustard	Chickpea	-	-	-	-	-	-	-
VE	Wheat	Mustard	Chickpea	-	-	-	-	-	-	-
INM	Paddy	Mustard	Chickpea	-	-	-	-	-	-	-
TOTAL										

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

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

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

Crop / Enterprise	Green Gram	
Title of on farm trial	Assessment of Improved variety of Green gram	
Problem diagnosed	Low yield non availability of synchronous variety, non availability of YMV resistant	
Farmers' Practices	Sowing of old variety	
Details of technologies selectedfor assessment	T ₁	Improved variety IPM 205-7
	T ₂	Improved variety IPM 410-3
Source of technology	IIPR, 2016	
Plot size		
No. of farmers	08	
Total cost	7050/-	
Critical input	Improved variety seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pods/ plant , No. of seed / plant , test weight (g), yield q/ha., net return, B:C	

OFT-2

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of weedicide in Soybean	
Problem diagnosed	Low productivity due to weed infestation	
Farmers' Practices	Use of Imezathyper	
Details of technologies selectedfor assessment	T2	Sulfentrazone 39.6 SC @ 360g ai/ha PE
	T3	Diclosulam 84 WDG@ 22g ai/ha PE
Source of technology	IISR, Indore 2016	
Plot size		
No. of farmers	08	
Total cost	12500/-	
Critical input	Weedicide	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No. of weed/ m² , yield q/ha, Net return, B:C	

OFT-3

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Improved variety of Rice	
Problem diagnosed	Low yield due to old variety	
Farmers' Practices	Use of Old variety PS- 4	
Details of technologies selectedfor assessment	T2	Improved variety Pusa Basmati-1692
	T3	Improved variety Pusa Basmati-7
Source of technology	RVSKVV, 2020	
Plot size		
No. of farmers	08	
Total cost	7700/-	
Critical input	Improved variety seed	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of tillers /hills, No. of ear head/hills , No. of grains/ear head, test weight (g), yield q/ha., net return, B:C	

OFT-4

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of sowing method in Rice	
Problem diagnosed	High cost of cultivation, more water consumption and more manpower req.	
Farmers' Practices	Transplanting	
Details of technologies selectedfor assessment	T2	DSR Broadcasting
	T3	DSR line sowing
Source of technology	RVSKVV, 2015	
Plot size		
No. of farmers	08	
Total cost	16500/-	
Critical input	Sowing method	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No. of tillers /hills, No. of ear head/hills , No. of grains/ear head, test weight (g), yield q/ha., net return, B:C	

OFT-5

Crop / Enterprise	Sesame	
Title of on farm trial	Assessment of Improved variety of sesame	
Problem diagnosed	Low yield due to old variety	
Farmers' Practices	Use of Old variety JT- 7	
Details of technologies selectedfor assessment	T2	Improved variety Jawahar Til 12
	T3	Improved variety Jawahar Til 14
Source of technology	RVSKVV, 2020	
Plot size		
No. of farmers	08	
Total cost	3900/-	
Critical input	Improved variety seed	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	No. of tiller /plant, No. of pods/plant, yield q/ha, B:C ratio	

OFT-6

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of fungicide against neck blast in Rice	
Problem diagnosed	Low yield due to neck blast disease	
Farmers' Practices	Spraying of any fungicide	
Details of technologies selectedfor assessment	T2	Spraying of Isoprotholane 500ml/ha at 10% panicle initiation stage
	T3	Spraying of Pyraclostrobin 500ml/ha at 10% panicle initiation stage
Source of technology	RVSKVV, 2016	
Plot size		
No. of farmers	08	
Total cost	7000/-	
Critical input	Disease management	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	No. of infected plant sqm, No. of infected panicle/plant, yield q/ha., net return, B:C	

OFT-7

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of insecticide for management of girdle beetle in soybean	
Problem diagnosed	Low yield of Soybean about 30-40 % losses due to heavy infestation of girdle beetle	
Farmers' Practices	Spraying of any insecticide	
Details of technologies selectedfor assessment	T2	Spraying of chlortriniliprole 9.3% + Lemdacylothrin 4.6% @ 200ml/ha
	T3	Emamectin Benzoate 1.9% EC 425ml/ha
Source of technology	DSR, 2016	
Plot size		
No. of farmers	08	
Total cost	7800/-	
Critical input	Insecticide	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	% infested plants,, Yield (q/ha) & Net Income, BC ratio	

OFT-8

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of nano urea on growth and yield attributes of wheat	
Problem diagnosed	Low yield (10%) of rice due to low Nitrogen use efficiency.	
Farmers' Practices	unbalance use fertilizers	
Details of technologies selectedfor assessment	T2	100% through Urea (120 kg N) +60 kg P Through SSP and40 Kg K Through MOP
	T3	60kg P, 40kg K+ 50% through Urea as basal dose + Three foliar spray of Nano urea @ 2.0 ml/liter water at 25, 45 & 65 DAS
Source of technology	IFFCO, 2017	
Plot size		
No. of farmers	08	
Total cost	2950/-	
Critical input	Nano urea 500ml	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Grains/Panicle, 1000 test weight (g) yield (q/ha), net return (Rs/ha), B:C ratio	

OFT-9

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of improved variety of wheat	
Problem diagnosed	Low yield due to lac of high yielding variety & technology.	
Farmers' Practices	Use of old variety	
Details of technologies selectedfor assessment	T2	IV, Pusa Ujala (HI 1605)
	T3	IV, RAJ 4238
Source of technology	IARI, 2017	
Plot size		
No. of farmers	08	
Total cost	12500/-	
Critical input	Iv, Seed	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	No. of tillers/plant, No. of grains/ ear, test weight (g), Yield q/ha, Net return, B:C	

OFT-10

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of weedicide in chickpea	
Problem diagnosed	low yield due to heavy weed infestation	
Farmers' Practices	No use of weedicide	
Details of technologies selectedfor assessment	T2	PE of pendimethyline 30 EC @ 1 kg ai/ha
	T3	Topramezone 33.6 SC @ 25.2 g ai/ha @ 20
Source of technology	IGKV, 2021	
Plot size		
No. of farmers	08	
Total cost	7000/-	
Critical input	Spraying of Weedicide	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	No. of weed/ sqm., dry weight of weeds/sqm (g), WCE(%), yield q/ha, Net return , B:C	

OFT-11

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Improved variety of Chickpea	
Problem diagnosed	Low productivity due to sowing of old variety	
Farmers' Practices	Use of old variety JAKI-9218	
Details of technologies selectedfor assessment	T2	Improved variety RVG 203
	T3	Improved variety RVG 204
Source of technology	RVSKVV, 2012	
Plot size		
No. of farmers	08	
Total cost	19200/-	
Critical input	IV, SEED	
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	No. of pods/ plant, test weight (g), Net return, B:C ratio, Farmers reaction	

OFT-12

Crop / Enterprise	Coriander	
Title of on farm trial	Assessment of disease resistant variety of Coriander	
Problem diagnosed	low yield due to stem gall disease in coriander	
Farmers' Practices	Use of disease susceptible variety CS-6	
Details of technologies selectedfor assessment	T2	Disease resistant variety ACR-1
	T3	Disease resistant variety ACR-2
Source of technology	NRCSS, Ajmer 2014	
Plot size		
No. of farmers	08	
Total cost	1880/-	
Critical input	Disease resistant variety Seed	
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	No of infected plant/sqm, yield (q/ha), Net return, B:C	

OFT-13

Crop / Enterprise	Garlic	
Title of on farm trial	Assessment of fungicide against purple blotch in garlic	
Problem diagnosed	Low yield of garlic due purple blotch	
Farmers' Practices	Spraying of fungicide mancozeb	
Details of technologies selectedfor assessment	T2	Azoxystrobin 18.2% + Difenocolozole 11.4% @ 1000ml/ha
	T3	Azoxystrobin 11% + Tebuconazole 18.3 SC @ 750ml/ha
Source of technology	CIB, 2022	
Plot size		
No. of farmers	08	
Total cost	6100/-	
Critical input	Fungicide	
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	No. of disease leaf / plant , yield/ha, B:C	

NATURAL FARMING OFTS**OFT-01**

Crop / Enterprise	Beejamrit & Jeevamrit	
Title of on farm trial	Assessment of Beejamrit and Jivamrit for nutrient management in soybean	
Problem diagnosed	Cost of cultivation increase due to injudicious use of chemical fertilizer	
Farmers' Practices	seed treatment with mancozeb 75% WP @ 2g/kg	
Details of technologies selectedfor assessment	T2	use of Beejamrit for seed treatment @ 10 ml/kg seed
	T3	seed treatment with beejamrit @ 10 ml/ kg seed + Spraying of jeevamrit @ 500 ltr / ha (Three spray at 20
Source of technology	NCOF, Gaziabad	
Plot size		
No. of farmers	08	
Total cost	30100/-	
Critical input	Beejamrit & Jeevamrit	
Performance indicators: (xi) Technical- yield (q/ ha) (xli) Economic (xlii) Social – Employment generation	No. of branch / plant, No. of pods/plant, No. of seeds/pods, yield q/ha and B:C ratio	

OFT-02

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of yield difference between Beejamrit -Jivamrit and recommended dose of chemical fertilizer in wheat	
Problem diagnosed	Yield losses about 14-18% due to low nutrition management in wheat crop	
Farmers' Practices	Imbalance use of chemical fertilizer	
Details of technologies selectedfor assessment	T2	Apply RDF NPK 120:60:40 kg/ha
	T3	seed treatment with beejamrit @ 10 ml/kg seed + drench with 500 ltr of jivamrit through irrigation water and Ist spray at 21 DAS & than four spray at 15 days interval
Source of technology	NCOF, Gaziabad	
Plot size		
No. of farmers	08	
Total cost	25800/-	
Critical input	Beejamrit & Jeevamrit	
Performance indicators: (xliii) Technical- yield (q/ ha) (xliv) Economic (xlv) Social – Employment generation	No. of tiller plant, No. of grains/ear and yield q/ha, B:C ratio	

OFT-03

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Beejamrit and Jivamrit for health management	
Problem diagnosed	Yield losses about 18-20% due to low nutrition in chickpea	
Farmers' Practices	Imbalance use of fertilizer	
Details of technologies selected for assessment	T2	Apply RDF NPK 20:60:20 kg/ha
	T3	seed treatment with beejamrit + drench with 500 ltr of jivamrit through irrigation water and 1st spray at 21 DAS & then four spray at 15 days interval
Source of technology	NCOF, Gaziabad	
Plot size	-	
No. of farmers	08	
Total cost	28200/-	
Critical input	Beejamrit & Jeevamrit	
Performance indicators: (xlvii) Technical- yield (q/ ha) (xlviii) Economic (xlviii) Social – Employment generation	No. of pods/ plant , yield q/ha and B:C ratio	

OFT-04

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Agniastra for management of gram pod borer	
Problem diagnosed	Losses about 15-18% due to heavy infestation of gram pod borer	
Farmers' Practices	use of phosalone 50% EC @ 1000 ml/ ha	
Details of technologies selected for assessment	T2	use of HaNPV @ 350 LE/ ha
	T3	use of 3% agniastra (Preventive spray at 30 DAS and then need based application at 15 Days interval)
Source of technology	NCOF, Gaziabad	
Plot size		
No. of farmers	08	
Total cost	23100/-	
Critical input	Agniastra	
Performance indicators: (xlix) Technical- yield (q/ ha) (l) Economic (li) Social – Employment generation	No. of infested pods/ plant, larvae/m ² and yield q/ha	

Detailed Information about OFT: 01 (AGRONOMY)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	AGRONOMY
Title of on-farm trial:	Assessment of Improved variety of Green Gram
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield, non availability of synchronous variety , non availability of YMV resistant
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local (TJM
T2 –Recommended Practice-	Virat (IPM 205-7
T3- Recommended Practice-	Sikha (IPM 410-3
Date of sowing:	July 2023
Date of harvesting:	Oct. 2023
Source of technology:	IIPR, 2016
Characteristics of technology:	High yield variety and resistant to YMV
Name of Crop/Enterprises:	Green Gram
Recommendations for Farmers	HYV
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 02 (AGRONOMY)

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 weedicide in Soybean
Year/Season:	Kharif 2022
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to weed infestation
Thematic area:	IWM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	farmers Practice (Imezathyper)
T2 –Recommended Practice-	Sulfentrazone 39.6 SC @ 360g ai/ha PE
T3- Recommended Practice-	Diclosulam 84 WDG@ 22g ai/ha PE
Date of sowing:	09-07-2023

Date of harvesting:	15-10-2023
Source of technology:	IISR, Indore 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	Weed management
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 03(AGRONOMY)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	AGRONOMY
Title of on-farm trial:	Assessment of Improved variety of Rice
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improved variety Pusa Basmati- 4
T2 –Recommended Practice-	Improved variety Pusa Basmati- 1692
T3- Recommended Practice-	Farmers Practice (Pusa Sugandha- 7
Date of sowing:	10-07-2023
Date of harvesting:	20-11-2023
Source of technology:	RVSKVV, 2020
Characteristics of technology:	High yielding variety
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	HYV
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 04 (AGRI. ENGINEERING)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	AGRI. ENGINEERING
Title of on-farm trial:	Assessment of sowing method in Rice
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	High cost of cultivation, more water consumption and more manpower req.
Thematic area:	ICM
No of trials:	08
No. of farmers involved	08

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Transplanting
T2 –Recommended Practice-	DSR- Broadcasting
T3- Recommended Practice-	DSR- Line sowing
Date of sowing:	10-07-2023
Date of harvesting:	20-11-2023
Source of technology:	RVSKVV, 2020
Characteristics of technology:	High yielding variety
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	HYV
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 05(AGRONOMY)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	AGRONOMY
Title of on-farm trial:	Assessment of Improved variety of sesame
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old variety
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old variety JT- 7
T2 –Recommended Practice-	Improved variety Jawahar Til- 12
T3- Recommended Practice-	Improved variety Jawahar Til- 14
Date of sowing:	05-07-2023
Date of harvesting:	10-10-2023
Source of technology:	RVSKVV, 2020
Characteristics of technology:	HYV
Name of Crop/Enterprises:	Sesame
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 06 (PLANT PROTECTION)

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 fungicide against neck blast in Rice
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to neck blast disease

Thematic area:	IPM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spraying of any fungicide
T2 –Recommended Practice-	Spraying of Pyraclostrobin 500ml/ha at 10% panicle initiation stage
T3- Recommended Practice-	Spraying of Isoprotholane 500ml/ha at 10% panicle initiation stage
Date of sowing:	10-07-2023
Date of harvesting:	20-11-2023
Source of technology:	RVSKVV, 2020
Characteristics of technology:	Control of neck blast disease
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 07(PLANT PROTECTION)

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 insecticide for management of girdle beetle in soybean
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Soybean about 30-40 % losses due to heavy infestation of girdle beetle
Thematic area:	IPM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Profenophos @ 1.5 lit /ha at 35 days after sowing
T2 –Recommended Practice-	Spraying of chlortriniliprole 9.3% + Lemdaclyothrin 4.6% @ 200ml/ha
T3- Recommended Practice-	Emamectin Benzoate 1.9% EC 425ml/ha
Date of sowing:	09-07-2023
Date of harvesting:	15-10-2023
Source of technology:	DSR, 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 08(AGRONOMY)

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 nano urea on growth and yield attributes of wheat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield (10%) of rice due to low Nitrogen use efficiency.
Thematic area:	INM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- unbalance use fertilizers
T2 –Recommended Practice-	T100% through Urea (120 kg N) +60 kg P Through SSP and40 Kg K Through MOP2
T3- Recommended Practice-	T3- 60kg P, 40kg K+ 50% through Urea as basal dose + Three foliar spray of Nano urea @ 2.0 ml/liter water at 25, 45 & 65 DAS
Date of sowing:	20-11-2023
Date of harvesting:	12-04-2024
Source of technology:	IFFCO, 2016
Characteristics of technology:	Nutrient management
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 09(AGRONOMY)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	AGRONOMY
Title of on-farm trial:	Assessment of improved variety of wheat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to lac of high yielding variety & technology.
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practices (Raj 4037)
T2 –Recommended Practice-	IV, Pusa Ujala (HI 1605)
T3- Recommended Practice-	IV, RAJ 4238
Date of sowing:	20-11-2023
Date of harvesting:	12-04-2024
Source of technology:	IARI, 2017
Characteristics of technology:	HYV

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

Detailed Information about OFT: 10(AGRONOMY)

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 weedicide in chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	low yield due to heavy weed infestation
Thematic area:	IWM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer Practice (No use of weedicide)
T2 –Recommended Practice-	PE of pendimethyline 30 EC @ 1 kg ai/ha
T3- Recommended Practice-	Topramezone 33.6 SC @ 25.2 g ai/ha @ 20-25 DAS
Date of sowing:	20-11-2023
Date of harvesting:	25-03-2024
Source of technology:	IGKVV,2021
Characteristics of technology:	Weed management
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 11(AGRONOMY)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	AGRONOMY
Title of on-farm trial:	Assessment of Improved variety of Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to sowing of old variety
Thematic area:	VE
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice (JAKI- 9218)
T2 –Recommended Practice-	Improved variety RVG 203
T3- Recommended Practice-	Improved variety RVG 204
Date of sowing:	20-11-2023

Date of harvesting:	25-03-2024
Source of technology:	RVSKVV, 2012
Characteristics of technology:	HYM
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 12(PLANT PROTECTION)

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 disease resistant variety of Coriander
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	low yield due to stem gall disease in coriander
Thematic area:	IDM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Susceptible variety CS- 6
T2 –Recommended Practice-	Disease resistant variety ACR-1
T3- Recommended Practice-	Disease resistant variety ACR-2
Date of sowing:	10-11-2023
Date of harvesting:	05-04-2024
Source of technology:	NRCSS, AJMER, 2014
Characteristics of technology:	Disease resistant variety
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT: 13(PLANT PROTECTION)

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 fungicide against purple blotch in garlic
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of garlic due purple blotch
Thematic area:	IDM
No of trials:	08
No. of farmers involved	08
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spraying of mancozeb 1kg/ha

T2 –Recommended Practice-	Azoxystrobin 18.2% + Difenocolozole 11.4%@ 1000ml/ha
T3- Recommended Practice-	Azoxystrobin 11% + Tebuconazole 18.3 SC @ 750ml/ha
Date of sowing:	20-11-2023
Date of harvesting:	15-04-2024
Source of technology:	CIB, 2022
Characteristics of technology:	Control of purple blotch
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

OFT- 01

Title	Assessment of knowledge & adoption of soil health card based fertilizer application
Season & Year	Round year
Problem identified	Poor knowledge about SHC recommendation
Thematic Area	SHC
Farming situation	Irrigated
Name of Technology Intervention under study	T1-Farmers are not using fertilizers as per SHC Recommendation T2:To find out the awareness, knowledge and adoption of farmers toward soil health card practices. ✓ To study the attitude of farmers towards soil health card practices. To study the Constraints perceived by the farmers in adoption of soil health card recommendation.
Farmers Practice	Farmers are not using fertilizers as per SHC Recommendation
No. of replication (Farmers)	100

Results / findings

Performance indicators/ parameters	Unit/ details
Age, Education, Family size, Social Participation, Extension Participation, Mass media Exposure, Land holding, Family Income, Herd Size & Feed back.	

OFT- 02

Title	Study on ICT Tools Mobile messaging, Social Media (WhatsApp) in dissemination of agricultural message on neck blast disease of Paddy
Season & Year	Round year
Problem identified	Delayed and lack of audio & visual based technical information dissemination on neck blast
Thematic Area	ICT
Farming situation	Irrigated
Name of Technology Intervention under study	Object- 1. To share agricultural techniques through message audio, video, photos etc. 2. To receive farmers problem through message audio, video, photo etc. To collect farmers feed back of neck blast disease on Paddy

Farmers Practice	-
No. of replication (Farmers)	100

Results / findings

Performance indicators/ parameters	Unit/ details
Perception, Knowledge, Extent of Utilization, Extent of Dissemination, Timeliness, Visibility of the content Applicability , Reliability and Creditability Feedback	

OFT- 03

Title	Assessment of Azolla as green fodder on milk production and conception rate in dairy Animal
Season & Year	Round year
Problem identified	Low milk production (18%) and conception rate (40%) in buffaloes due to unavailability of quality green fodder in lean period. Animal affected
Thematic Area	Feeding management
Farming situation	Irrigated
Name of Technology Intervention under study	T1 : Imbalance Concentrate feed + wheat straw + Grazing T2: Recommended dose of balance concentrate feed @ 1kg / 2.5 liter of milk production + Feeding of 1 kg Azolla on fresh basis per animal per day for Four month T3: Recommended dose of balance concentrate feed @ 1kg / 2.5 liter of milk production + Feeding of 1.5 kg Azolla on fresh basis per animal per day for Four month
Farmers Practice	Imbalance Concentrate feed + wheat straw + Grazing
No. of replication (Farmers)	08

Results / findings

Performance indicators/ parameters	Unit/ details
Milk yield, conception rate, net return (Rs/animal), B:C ratio	

OFT- 04

Title	Assessment of Bio-waste decomposer for quality organic product to enhance soil health
Season & Year	Round year
Problem identified	Deteriorating soil organic carbon content
Thematic Area	NRM
Farming situation	
Name of Technology Intervention under study	T:1 Dumping the farm waste and residue in pits exposed to extreme weather conditions T2 250 gm consortium sufficient to decompose 10,000 metric tonnes of waste in 30 days. 1. Mass Multiplication ▪ Mix 2 kg of jaggery in 200 liter of water in a container and stir well. ▪ Open the bottle and pour the contents of bottle into the solution (avoid direct contact of contents with hands) .

	Stir the contents of the container and cover it with a paper/cardboard etc and stir it daily once within 4 days the material is ready
Farmers Practice	No use of bio-waste decomposer
No. of replication (Farmers)	08

Results / findings

Performance indicators/ parameters	Unit/ details
Time taken for decomposition. Comparison of N.P.K and OC of FYM with that of decomposer by lab analysis B:C ratio and Feed back	

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	Black Gram	VE	Demonstration of Improved variety Sekhar – 2	Improved variety	Kharif 2023	4.00	10	No. of pods/ plant, yield q./ha, net return, B:C
2	Soybean	VE	Demonstration on Improved variety JS 20-69	Improved variety	Kharif 2023	4.00	10	No. of pods/ plant , No. of seed / plant , test weight (g), yield q/ha., net return, B:C
3	Soybean	IPM	Demonstration on Spraying of Thiachloprid 21.7% @ 750 ml/ha at 45 DAS	Insecticide	Kharif 2023	4.00	10	No. of infested plant/sqm, yield q./ha, net return, B:C
4	Rice	IPM	Demonstration on Spraying of dinotefuran@ 250g/ha	Insecticide	Kharif 2023	4.00	10	No of hoppers / hills, yield (q/ha), Net return, B:C
5	Mustard	IPM	Growing of mustard crop (false) 10 days before main crop +Seed treatment with Imidacloprid 48% 5ml/kg seeds	Insecticide	Rabi 2023-24	4.00	10	No of infested plant/sqm, yield q/ha, net return, B:C
6	Wheat	VE	Demonstration on Improved Variety Pusa Tejas (HI-8759)	Improved variety	Rabi 2023-24	4.00	10	No. of tillers/sqm, test weight, yield (q/ha) net return, B:C
7	Vermicompost	Income generation	Use of Eisenia fetidia spp. Of earth worm @ 2 kg for 3 q dry bio weight Ready within 90 days Recovery % 60-70 % Moisture content 30-35 %	Vermicompost	Round year	2.00	10	Production / unit area, Yield (q/ha), net return, B:C
8	Mal nutrition		Grow of nutrition kitchen garden in round the year of Nutrition kitchen garden	Minikit seed vegetable	Round year	1.2	30	Production / unit area, availability of nutrition vegetable

9	Animal		Bypass mineral supplementation Mineral Mixture @ 50gm/day/animal	Miniral mixer	Round year	-	10	Milk yield /animal/day , fat %, net return
NATURAL FARMING								
1	Soybean	Natural farming	Drench with 500 ltr of jivamrit through irrigation water and 1st spray at 21 DAS & than four spray at 15 days interval	Jeevamrit	Kharif 2023	4.00	10	No. of pods/plant, Yield q/ha and B:C Ratio
2	Soybean	Natural farming	Spraying of Agniastra @ 3% solution at 30 DAS and than need based application	Agniastra	Kharif 2023	4.00	10	No. of pods/plant, Yield q/ha and B:C Ratio
3	Mustard	Natural farming	Seed treatment with Beejamrit @10ml/kg seed	Beejamrit	Rabi 2023-24	4.00	10	No. of pods/plant, No. of grain/siliqua, Yield q/ha and B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	Sept. , Oct. Feb., march, June	400
2	Farmers Training	78	All month	1950
3	Media coverage	06	Sept. , Oct. Feb., march, June	Mass
4	Training for extension functionaries	08		240

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	Green gram	ICM	IV Virat (IPM405-7), seed + Seed treatment with Vitavax power 3g/kg seed + profenophos @ 1 l / ha.	Seed , Insecticide	Summer 2023	10.00	25	No. of pods /plant, test weight (g), yield q./ha. net return, B:C
2	Soybean		IV RVSM2011-35, seed + Seed treatment with Vitavax power 3g/kg seed + Chlroentraniliprol @ 100 ml / ha.	Seed, insecticide	Kharif 2023	20.00	50	No. of pods /plant, test weight (g), yield q./ha. net return, B:C
3	Chickpea		IV- RVG-202, seed + Seed treatment with thiram @ 3g/kg seed + Emamectin Benzoate @ 350g/ha	Seed, Insecticide	Rabi 2023-24	20.00	50	No. of pods/plant, test weight (g), yield (q/ha), net return, B:C
4	Mustard		Improved variety Girraj (IJ31) -2kg + Seed treatment (Imidacloprid 48% @ 5ml/kg seed) + Soil application of sulphar 20kg/ha + foliar spray of nutrient+ spraying of imidacloprid 17.8 SL@ 250 ml/ha	Seed , Fertilizer, Insecticide	Rabi 2023-24	20.00	50	No. of siliqua/plat , test weight , yield (q/ha), Net return, B:C

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	Sept., Oct. Feb. , March	400
2	Farmers Training	78	All months	1950
3	Media coverage	04	Quarter wise	Mass
4	Training for extension functionaries	08	Quarter wise	250

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
cultivation (Green Houses, Shade Net etc.)									
Total	02	02	20	10	30	15	15	30	60
b) Fruits									
Management of young plants/orchards	01	01	08	06	14	06	05	11	25
Total	01	01	08	06	14	06	05	11	25
c) Ornamental Plants	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
f) Spices									
Production and Management technology	02	02	20	10	30	15	15	30	60
Total	02	02	20	10	30	15	15	30	60
g) Medicinal and Aromatic Plants									
Production and management technology	02	02	20	10	30	15	15	30	60
Total	12	12	133	60	193	84	76	160	358
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	02	02	20	10	30	15	15	30	
Soil and Water Conservation	01	01	12	06	18	05	07	30	
Integrated Nutrient Management	02	02	15	15	30	10	20	30	
Production and use of organic inputs	02	02	15	15	30	10	20	30	
Management of Problematic soils	0	0	0	0	0	0	0	0	
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	
Soil and Water Testing	02	02	15	15	30	10	10	20	
Total	09	9	77	61	138	50	72	140	
IV Livestock Production and Management									
Dairy Management	01	01	20	10	30	05	05	10	
Poultry Management	01	01	20	10	30	05	05	10	
Disease Management	01	01	20	10	30	05	05	10	
Feed management	01	01	20	10	30	05	05	10	
Production of quality animal	01	01	20	10	30	05	05	10	

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Total	02	02	15	10	25	10	15	25	50	0	0
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0	0
Leadership development	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping	01	01	15	0	15	05	0	20	0	0	20
Seed production	01	01	15	0	15	05	0	20	0	0	20
Planting material production	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	01	01	15	0	15	05	0	20	0	0	20
Para extension workers	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	3	45	0	45	15	0	60	0	0	60
(C) Extension Personnel											
Productivity enhancement in field crops	01	01	15	10	25	0	0	0	0	0	0
Integrated Pest Management	01	01	10	10	20	05	0	0	05	25	0
Integrated Nutrient management	01	01	10	15	25	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	01	01	10	10	0	20	05	05	0	10	30
Livestock feed and fodder production	01	01	10	10	0	20	05	05	0	10	30

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0	0	0	0
TOTAL	05	5	55	55	70	45	10	10	5	45	60

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	02	02	15	10	25	10	15	25	50
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0
Cropping Systems	01	01	05	05	10	05	10	15	25
Crop Diversification	0	0	0	0	0	0	0		00
Integrated Farming	01	01	05	05	10	05	10	15	25
Water management	01	01	05	05	10	05	10	15	25
Seed production	01	01	05	05	10	05	10	15	25
Nursery management	01	01	05	05	10	05	10	15	25
Integrated Crop Management	01	01	05	05	10	05	10	15	25
Fodder production	01	01	05	05	10	05	10	15	25
Production of organic inputs	01	01	05	05	10	05	10	15	25
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	01	01	05	05	10	05	10	15	25
Export potential vegetables	01	01	05	05	10	05	10	15	25
Protective cultivation (Green Houses, Shade Net etc.)	01	01	05	05	10	05	10	15	25
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards	01	01	05	05	10	05	10	15	25
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0	0
Soil fertility	01	01	05	05	10	05	10	15	25

control agents and bio pesticides									
VIII Fisheries									
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0
Leadership development	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
(B) RURAL YOUTH	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
(C) Extension Personnel	0	0	0	0	0	0	0	0	0
TOTAL	6	6	40	40	80	30	40	70	150

1. On Campus

[illegible]

-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
April 2023	-	Importance of Summer deep ploughing	01	01	12	13	25	0	0	25
May 2023	-	Importance of Summer deep ploughing	01	01	12	13	25	0	0	25

..

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April 2023	-	Pro. & management tech. of summer moong	01	10	05	15	05	05	10	25
May 2023	-	Scientific tech. of grain storage	01	08	10	18	02	05	07	25
June 2023	-	Nursery management in rice crop	01	06	07	13	06	06	12	25
July 2023	-	Production and management tech. of soybean	01	10	05	15	05	05	10	25
August 2023	-	IWM in kharif crops	01	08	10	18	02	05	07	25
Sept. 2023	-	INM, management in kharif crops	01	06	07	13	06	06	12	25
October 2023	-	INM in rabi crops , production management tech .of Rabi crops	01	10	05	15	05	05	10	25
November 2023	-	IWM in Rabi crops	01	08	10	18	02	05	07	25
Dece. 2023	-	INM in Rabi crops	01	06	07	13	06	06	12	25
Jan. 2024	-	Frost management in rabi crops	01	10	05	15	05	05	10	25
Feb. 2024	-	Importance of natural farming	01	08	10	18	02	05	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	
March. 2024	-	Post harvest management in rabi crops	01	06	07	13	06	06	12	25
Horticulture-										
April 2023-	-	-	-	-	-	-	-	-	-	-
May 2023	-	Nursery management in onion crops	01	08	10	18	02	05	07	25
June 2023	-	Nursery management in chilli crops	01	06	07	13	06	06	12	25
July 2023	-	IWM in vegetable crops	01	10	05	15	05	05	10	25
August 2023	-	INM in vegetable crops	01	08	10	18	02	05	07	25
Sept. 2023	-	INM in potato	01	06	07	13	06	06	12	25
October 2023	-	Nursery management in onion crops	01	10	05	15	05	05	10	25
November 2023	-	Nursery management in chilli crops	01	08	10	18	02	05	07	25
Dece. 2023	-	IWM in vegetable crops	01	06	07	13	06	06	12	25
Jan. 2024	-	INM in vegetable crops	01	10	05	15	05	05	10	25
Feb. 2024	-	INM in potato	01	08	10	18	02	05	07	25
March. 2024	--	-	-	-	-	-	-	-	-	-
Livestock production	-									
April 2023	-	Care & management in milch animal	01	10	05	15	05	05	10	25
June 2023	-	Care & management in milch animal	01	06	07	13	06	06	12	25
August 2023	-	Care & management in milch animal	01	08	10	18	02	05	07	25
October 2023	-	Care & management in milch animal	01	10	05	15	05	05	10	25
Dece. 2023	-	Care & management in milch -	01	06	07	13	06	06	12	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		animal								
Home Science	-	-								
April 2023	-	Care & management in women and child	01	10	05	15	05	05	10	25
May 2023	-	Importance of mal nutrition	01	08	10	18	02	05	07	25
June 2023	-	Importance of kitchen gardening	01	06	07	13	06	06	12	25
July 2023	-	Care & management in women and child	01	10	05	15	05	05	10	25
August 2023	-	Importance of mal nutrition	01	08	10	18	02	05	07	25
Sept. 2023	-	Importance of kitchen gardening	01	06	07	13	06	06	12	25
October 2023	-	Care & management in women and child	01	10	05	15	05	05	10	25
November 2023	-	Importance of mal nutrition	01	08	10	18	02	05	07	25
Dece. 2023	-	Importance of kitchen gardening	01	06	07	13	06	06	12	25
Jan. 2024	-	Care & management in women and child	01	10	05	15	05	05	10	25
Feb. 2024	-	Importance of mal nutrition	01	08	10	18	02	05	07	25
March. 2024	-	Importance of kitchen gardening	01	06	07	13	06	06	12	25
Plant Protection	-									
April 2023	-	Scientific tech. of grain storage	01	10	05	15	05	05	10	25
May 2023	-	IPM in summer moong	01	08	10	18	02	05	07	25
June 2023	-	Importance of seed treatment in kharif crops	01	06	07	13	06	06	12	25
July 2023	-	IPM in Brijanl crops	01	10	05	15	05	05	10	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
August 2023	-	IPM in soybean kharif crops	01	08	10	18	02	05	07	25
Sept. 2023	-	IPM in cereal crops	01	06	07	13	06	06	12	25
October 2023	-	IPM in cotton	01	10	05	15	05	05	10	25
November 2023	-	IPM in rabi vegetable crops	01	08	10	18	02	05	07	25
Dece. 2023	-	IPM in rabi pulse crops	01	06	07	13	06	06	12	25
Jan. 2024	-	IPM in coriander crops	01	10	05	15	05	05	10	25
Feb. 2024	-	Termite management in cereal crops	01	08	10	18	02	05	07	25
March. 2024	-	Termite management in pulse crops	01	06	07	13	06	06	12	25
Agriculture Exte-nsion (Capacity Building and Group Dynamics)										
April 2023	-	Production & management tech. of fodder crops	01	10	05	15	05	05	10	25
May 2023	-	Importance of summer deep ploughing	01	08	10	18	02	05	07	25
June 2023	-	Importance of soil sampling	01	06	07	13	06	06	12	25
July 2023	-	Production & management tech. of fodder crops	01	10	05	15	05	05	10	25
August 2023	-		01	08	10	18	02	05	07	25
Sept. 2023	-	Production & management tech. of barseem	01	06	07	13	06	06	12	25
October 2023	-	Importance of IFS	01	10	05	15	05	05	10	25
November 2023	-	Production & management tech. of fodder crops	01	08	10	18	02	05	07	25
Dece. 2023	-		01	06	07	13	06	06	12	25
Jan. 2024	-		01	10	05	15	05	05	10	25
Feb. 2024	-	Production & management tech. of fodder crops	01	08	10	18	02	05	07	25
March. 2024	-		01	06	07	13	06	06	12	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Soil Science	-									
April 2023	-	Importance of summer deep ploughing	01	10	05	15	05	05	10	25
May 2023	-	Importance of soil sample	01	08	10	18	02	05	07	25

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June 2023		Production & management tech. of Kharif crop	01	10	05	15	10	0	10	25
Aug. 2023		Integrated weed management tech. of kharif crop	01	10	05	15	10	0	10	25
Horticulture										
June 2023		Nursery management tech. of vegetable crops	01	10	10	20	05	0	05	25
Livestock production										
June 2023		Fodder management tech of animal	01	10	05	15	10	0	10	25
Home Science										
July 2023		Importance of mal nutrition and kitchen gardening	01	10	05	15	10	0	10	25
Plant Protection										
Sept. 2023		Integrated pest management in kharif crops	01	10	05	15	10	0	10	25
Nov. 2023		Integrated pest management in Rabi crops	01	10	05	15	10	0	10	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
May 2023		Importance of summer deep ploughing	01	10	05	15	10	0	10	25

iii) Sponsored Training Programmes

S. No	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor in agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Vegetable grower	HOV	25 Days	RY	01	12	02	04	02	12	08	20	Skill India
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	08	150	50	200	12	08	20	220	180	400
Kisan Mela	02	320	180	500	22	5	27	342	185	527
Kisan Ghosthi	03	125	55	180	10	12	22	135	67	202
Exhibition	01	50	50	100	5	6	11	55	56	111
Film Show	02	80	20	100	5	6	11	85	26	111
Method Demonstrations	06	50	50	100	20	20	40	70	70	140
Farmers Seminar	03	100	100	200	20	20	40	120	120	240
Workshop	01	70	30	100	10	10	20	80	40	120
Group meetings	05	120	100	220	10	10	20	130	110	240
Lectures delivered as resource persons	12	50	50	100	20	20	40	70	70	140
Newspaper coverage	12	150	150	300	25	25	50	175	175	350
Radio talks	06	150	150	300	5	5	10	155	155	310
TV talks	06	120	120	240	10	10	20	130	130	260
Popular articles	12	300	200	500	15	15	30	315	215	530
Extension Literature	02	200	100	300	12	12	24	212	112	324
Advisory Services	22	200	300	500	50	60	110	250	360	610
Scientific visit to farmers field	89	350	150	500	25	25	50	375	175	550
Farmers visit to KVK	Mass	475	137	612	12	25	37	487	162	649
Diagnostic visits	24	120	140	260	25	26	51	145	166	311
Exposure visits	26	400	250	650	25	12	37	425	262	687
Ex-trainees Sammelan	06	150	150	300	25	25	50	175	175	350
Soil health Camp	03	150	150	300	5	5	10	155	155	310
Animal Health Camp	03	120	120	240	10	10	20	130	130	260
Agri mobile clinic	12	300	200	500	15	15	30	315	215	530
Soil test campaigns	03	200	100	300	12	12	24	212	112	324
Farm Science Club Conveners meet	02	150	150	300	25	25	50	175	175	350
Self Help Group Conveners meetings	02	150	150	300	5	5	10	155	155	310

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Mahila Mandals Conveners meetings	02	120	120	240	10	10	20	130	130	260
Celebration of important days (specify)	06	300	200	500	15	15	30	315	215	530
Others (pl. specify)	02	200	100	300	12	12	24	212	112	324
Total	694	5420	3822	9242	472	466	938	5950	4410	10360

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	Pusa Ujala (HI-1605)	100.00
OILSEEDS	Soybean	RVSM2011-35	80.00
PULSES	Chickpea	RVG 204	120.00

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya, Guava	Tiwan 786, Gwl-27, Ilahbadi Safeda	5000.00
SPICES			
VEGETABLES	Chilli, Tomato, Brinjal, Cabbage,		150000.00
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS	Drum stick	PKM-1, PKM-2	5000.00
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	-	-	500Qtl.
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl/Neemastra/Brahmastra	-	-	1000 ltr.
2				
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle/Cow	Cow	Gir	05	1500 ltr
SHEEP AND GOAT	Goat	Jamunapari	16	-
POULTRY	-	Kadaknath	50	5000 egg
FISHERIES	-	Rehu, Katla, Silvar	1500	3000kg
Others (Specify)				

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

Date of start	Periodicity	Number of copies to be published
01 Apr 2023	April to June 2023	500
01 July 2023	July to Sept. 2023	500
01 Oct. 2023	October to Dec. 2023	500
01 Jan. 2024	January to March 2024	500

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case: 05 (no.)

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Interface
2	Rural Youth	PRA
3	In-service personnel	Line dept.
4	methodology for identifying OFTs/FLDs	PRA and AES based
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)
01	Ichhapura	Sheopur	30 KM
02	Parond	Karhal	75 KM
03	Sehula	Vijaypur	160 KM

1. No. of farm families selected per village : 10

2. No. of survey/PRA to be conducted: 20

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment- 2016

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Soil testing kit	03	Serviceable

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	513	513	30	00.00
Water Samples	0	0	0	0
Total	513	513	30	00.00

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

Name of Programme	Nature of linkage
Training	Farmers need based
Field visit	Farmers need based
Workshop	Farmers need based
In-service	Farmers need based
Scientist –farmers instruction	Farmers need based
Diagnostic visit	Farmers need based

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
April	Natural farming Training , Awareness programme	200
May	Natural farming Training , Awareness programme	120
June	Natural farming Training , Awareness programme , ARYA- RY Training Proramme (Kadaknath Rearing)	125
July	Natural farming Training , Awareness programme	150
August	Natural farming Training , Awareness programme	150
Sept.	Natural farming Training , Awareness programme ARYA- RY Training Programme (Bee Keeping)	125
October	Natural farming Training , Awareness programme	250
Nove.	Natural farming Training , Awareness programme ARYA- RY Training Programme (Goat Rearing)	125
Dec.	Natural farming Training , Awareness programme	120
January	Natural farming Training , Awareness programme ARYA- RY Training Programme (Kadaknath Rearing)	125
February	Natural farming Training , Awareness programme	220
March	Natural farming Training , Awareness programme	180

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 750 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif 2023	RVSM 2011-35 ,JS 93-05, JS 20-29, JS 20-34, RVS 2001-4, JS-2069, NRC-86, RVS2002-4, RVS 18, RVS 2007-06	10 variety	200 Sqm
Green Gram		PKVAKM-4, Virat , Shikha, TM-37, JM-721, TM-50, MI-2491-01, TJM-3, Moong Ganga-8	07 variety	140 Sqm
Black Gram		PU-35, JU-86, TNAU-20, IU-486, RBU-38, RBU-466, indra uer01	10 variety	200 Sqm
Pearl millet		JBV-2, JBV-3, JBV-4, HHV-67, GHB-744	05 variety	100 Sqm
Sorghum		JJ938, JJ 1041, IMS-9A, IMS-9B, Indore-12	05 variety	100 Sqm
Maize		JM-08, JM-12, JM-216,PEMH-1,PEMH-2	05 variety	100 Sqm
Wheat -	Rabi 2023-24	GW-366,Pusa mangal,C-306 ,HD-2932,HI-8498 , HD 4676, HI 1531, HI 1500, Lok -1, HI 8691, HI 1454, HI 1544,	12 variety	144 Sqm
Gram-		JG-16, JG-412, JG-11, RVG 201,RVG 202,RVG 203,RVG 204	08 variety	96 Sqm
Mustard-		NRCHB-101, Girraj IJ 31, Jaikishan, Swarn joyoti,, Pusa sarso-24,Pusa sarso-25,	06 variety	72 Sqm
Linseed		Pratap Alsi-1, Pratap Alsi-2	02 variety	24 Sqm
Coriander		ACR-1, ACR-2, RKD 18, RCR-434	04 variety	48 Sqm
Fenugreek		RMT-35, RTM-305	04 variety	48 Sqm

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost	Vermi four pit	35 Sqm	500 Qtl.
Diary unit	Gir Breed Cow-03 Calf-05	650 Sqm	1825 Ltr
Goatary unit	Jamunapari breed -28	260 Sqm	Breed
Poultry unit	Kadakanath breed -200	220 Sqm	Egg, Cock & Chiks
Nursery unit	Seedling & Sapling	2000 Sqm	50000
Fisheries unit	Rohu, Katla, Silvar, Golden carp, Grass carf	2700 Sqm	5 Qtl.
Azola unit	Azola	25 Sqm	500 Qtl.
Nutritional kitchen garden unit	Kharif and Rabi vegetables	20 Sqm	-
Bee keeping unit	Apis melifera	10 Sqm	Honey 100kg
Organic product unit	Jeevamrit, Beejamrit	20 Sqm	10000 ltr

KVK SHIVPURI

Year of sanction:2003

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr Puneet Kumar	-	9425716695	rathorekvk@gmail.com , kvk.shivpuri@rvskvv.net

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 21.07

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2	Under Demonstration Units	1.00
3	Under Crops	13.00
4	Orchard/Agro-forestry	1.00
5	Others (Ponds, Nala, Roads and others)	5.57
Total		21.07

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2008	497.17				
2	Farmers Hostel	ICAR	2008	305.00				
3	Staff Quarters (6)	ICAR	2008	415.03				
4	Demonstration Units (2)	ICAR and ATMA	2016					
5	Fencing	RKVY	2014					
6	Rain Water harvesting system							
7	Threshing floor	ICAR-DSR Mau	2018					
8	Farm godown	NA						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (SAME)	2007	329250.00	5112	Poor
Motor Cycle MP33MD0579	2010	47539.00	76720	Poor
Bolero MP02AV7639	2021	777689.00	33997	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2020	47557.75	Good
Generator	2016	423493.00	Good

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

Sl. No.	Tentative Date
1	25.05.2023
2	21.09.2023

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1 Gird- Bundelkhand Zone	Soybean- wheat / Dairy / Goatry Groundnut- wheat / Dairy / Goatry Soybean- chick pea / Dairy / Goatry Pearl millet- wheat / Dairy / Goatry Tomato- wheat / Dairy / Goatry Soybean- Mustard / Dairy / Goatry

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Gird- Bundelkhand Zone	Medium black soil, red and yellow soil with slight undulation

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

Strength	Weakness	Opportunities	Threats
☐ Agroclimat suitable for many crops (field crops as well as Horticulture crops) - Major area belongs to medium black soil suitable for wheat, soybean, chickpea - Red- yellow soil covering about 30-40 % area suitable for groundnut and pearl millet - A considerable area is covered under horticultural crops like tomato, capsicum, pumpkin, guava etc. - Improved Desi cow breed “Gir” is found in some part in the district.	☐ Soil getting poor in organic carbon. - Underground water level getting down day by day. - Stray animals create problem in culti8vaed fields. - Farmers are ignorant and illiterate in majority. - Un awareness about nutrition of dairy animals. - More use of agro-chemicals for crop protection that may worsen the human health	☐ Food processing unit for vegetable and fruit crops to enhance the income and employment. - Opportunity to soil improvement through use of organic inputs and other measures. - Opportunity to introduce new improved crop varieties more resilient to climate change. - Opportunity to extension of new agro-technologies and to reduce technology gap. - Use of organic inputs for crop protection and natural farming. - Opportunity by adoption of new farm related enterprises.	☐ Underground water level getting down day by day - Soil organic carbon depletion. - Migration of rural youths towards urban area. - Mass movement of farmers towards more remunerative crops that may lead to decrease in crop diversity - Low crop production may happen due to non-use of agro-chemicals.

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	995.42
Forest	330.10
Waste Land	38.10
Other than cultivated area	60.5
Cultivable waste and alkaline land	74.10
Pastures	26.10
Bushes	3.90
Current Fallow	19.00
Other Fallow	9.50
Agricultural Land	465.39
Area Sown	462.43
Kharif	458.13
Rabi	448.00
Zaid	-
Cropping Intensity	152

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	24595
2	Well	86598
3	Tube well	26198
4	Ponds	3702
5	Others	24529

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Medium Black	Good water holding capacity and medium organic matter	283135
2	Red yellow soil	Poor water holding capacity and low organic matter	261976

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	55650	2420775	43.50
2	Sorghum	970	10185	10.50
3	Maize	5040	153720	30.50
4	Pearl Millet	6150	103320	16.80
5	Pigeon Pea	250	2770	11.08
6	Black Gram	69990	198071.7	2.83
7	Green Gram	1100	4345	3.95
8	Groundnut	120000	2496000	20.80
9	Sesame	6620	24163	3.65
10	Soybean	179960	1571051	8.73
Rabi				
1	Wheat	280000	11900000	42.50
2	Barley	2000	46200	23.10
3	Gram	88000	1416800	16.10
4	Lentil	30000	624000	20.80
5	Pea	2000	35600	17.80
6	Mustard	45000	787500	17.50
7	Linseed	500	7300	14.60
8	Sugarcane	500	215500	431.00

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	28.50	21.1	6.5
Feb, 22	0.00	26.2	8.9
Mar, 22	4.00	34.5	15.7
Apr, 22	0.00	36.4	20.1
May, 22	0.00	41.4	27.3
Jun, 22	125.00	39.2	26.9
July, 2022	239.50	33.2	25.0
Aug., 2022	349.50	30.6	24.1
Sept., 2022	259.00	31.6	23.7

Oct. 2022	90.00	31.5	20.2
Nov. 2022	0.00	28.3	14.2
Dec. 2022	0.00	25.0	8.8

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	528788	79318.2 MT.	5.75 kg
Buffalo	366222	67751.07 MT.	6.007 kg
Sheep			
<i>Crossbred/ Indigenous</i>	68179	 MT wool	 kg
Goats	313158	571.51 MT	18.25 kg
Pigs <i>Crossbred/ Indigenous</i>	10282	---	---
Rabbits			
Poultry			
Hens	136563	 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	17532.2 (ha)	2920 Q	12 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	Shivpuri	Shivpuri	Jhoond	Soybean, Groundnut, Black gram, Pearl millet, Wheat, Chick pea, Mustard, lentil, Tomato cucurbits, Dairy, Goatry	• Soil getting poor in organic carbon. • Underground water level getting down day by day. • Lack of knowledge of scientific livestock management • Low yield due to improper management in crops • Unawareness about use of farm implement • Low yield due to heavy infestation of weeds and pest • Unawareness about more farm related enterprises	• Crop diversification • ICM, • Climate resilient technology • Farm mechanization • VR • IWM • Soil and water conservation • Hi tech horticulture • IPM • Breed up-gradation of Dairy animals • Health and housing Management of dairy animals • Suitable use of available natural resources (Land and Water) • Farm mechanization,
2	Shivpuri	Shivpuri	Theh			
3	Karera	Karera	Khairaghat			
4	Karera	Karera	Kalothara			
5	Shivpuri	Shivpuri	Girmaura			
6	Kolaras	Kolaras	Padoda			
7	Pohari	Pohari	Rathkhera			
8	Karera	Karera	Jujhai			

Priority / Thrust areas

S. No.	Particulars
1.	Crop diversification, ICM, Climate resilient technology
2.	Farm mechanization, VR, INM, IWM
3	Soil and water conservation, Hi tech horticulture, NRM, VR, INM, IPM
4	Breed up-gradation of Dairy animals
5	Health and housing Management of dairy animals
6	Suitable use of available natural resources (Land and Water)

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	210	15	308

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
95	2375	29	1740

Seed Production (Qtl.)	Planting material (Nos.)
360	150250

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
1	IWM	Soybean	40-60 %Yield loss due to poor weed control	Assessment of herbicidal weed control in soybean	Demonstration of herbicidal weed control in rice	Integrated weed management in <i>kharif</i> oilseeds.		Field day/ Krishak Sangosthi	
		Chickpea	20-35 %Yield loss due to poor weed control in chickpea	Assessment of herbicidal weed control in chickpea	Weed management in wheat crop Metsulfuron methyl + Clodinafop (4g+60 g/ha) as POE at 28-30 DAS				
		Onion	40-45 %Yield loss due to poor weed control	Assessment of herbicidal weed control in Onion					
2	INM	Rice	Low NUE in NCU and higher cost of production		Demonstration of improved Variety RVJ 2357+ Balance plant Nutrition {80:40:20 N, P, K (kg/ha)	Integrated Nutrient Management			Nano urea, Seed
				Assessment of nano urea in rice crop	Demonstration of improved Variety RVJ 2357+ Balance plant Nutrition {80:40:20 N, P, K (kg/ha)				
3	Crop Diversification	Thyme	Low yield due to indeterminate variety	Refinement of suitable variety of Thyme (Ajwain)	Demonstration of Napier Bajra hybrid variety IGFRI- 6 under round the year green fodder production model				Seed
		Tomato			Demonstration				Seed

					ion of Inter-cropping of Tomato: Marigold (16: 1) and 2 rows maize planting in boundary of field. In Diversification and Profitable Model				
		Coriander			Demonstration of Coriander Production with improve variety ACr-2 under Crop Diversification	Coriander production technology			Seed
4	Decreasing organic carbon in soil	Groundnut	Maximization of production cost, health issue of soil and environment	Assessment of Groundnut production under Natural Farming	Demonstration of Onion Production Technology under Natural farming Situation			Field day/ Krishak Sangosthi	Seed and NF component inputs
		Mustard	Higher production cost, Deteriorating soil health and environment	Assessment of mustard production under Natural Farming					Seed and NF component inputs
		Wheat	Maximization of production cost, degraded health of soil and environment	Assessment of Wheat Production under Natural farming			Improved agronomic practice for wheat crop		Seed and NF component inputs
		Tomato	Low yield due to infestation of Pests in tomato	Assessment of Natural Farming based Plant Protection measures for Pest control in tomato through Agniastra.			Training on Pest Management in Tomato Crop under Natural Farming		NF component inputs
		Groundnut	Low yield due to infestation of Pests in Groundnut .	Assessment of Natural Farming based Control of Tikka disease and white grub in Groundnut through Brahmastra and Khatti Chhachh.		Improved production technology of Groundnut			NF component inputs
		Wheat	Low yield due to infestation	Assessment of Natural Farming based Control of Termite in Wheat crop			Training on Pest Management		NF component

			of Pests.	through Neemastra			nt in Vegetable Crops under Natural Farming		inputs
	IPM	Mustard	Low yield due to Sclerotinia stem Rot of Mustard	Assessment of Combination of Carbendazim + Mancozeb and Trichoderma in Stem Rot disease of Mustard					Pesticides
4	Lack of availability of Improved varieties	Soybean	Low yield due to use of old varieties	Assessment of medium duration soybean varieties under Soybean-Wheat cropping system	Demonstration of Mustard production technology			Field day/ Krishak Sangosthi	Seed
		Black gram	Low Yield due to use of old variety T-9	Assessment MYMV resistant variety of Black gram under Black gram-Mustard cropping system	Demonstration of pearl millet bio-fortified variety HHB-299 under nutrition sensitive agriculture				Seed
		Wheat	Low Yield due to use of old variety	Assessment bio-fortified varieties of wheat under Rice/Groundnut-Wheat cropping system	Demonstration of improved bio fortified variety of wheat HI-8759				Seed
		Mustard	Low Yield due to use of old variety of Mustard	Assessment of Improved high yielding variety of mustard					Seed
5	Lack of awareness of Farm Mechanization	Onion	Consumption of large amount seed and low yield due to moisture stress and water stagnation	Assessment of irrigation through Rain pipe in Onion	Reaper cum binder		Role of farm mechanization in different crop production		Rain pipe and Implement on rent
		Potato	low yield due to moisture stress and water scarcity	Assessment of Potato Planter	Plastic mulching	Plastic mulching system			Plastic mulch and Implement on rent
		Groundnut	Irrigation water scarcity	Assessment of raised bed planting method for groundnut	Raised Bed Planter				Implement on rent
		Brinjal	Low yield due to old practice	Assessment of Plastic mulching in Brinjal					Plastic mulch
6	Not suitable use of available water resources	Fish	Low yield due to improper size and stocking density of fish seed.	Assessment of effect of Quality fish seed stocking on fish production in fish culture pond.	Fishery				Fish Seed
		Fish	Low profit	Assessment of profitability					Fish

			due to adoption of single enterprise.	of different enterprises under pond based integrated farming system.					Seed
7	No proper use of available land resource	Turmeric	No use of land within plantation	Assessment of Turmeric based agroforestry		Preparation of Agro-forestry trees nursery	Agro-forestry Model for Shivpuri District		Seed
		Moringa	No use of bund	Assessment of High Yielding variety of Moringa on bunds		Drumstick on Farm Bunds			Plant
8	Lack of awareness about feed management				Demonstration on mineral mixture				Mineral Mixture
9	Integrated Crop Management	Black Gram	Indiscriminate use of Fertilizers and crop variety		Demonstration of production of Improved Variety of Blackgram Pratap Urd-1 under CFLD	Training on Black gram production technology		Field Day	Seed and pesticide
		Soybean			Demonstration of production technology of Improved Variety of soybean JS-2034 under Cluster demonstration	Training on Soybean production technology		Field Day	Seed and pesticide
		Lentil			Demonstration of production technology of Improved variety of lentil IPL-316 under CFLD	Training on Lentil production technology		Field Day	Seed and pesticide
		Mustard			Demonstration of production technology of Improved Variety of Mustard (DRMR IJ-31 Giriraj) under CFLD	Training on Mustard production technology		Field Day	Seed and pesticide

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
CP	1	3	1	2	1					8
VE	1	2	1							4
PP	1	2			1					4
AEG		1			3					4
AGF								1	1	2
TOTAL										22

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
LPM							0	0
FIS							2	2
TOTAL								

Crop / Enterprise	Fish	
Title of on farm trial	Assessment of effect of Quality fish seed stocking on fish production in fish culture pond.	
Problem diagnosed	Low yield due to improper size and stocking density of fish seed.	
Farmers' Practices	Improper size and very high stocking (>50000 seed /ha) of Fish seed	
Details of technologies selectedfor assessment	T ₁	Stocking of IMCs 8000 fingerlings /ha (C: R: M: : 4 : 3 : 3)
	T ₂	Stocking of IMCs + Grass carp 10000 fingerlings /ha (C: R: G : M : : 4 : 2 : 3 : 2)
Source of technology	CIFA, Bhubaneshwar	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	15500	
Critical input	10800	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-2

Crop / Enterprise	Fish	
Title of on farm trial	Assessment of profitability of different enterprises under pond based integrated farming system.	
Problem diagnosed	Low profit due to adoption of single enterprise.	
Farmers' Practices	Improper or No use of available resources	
Details of technologies selectedfor assessment	T ₁	Adoption of Poultry cum fish Integrated farming system (250 birds/ha fish pond)
	T ₂	-
Source of technology	CIFA, Bhubaneshwar	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	30000	
Critical input	20000	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation		

Detailed Information about OFT:

OFT-3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of herbicidal weed control in soybean
Year/Season:	Kharif 2023
Farming situation:	Rainfed Clay loam soil
Problem diagnosis:	40-60 %Yield loss due to poor weed control
Thematic area:	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-	One HW at 35-40 DAS
T2 –Recommended Practice-	Imazathpyr10% @ 100g/ha PoE at 20-25 DAS
T3- Recommended Practice-	Acefluorfen Sodium 16.5% + Clodinofof 8% @ 250g/ha PoE at 20-25 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-DWR, Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of nano urea in rice crop
Year/Season:	Kharif 2023
Farming situation:	Irrigated, Clay loam soil, Rice-Wheat system
Problem diagnosis:	Low NUE in NCU and higher cost of production
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-	NCU @125 kg/ha at 20 & 40 DAP
T2 –Recommended Practice-	Nano urea @1250 ml/ha at 20-25 DAP
T3- Recommended Practice-	Nano urea @ 1250 ml/ha at 20-25 & 40-45 DAP
Date of sowing:	
Date of harvesting:	
Source of technology:	IFFCO
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of herbicidal weed control in chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated, Clay loam / Sandy clay loam soils
Problem diagnosis:	20-35 %Yield loss due to poor weed control in chickpea
Thematic area:	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-	One HW at 35-40 DAS
T2 –Recommended Practice-	Pendimethalin @ 1.0Kg/ha PE 0-3 DAS
T3- Recommended Practice-	Topramazone 33.6 % SC @ 20.6g/ha PoE 20-25 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	IIPR, Kanpur
Characteristics of technology:	
Name of Crop/Enterprises:	Chick pea
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	

OFT-6

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of herbicidal weed control in Onion
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated, Clay loam / Sandy clay loam soils
Problem diagnosis:	40-45 %Yield loss due to poor weed control
Thematic area:	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-	One HW at 35-40 DAS
T2 –Recommended Practice-	Oxyfluorfen 23.5% EC @ 400g/ha PE + 1 HW at 30 DAP
T3- Recommended Practice-	Quizalofop ethyl 4% + Oxyfluorfen 6% EC @ 20.6g/ha PoE @ 100g/ha at 20-25 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-DWR, Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Groundnut production under Natural Farming
Year/Season:	Kharif 2023
Farming situation:	Irrigated and Sandy loam soils
Problem diagnosis:	Maximization of production cost, health issue of soil and environment
Thematic area:	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-	Use of DAP @100 kg/ha
T2 –Recommended Practice-	RDF (NPKS 25:50:30:25)
T3- Recommended Practice-	Use of Natural farming Components as per Schedule i.e, Ghanjivamrit, Bijamrit, Jivamrit and plant protection as per NF
Date of sowing:	
Date of harvesting:	
Source of technology:	Gurukul Kurukshetra, Haryana
Characteristics of technology:	

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

OFT-8

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Refinement of suitable variety of Thyme (Ajwain)
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to indiscriminate variety
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-	Use of indiscriminate cultivars
T2 –Recommended Practice-	Use of AA 1
T3- Recommended Practice-	Use of AA 93
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISSR, Ajmer
Characteristics of technology:	
Name of Crop/Enterprises:	Thyme
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-9

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of mustard production under Natural Farming
Year/Season:	Rabi 2023- 24
Farming situation:	Irrigated
Problem diagnosis:	Higher production cost, Deteriorating soil health and environment
Thematic area:	NF
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 100 kg of DAP in basal dose and top dressing of 60 kg Urea
T2 –Recommended Practice-	RDF (NPKS 80:50:30:20)
T3- Recommended Practice-	Use of Natural farming Components as per Schedule i.e. Bijamrit, Ghanjivamrit, Jivamrit and Plant Protection as per Natural Farming
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISSR, Ajmer

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

OFT-10

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Wheat Production under Natural farming
Year/Season:	Rabi 2023- 24
Farming situation:	Irrigated
Problem diagnosis:	Maximization of production cost, degraded health of soil and environment
Thematic area:	NF
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 of DAP and 75 kg/ha urea
T2 –Recommended Practice-	RDF (NPK 120:60:40)
T3- Recommended Practice-	Use of Natural farming Components as per Schedule i.e. Bijamrit, Ghanjivamrit, Jivamrit, and Plant Protection as per natural Farming
Date of sowing:	
Date of harvesting:	
Source of technology:	Gurukul Kurukshetra, Haryana
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-11

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Natural Farming based Plant Protection measures for Pest control in tomato through Agniastra.
Year/Season:	Kharif 2023
Farming situation:	Irrigated, Clay loam soil
Problem diagnosis:	Low yield due to infestation of Pests in tomato
Thematic area:	NF
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 High doses of chemical insecticides and fungicides.
T2 –Recommended Practice-	Carbendazim + Mecozeb @ 1250 g /500 lit of water/ha and Emamectin benzoate 5G 80 g/acre
T3- Recommended Practice-	Agniastra @ 12.5 liter/ 500 liter of water/ha and Khatti Chhachh @ 15 l/500liter of water/ ha

Date of sowing:	
Date of harvesting:	
Source of technology:	Gurukul Kurukshetra, Haryana
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Natural Farming based Control of Tikka disease and white grub in Groundnut through Brahmastra and Khatti Chhachh.
Year/Season:	Kharif 2023
Farming situation:	Irrigated, Clay-Laterite mixed soil
Problem diagnosis:	Low yield due to infestation of Pests in Groundnut.
Thematic area:	NF
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 High doses of chemical insecticides and fungicides.
T2 –Recommended Practice-	Carbendazim + Mecozeb @ 1250 g /500 lit of water/ha and Carbofuron @ 25 kg/ha
T3- Recommended Practice-	Use of Brahmastra @10-15 l/500 lit/ ha and Khatti Chhachh @ 15 l/500liter of water/ ha
Date of sowing:	
Date of harvesting:	
Source of technology:	Gurukul Kurukshetra, Haryana
Characteristics of technology:	
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Natural Farming based Control of Termite in Wheat crop through Neemastra
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated, Clay loam soil
Problem diagnosis:	Low yield due to infestation of Pests.
Thematic area:	NF
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 insecticide

T2 –Recommended Practice-	Use of Chlorpyriphos @ 25 kg/ha
T3- Recommended Practice-	Use of Neemastra @ 500 l/ha and Use of Agniastra @ 10-15 l/500 l of water/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	Gurukul Kurukshetra, Haryana
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-14

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 Combination of Carbendazim + Mancozeb and Trichoderma in Stem Rot disease of Mustard
Year/Season:	Rabi 2023 - 24
Farming situation:	Irrigated, Clay loam soil
Problem diagnosis:	Low yield due to Sclerotinia stem Rot of Mustard
Thematic area:	NF
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 Fungicide bio agent
T2 –Recommended Practice-	Use of Combination of Carbendazim + Mancozeb @ 3g/kg seed treatment
T3- Recommended Practice-	Use of Trichoderma @ 1 kg/ acre/ 50 kg FYM as basal dose + Seed treatment with Combination of Carbendazim + Mancozeb @ 3g/kg seed treatment and no irrigation between 25 Dec to 15 Jan
Date of sowing:	
Date of harvesting:	
Source of technology:	NCIPM-ICAR
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-15

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Breeding
Title of on-farm trial:	<i>Assessment of medium duration soybean varieties under Soybean-Wheat cropping system</i>
Year/Season:	Kharif 2023
Farming situation:	Irrigated, clay loam, Cropping pattern paddy-Wheat
Problem diagnosis:	Low yield due to use of old varieties
Thematic area:	VE
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-	<i>JS 9305</i>
T2 –Recommended Practice-	RVS 2001-4 (maturity92 days, Yield 2200 kg/ha, Multiple disease resistance)
T3- Recommended Practice-	JS 20-69 (maturity 93 days, Yield 2500 kg/ha, Multiple disease resistance)
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV & RVSKVV 2014
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-16

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Breeding
Title of on-farm trial:	<i>Assessment MYMV resistant variety of Black gram under Black gram-Mustard cropping system</i>
Year/Season:	Kharif 2023
Farming situation:	Semi-irrigated
Problem diagnosis:	Low Yield due to use of old variety T-9
Thematic area:	VE
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-	<i>Local Variety (T-9)</i>
T2 –Recommended Practice-	Pratap Urd-1 (maturity 75days, Yield 1100 kg/ha, Multiple disease resistance)
T3- Recommended Practice-	Indira Urd-1 (maturity 75days, Yield 1250 kg/ha, suitable for Kharif and Summer both)
Date of sowing:	
Date of harvesting:	
Source of technology:	RRS and IGAU 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Black Gram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-17

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Breeding
Title of on-farm trial:	<i>Assessment bio-fortified varieties of wheat under Rice/Groundnut-Wheat cropping system</i>
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to use of old variety

Thematic area:	VE
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-	<i>MP-4010/Lok 1</i>
T2 –Recommended Practice-	MP -3382 (maturity119 days, Yield 5975 kg/ha, bold seed and Biofortified)
T3- Recommended Practice-	HI 8759 (Pusa Tejas) (maturity120 days, Yield 7000 kg/ha, bold seed and Biofortified)
Date of sowing:	
Date of harvesting:	
Source of technology:	JNKVV-2016 and IARI 2016
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-18

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Breeding
Title of on-farm trial:	<i>Assessment of Improved high yielding variety of mustard</i>
Year/Season:	Rabi 2023-24
Farming situation:	Semi-Irrigated
Problem diagnosis:	Low Yield due to use of old variety of Mustard
Thematic area:	VE
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-	<i>Local (Kranti/Varuna/Pusa Bold)</i>
T2 –Recommended Practice-	Radhika (maturity131 days, Yield 1788 kg/ha, Oil % 40.70)
T3- Recommended Practice-	Brijraj (maturity132 days, Yield 1733 kg/ha, Oil % 39.9
Date of sowing:	
Date of harvesting:	
Source of technology:	DRMR, Bharatpur 2021
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-19

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	<i>Assessment of raised bed planting method for groundnut</i>
Year/Season:	Kharif 2023
Farming situation:	Rainfed

Problem diagnosis:	Consumption of large amount seed and low yield due to moisture stress and water stagnation
Thematic area:	AEG
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-	<i>Closer line sowing (22cm)</i>
T2 –Recommended Practice-	Line sowing (30 cm)
T3- Recommended Practice-	Raised bed planting system (rows 30 cm apart)
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-CIAE, Bhopal
Characteristics of technology:	
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-20

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	<i>Assessment of Plastic mulching in Brinjal</i>
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	low yield due to moisture stress and water scarcity
Thematic area:	AEG
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-	<i>Line to line planting without raised bed and mulching</i>
T2 –Recommended Practice-	Line to line planting with raised bed and drip irrigation system
T3- Recommended Practice-	Line to line planting with raised bed and mulching
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-CIAE, Bhopal
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-21

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	<i>Assessment of irrigation through Rain pipe in Onion</i>
Year/Season:	Rabi 2023-24

Farming situation:	Irrigated
Problem diagnosis:	Irrigation water scarcity
Thematic area:	AEG
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-	<i>Flood Irrigation</i>
T2 –Recommended Practice-	Rain pipe system
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	ACRI Tamil Nādu
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-22

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agriculture Engineering
Title of on-farm trial:	<i>Assessment of Potato Planter</i>
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to old practice
Thematic area:	AEG
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-	<i>Line sowing 30 cm</i>
T2 –Recommended Practice-	Potato Planter 45 cm
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-CIAE, Bhopal
Characteristics of technology:	
Name of Crop/Enterprises:	Potato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-23

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:	<i>Assessment of Turmeric based agroforestry</i>

Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	No use of land within plantation
Thematic area:	AGF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	<i>Only Plantation (Guava)</i>
T2 –Recommended Practice-	Plantation (Guava) with Turmeric
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	TNAU 2014
Characteristics of technology:	
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-24

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:	<i>Assessment of High Yielding variety of Moringa on bunds</i>
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	No use of bund
Thematic area:	AGF
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	<i>Sole crop</i>
T2 –Recommended Practice-	Moringa on bunds + Crop in Fields
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	TNAU 2011
Characteristics of technology:	
Name of Crop/Enterprises:	Moringa
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

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

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	CP	Demonstration of herbicidal weed control in rice	Bispyribac Sodium 10 EC@ 0.025 kg/ha at 25 DAT	Kharif 2023	2.00	10	Weed count (No. of weeds/m ²)
2	Wheat	CP	ZT planting of wheat after one pre sowing irrigation after removal of rice residues	Sowing with Zero till drill by custom haring	Rabi 2023-24	2.0	10	Germination %, Cost reduce and yield
3	Wheat	CP	Weed management in wheat crop Metsulfuron methyl + Clodinafop (4g+60 g/ha) as POE at 28-30 DAS	Herbicide	Rabi 2023-24	2.0	10	Weed count (No. of weeds/m ²)
4	Sorghum	CP	Demonstration of improved Variety RVJ 2357+ Balance plant Nutrition {80:40:20 N, P, K (kg/ha)	Seed	Kharif 2023	2.0	10	Cob weight (g), Yield and Yield attributes
5	N-B Hybrid	CP	Demonstration of Napier Bajra hybrid variety IGFRI- 6 under round the year green fodder production model	Rooted slips	2023-24	2.0	10	Days of green fodder availability, No of cutting in a year and total fodder and forage yield (q/ha)
6	Marigold	CP	Demonstration of Inter-cropping of Tomato: Marigold (16: 1) and 2 rows maize planting in boundary of field. In Diversification and Profitable Model	Seed/Seedlings	Kharif 2023	2.0	10	Cost reduce, Income increase and pest control, Fruit and flowers quality, Yield
7	Onion	NF	Demonstration of Onion Production Technology under Natural farming Situation	Seedling + Ghanjeevmrit + Jeevamrit + Agniastra/Neemastra	Rabi 2023- 24	1.60	08	Soil parameters Before sowing and after harvesting, Yield and Yield attributes
8	Coriander	CP	Demonstration of Coriander Production with improve variety ACr-2 under Crop Diversification	Seed with improved variety	Rabi 2023-24	2.0	10	Yield and yield attributes
9	Pearl Millet	CP	Demonstration of pearl millet bio-fortified variety HHB-299 under nutrition sensitive agriculture	Seed	Kharif 2023	2.0	10	Cob weight (g), Yield and Yield attributes
10	Wheat	CP	Demonstration of improved bio fortified variety of wheat HI-8759	Seed	Rabi 2023-24	2.0	10	Tillers/plant, Grain yield (g/1000), Yield and Yield attributes
11	Mustard	CP	Demonstration of Mustard production technology	Seed and Input production equipment	Rabi 2023-24	2.0	10	Branches/ plant, Plant Height, silliqua/plant, Yield, Yield attributes and Economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	18	September, January and February	900
2	Farmers Training	38	June. July August, October, November, December	375
3	Media coverage	15	September, January and February	-
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
Reaper cum binder	Wheat	Rabi 2023-24	05	2.0	Equipment on Hire base	Field capacity (ha/hr), Man-hrs saving, Time saving		
Plastic mulching	Tomato	Rabi 2023-24	05	2.0	Plastic Mulching	Water use for irrigation, Labour, Saving of Water, Cost and Labour/ha		
Raised Bed Planter	Soybean	Kharif 2023	05	2.0	Equipment on Hire base	Rain Water Use Efficiency, Yield and Yield attributes		

*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	Based on Availability	05	05	Mineral Mixture	Milk yield (l/laction)		

*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
Fishery	IMCs	03	03	Fish Seed	Fish Yield (kg/ha), Growth rate (%)		

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Black gram	ICM	Demonstration of production of Improved Variety of Blackgram Pratap Urd-1 under CFLD	Seed + Trichoderma + Insecticide	Kharif 2023	20.00	50	Pods/plant, Grain yield (g/1000)
2	Soybean	ICM	Demonstration of production technology of Improved Variety of soybean JS-2034 under Cluster demonstration	Seed+ Trichoderma	Kharif 2023	20.0	50	Pods/plant, Grain yield (g/100), Yield and Yield attributes
3	Lentil	ICM	Demonstration of production technology of Improved variety of lentil IPL-316 under CFLD	Seed + Trichoderma	Rabi 2023-24	20.0	50	Pods/plant, Grain yield (g/100), Yield and Yield attributes
4	Mustard	ICM	Demonstration of production technology of Improved Variety of Mustard (DRMR IJ-31 Giriraj) under CFLD	Seed + Trichoderma	Rabi 2023-24	20.0	50	Pods/plant, Grain yield (g/100), Yield and Yield attributes

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	September and February	240
2	Farmers Training	08	June, July August, October, November, December	200
3	Media coverage	04	September, January and February	-
4	Training for extension functionaries	02	August December	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

[illegible]

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 to September	Farmers/ Farm women	Integrated weed management in <i>kharif</i> oilseeds.	01							
June to September	Farmers/ Farm women	Improved Agronomical practices for higher black gram production.	01							
June to September	Farmers/ Farm women	Direct seeded rice production technology	01							
October to December	Farmers/ Farm women	Improved agronomical practice of Gram	01							
October to December	Farmers/ Farm women	Zero till cultivation of wheat	01							
October to December	Farmers/ Farm women	Organic weed management in field and vegetable crops crops	01							
June to September	Farmers/ Farm women	Weed management in Rice crops	01							
October to December	Farmers/ Farm women	Weed management in wheat crop	01							
October to December	Farmers/ Farm women	Irrigation water management in wheat crop	01							
October to December	Farmers/ Farm women	Irrigation water management in Rabi oilseeds crop	01							
October to December	Farmers/ Farm women	Agricultural Land use planning under Natural farming	01							
June to September	Farmers/ Farm women	Enhancement in soybean production in aberrated climate regime	01							
June to September	Farmers/ Farm women	Weed management in Organic and natural farming System	01							
October to December	Farmers/ Farm women	Allelopathic and Biological alternatives for pest control in tomato crop	01							
October to	Farmers/	Parthenium	01							

December	Farm women	Problem and its management								
June to September	Farmers/ Farm women	Production technology of millets	01							
June to September	Farmers/ Farm women	Improved production technology of Groundnut	01							
June to September	Farmers/ Farm women	Management of B-N Hybrid grass	01							
Horticulture										
Livestock production										
April	Farmers/ Farm women	Poultry farming	01							
September	Farmers/ Farm women	Goat rearing	01							
Fisheries										
November	Farmers/ Farm women	Farm based fish feed preparation technology	01							
December	Farmers/ Farm women	Feeding management in Composite fish farming	01							
Home Science										
Plant Protection										
March	Farmers/ Farm women	Preparation of Agniastra	01							
April	Farmers/ Farm women	Preparation of Neemastra	01							
January	Farmers/ Farm women	Preparation of Brahmastra	01							
July	Farmers/ Farm women	Training on Pest Management in Groundnut crops under Natural Farming	01							
September	Farmers/ Farm women	IPM in Mustard	01							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Agriculture Engineering										
June	Farmers/ Farm women	Post-Harvest Technology	01							
October	Farmers/ Farm women	Potato Planter/ Raised bed Planter/Groundnut planter	01							
Agroforestry										
June	Farmers/ Farm women	Raising of Nursery (Agro-forestry)	01							
August	Farmers/	Suitable Agro-	01							

	Farm women	forestry model for Shivpuri district								
July	Farmers/ Farm women	Bamboo based Agro-forestry system	01							
May	Farmers/ Farm women	Value of agroforestry in soil conservation	01							

2. Off Campus

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Fisheries										
May	Farmers/ Farm women	Composite fish culture technology for income generation	01							
June	Farmers/ Farm women	Use of biological manures in composite fish farming	01							
July	Farmers/ Farm women	Different fish farming systems	01							
Home Science										
Plant Protection										
July	Farmers/ Farm women	Training on Pest Management in soybean	01							
August	Farmers/ Farm women	Control of White grub and Tikka disease by Brahmastra/ Agniastra	01							
June	Farmers/ Farm women	Training on Pest Management in Cucurbitaceae crops under Natural Farming	01							
October	Farmers/ Farm women	IPM in Fruits crops	01							
February	Farmers/ Farm women	IPM in Onion and Garlic	01							
September	Farmers/ Farm women	IPM in Paddy	01							
October	Farmers/ Farm women	IDM in Mustard	01							
November	Farmers/ Farm women	IPM in Gram	01							
December	Farmers/ Farm women	Training on Rodent control	01							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Agriculture Engineering										
May	Farmers/ Farm women	Farm machinery & its maintenance	01							
June to September	Farmers/ Farm women	Installation and maintenance of micro irrigation systems	01							
April	Farmers/ Farm women	Plastic Munching System	01							
October to January	Farmers/ Farm women	Repair and maintenance of farm machinery and implements	01							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
December	Farmers/ Farm women	Small scale processing and value addition	01							
Agroforestry										
September	Farmers/ Farm women	Drumstick on Farm Bunds	01							
March	Farmers/ Farm women	Rejuvenation of Ber Trees	01							
April	Farmers/ Farm women	Rejuvenation of Old Guava Orchard	01							
May	Farmers/ Farm women	Preparation of Agro-forestry trees nursery	01							

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
	Rural Youth	Technological Intervention in Rural migration for Stable Livelihood	01							
	Rural Youth	Fodder Crops Seed Production Technology	01							
	Rural Youth	IFS can Improve Livelihood security of Rural Poor	01							
	Rural Youth	Self-employment through Nursery Management	05							
	Rural Youth	Vermicomposting for its quality Maintenance	03							
	Rural Youth	Seed production Technology of Kharif crops	05							
	Rural Youth	Seed production Technology of Rabi crops	05							
Horticulture										
Livestock production										
September	Rural Youth	Kadaknath rearing	03							
Fisheries										
April	Rural Youth	Fish production technology	03							
December	Rural Youth	Income generation through Different Fisheries technologies	05							
Home Science										
Plant Protection										
October	Rural Youths	Training on Mushroom Production	04							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Technology								
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Agriculture Engineering										
April	Rural Youths	Processing of Different crops	05							
October	Rural Youths	Processing of vegetable crops	05							
December	Rural Youths	Tomato processing	05							
Agroforestry										
May	Rural Youths	Soil and water Conservation through Plantation	02							
June	Rural Youths	Waste Land management through Plantation	02							
December	Rural Youths	Multi-Layer Farming system	02							

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										
October	Line Deptt functionaries	Improved agronomical practice for wheat crop	01							
July	Line Deptt functionaries	Production Technology of Millet crops	01							
June	Line Deptt functionaries	Natural resource Management in relation to crops production under natural farming	01							
December	Line Deptt functionaries	Need of cropping system-based approach of agro- technology for higher productivity, profitability and soil health	01							
April	Line Deptt functionaries	Signification of soil biota in Natural Farming	01							
May	Line Deptt functionaries	Effectiveness of cropping system in mitigation of Climate Change	01							
Horticulture										
Livestock production										
Home Science										
Plant Protection										
June	Line Deptt functionaries	Training on Pest Management in Tomato Crop under Natural Farming	01							
October	Line Deptt functionaries	Training on Pest Management in Vegetable Crops under Natural Farming	01							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Agriculture Engineering										
November	Line Deptt functionaries	Role of farm mechanization in different crop production	01							
Agroforestry										
April	Line Deptt functionaries	Agro-forestry Model for Shivpuri District	01							
November	Line Deptt functionaries	Wind Break and Shelter Management	01							

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	0	0	0
OILSEEDS	Soybean	JS-20-34	195
PULSES	Chick pea	RVG-204	165
VEGETABLES	0	0	0
FLOWER CROPS	0	0	0
OTHERS (Specify)	0	0	0

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	Gwalior-27	250
SPICES	0	0	0
VEGETABLES	Tomato	Improved Variety/ Hybrid	100000
FOREST SPECIES	0	0	0
ORNAMENTAL CROPS	0	0	0
PLANTATION CROPS	0	0	0
Others (Fodder)	Fodder	N-B Hybrid	50000 slips

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	0	0	0
2	Rhizobium	0	0	0
3				
BIOFERTILIZERS				
1	Vermicompost	0	0	15000
2	NADEP	0	0	0
3				
BIO PESTICIDES				
1	Dasparni arkl	0	0	0
2	Pesticides	0	0	0
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milching	Gir	02	-
SHEEP AND GOAT	-	Bundelkhndi	04	-
POULTRY	Egg and Meat	Kadaknath		125
FISHERIES	Fish	IMCs	-	100
Others (Specify)				

Literature to be Developed/Published

KVK Nws Letter

Date of start	Periodicity	Number of copies to be published
Jan 2023	Quarterly	500

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case: 02 (no.)**Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)**

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

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Jhoond	Shivpuri	14
2	Theh	Shivpuri	13
3	Khairaghat	Karera	55
4	Kalothara	Karera	50
5	Girmaura	Shivpuri	12
6	Padoda	Kolaras	24
7	Rathkhera	Pohari	60
8	Jujhai	Karera	55
9	Berasia	Kolaras	45
10	Rampur	Kolaras	48

1. No. of farm families selected per village : 06
2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipment 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	200	200	20	
Water Samples	0	0	0	
Total	200	200	20	

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
District Agriculture Deptt	Training and Extension activities
District Horticulture Deptt	Training and Extension activities
District Veterinary Deptt	Training and Extension activities
District Fisheries Deptt	Training and Extension activities
ATMA	Training and Extension activities

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
ATMA	Training and Extension activities

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
January	Promotion of Natural farming and Millets	F/FW/RY/IS	2.00
February	Promotion of Natural farming and Millets	F/FW/RY	2.00
March	Promotion of Natural farming and Millets	F/FW/RY	2.00
April	Promotion of Natural farming and Millets	F/FW/RY	2.00
May	Promotion of Natural farming and Millets	F/FW/RY	2.00
June	Promotion of Natural farming and Millets	F/FW/RY/IS	2.00
July	Promotion of Natural farming and Millets	F/FW/RY	2.00
August	Promotion of Natural farming and Millets	F/FW/RY	2.00
September	Promotion of Natural farming and Millets	F/FW/RY	2.00
October	Promotion of Natural farming and Millets	F/FW/RY/IS	2.00
November	Promotion of Natural farming and Millets	F/FW/RY	2.00
December	Promotion of Natural farming and Millets	F/FW/RY	2.00

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 2000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Millets	Kharif	Millets crop	Rich source of nutrients	2000
Soybean	Kharif	8-10	Short and Medium duration	
Groundnut	Kharif	8-10	Bunch/Semi spread and spread types	
Black gram	Kharif	5-6	Improved and YMY resistant	
Green Gram	Kharif	5-6	Improved and YMY resistant	
Sesame	Kharif	8-10	Improved varieties	
Tomato	Kharif	5-6	Long keeping/Processing varieties	
Fodder/ Forage	Kharif	4-5	Improved and rich source of nutrients	
Mustard	Rabi	5-6	Improved var. high oil and short duration	2000
Lentil	Rabi	5-6	Wilt disease resistant	
Chickpea	Rabi	8-10	Wilt and root diseases resistant	
Wheat	Rabi	8-10	Short and Medium duration	
Coriander	Rabi	3-4	Short and Medium duration	
Thyme	Rabi	3-4	Demonstration In rabi 2023-24	
Fodder/ Forage	Rabi	4-5	Improved and rich source of nutrients	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Rain water harvesting Pond	Harvested rainwater for irrigation of field crops	15000	90000 m ³ Irrigation water
Dairy	Gir Breed 02 Adults	300	Natural Farming
Goatry	Bundelkhandi Breed	250	04 kids
Poultry	Desi breed/ Kadaknath	100	1500 kg meat
Fish Culture pond	IMCs	4000	-
Vermi Compost Production	Vermi Compost	500	300 q
Round the Year Green Fodder Production Unit	Napier-Bajra Hybrid (IGFRI 6 and TSH)	1000	50000 Slips
Guava Orchard	Gwalior-27	2000	250 Plants
Polyhouse	Vegetable seedlings	560	50000
Shed Net House	Vegetable seedlings	980	50000
Natural Farming Unit	Ghanjiwamrit, BeejamritJ, Jeevamrit and all plant protection products	35	Jeevamrit 1000 Lit. Beejamrit 100 Lit

ANNUAL ACTION PLAN 2023

KVK Ujjain

Year of sanction:....2004.....

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.P.Sharma	0734-2922071	9754032456	kvk.ujjain@rvskv.net

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (₹)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. R. P. Sharma	Principal Scientist & Head	Agricultural Extension	144200-218200 Basic: 205600/-	19-Mar-1986	2017	97540-32456	rpkvkdewas@gmail.com	
2	Subject Matter Specialist	Dr. S.K. Kaushik	Sr. Scientist	Plant Breeding & Genetics	131400-217100 Level 13A 143600/-	8-Mar-2007	2007	70001-08925	kaushik.surendra@rediffmail.com	
3	Subject Matter Specialist	Dr. D.S. Tomar	Sr. Scientist	Agronomy	131400-217100 Level13A 147900/- 143600/-	28-Mar-2007	2007	94259-35337	tomardivakar66@gmail.com	
4	Subject Matter Specialist	Dr. Rekha Tiwari	Sr. Scientist	Home Science	131400-217100 Level13A 143600/-	8-Feb-2007	2007	94254-90471	rekhaup_2007@rediffmail.com	
5	Subject Matter Specialist	Sh.D.K.Suryawanshi	Scientist	Plant Protection (Entomology)	79800 – 211500 Level-12 92500/-	1-Feb-2007	2017	90984-53633	dksuryawanshi2008@gmail.com	
6	Subject Matter Specialist	Sh.H.R.Jatav	Scientist	Agricultural Extension	57700-182400 70900/-	1-Sep-2014	2014	96179-71951	raj.hans14@gmail.com	
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Dr. Moni Singh	Asst.Chief. Technical Officer	Home Science	67300-206900 73500/-	14-Mar-2007	2019	98270-94417	m_jadon@rediffmail.com	
9	Computer Programmer/ Programme Assistant	Mrs. Ghazala Khan	Sr. Technical Officer	Computer Science	56100-177500 71100/-	1-Apr-2008	2008	99934-46765	g_khn2004@yahoo.com	

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (₹)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
10	Farm Manager	Sh. Rajendra Gawali	Sr. Technical Officer	Soil Science and Agricultural Chemistry	56100-177500 62200/-	28-Feb-2011	2011	99774-50664	rgawli8@gmail.com	
11	Assistant	Sh. Ajay Gupta	Office Superintendent cum accountant		36200-114800 43300/-	19-Dec-2016	2016	9827211091	gupta_ajay79@yahoo.com	
12	Jr. Stenographer cum Comp. Operator	Mrs. Sapna Singh	Stenographer cum computer operator		28700-91300 34300/-	26-Aug-2016	2019	97134-19201	ssapna_singh2007@rediffmail.com	
13	Driver	Sh. Rajesh Verma	Driver cum mechanic		25300-80500 32100/-	11-Jul-2008	2008	74407-47650		
14	Driver	Sh. Babulal Chouhan	Driver cum mechanic		25300-80500 32100/-	11-Jul-2008	2021	96171-51284		
15	Supporting staff									
16	Supporting staff									

1.3 Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.25
2	Under Demonstration Units (Crop Cafeteria)	0.2
3	Under Crops	17.34
4	Orchard/Agro-forestry	0.80
5	Others (IFS)	0.10
Total		19.69

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	20-02-2007	390.48+*4.45	3170000			
2	Farmers Hostel	ICAR		321				
3	Staff Quarters (6)	ICAR		403				
4	Demonstration Units (2)	ICAR		1000				
5	Fencing	ICAR						
6	Rain Water harvesting system	ICAR		550				
7	Threshing floor	ICAR	April 2007	228	200000			
8	Farm godown	ICAR						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2005	5.50		
Motor Cycle 2	2005	0.30		Serviceable
Bolero(Jeep)	2018	5.93		Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2011	63375	Good
Projector	2020	47295	Good
Xerox Machine	2008	56400	Not Working
Generator	0	0	0
Video Camera(Handy Cam)	2005	24240	Good
Digital Camera	2017	25757	Good
Computer	2007	37343	Not Working
Computer	2016	46700	Good
Laser Printer (HP MFP LJ 3030)	2005	25500	Not Working
Laser Printer (HP Laserjet 1020)	2007	6695	Good
Laser Printer (HP MFP M1005)	2017	14500	Good
Laser Printer (HP MFP M1005)	2018	14999	Good
Laser Printer (Canon 2900)	2017	8100	Good
Laser Printer (HP Laserjet Pro M104w)	2018	8999	Good
Color Inkjet(EPSON C3115)	2020	10400	Good
UPS 600 VA	-	-	-
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	-	-	-
Inverter Battery (2)	2019	5850	Good
Laptop	2007		Non-Working
Laptop	2011	40000	Working
Laptop	2021	72000	Excellent
Laptop	2022	49950	Good
Desktop Computer	2021	59790	Excellent
Desktop Computer	2022	59790	Excellent

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

Sl. No.	Tentative Date
1	June 23
2	October 23

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1	
2	AES – 2	Dairy, Poultry, crop residue management, food processing and drone technology
3	AES – 3	
4		
5		
6		

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Heavy Black Soil	
2	AES – 2 Medium Black Soil	Low infiltration, swell and shrinkage
3	AES – 3 Light Black Soil	
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 (Central Highland)

Strength	Weakness	Opportunities	Threats
- High water holding capacity - Suitable for all type of field, horticulture, medicinal and aromatic crops. - Appreciably high nutrient status except nitrogen, Zn and S. - Fairly moderate weather and climatic condition with mean air temperature of 26.9°C and 28.2°C soil temperature. - Suitable for double cropping. - Hub for quality seed production of cereals, oilseeds and pulses.	Hard Pan due to low infiltration and application of heavy machinery	Increase the orchard area and horticultural enterprises	Low availability of irrigation water due to uncertain rain, poor water recharge and lack of water bodies for on-farm harvesting of rain water

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	609.874
Forest	3.1
Waste Land	2.8
Other than cultivated area	
Cultivable waste and alkaline land	500.9
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	500
Kharif	
Rabi	
Zaid	
Cropping Intensity	176

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	7187*
2	Well	65099*
3	Tube well	268492*
4	Ponds	5102*
5	Others	

* 2016 data from statistical deptt.

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Medium and deep Black Soil	Clay texture, very fertile in nature and moisture retention is high	
2		pH ranges from 7.2 to 8.5 at 25°C	
3		Soil is rich in potash but deficit in nitrogen and organic matter	
4		Colour-deep black to light black	
5		Overall micronutrient deficiency Zn 71%, Cu 12.6%, Fe 49.5, Mn 16.6%, S 36% and B 24%	

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	478976	5062550	10.6
2	Wheat	279999	10784463	38.5
3	Chickpea	145022	1739553	12
4	Maize	3893	64300	16.5

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	17.0	22.27	9.69
Feb, 22	0	27.91	11.29
Mar, 22	2.0	35.92	16.89
Apr, 22	0.0	40.25	20.84
May, 22	0.2	40.53	25.71
Jun, 22	146	34.67	24.55
July, 2022	264	27.53	22.41
Aug., 2022	405.4	29.01	23.45
Sept., 2022	112	30.84	23.48

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Oct. 2022	64.4	31.90	19.23
Nov. 2022	0.0	30.66	14.08
Dec. 2022	3.2	27.51	13.12

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	244664	978656 MT.	4 kg
Buffalo	329322	1646610 MT.	5 kg
Sheep			
<i>Crossbred/ Indigenous</i>	1731	 MT wool	 kg
Goats	225321	3379815 MT	15 kg
Pigs <i>Crossbred/ Indigenous</i>	2608	104320 MT	40 Kg
Rabbits			
Poultry			
Hens	72000	 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	...50..... (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	Badnagar	Badnagar	Surakhedi	Soybean and Wheat	• Aerial Blight in soybean • Root Aphid in wheat	• Early maturing high yielding variety • High yielding, thermo insensitive and restricted irrigation
2	Ghattiya	Ghattiya	Guradiya Gurjar	Soybean and Chickpea	• Aerial Blight in soybean • Wilt in chickpea	• Early maturing high yielding variety • High yielding, thermo insensitive and restricted irrigation
3	Khanchrod	Khanchrod	Hatai palki	Soybean and Wheat	• Aerial Blight in soybean • Root Aphid in wheat	• Early maturing high yielding variety • High yielding, thermo insensitive and restricted irrigation
4	Nagda					
5	Mehidpur	Mehidpur	Bapaiya	Soybean, Mustard and Chickpea	• Aerial Blight in soybean • Aphid in Mustard • Wilt in chickpea	• Early maturing high yielding variety • Crop Diversification and unavailability of hybrid variety • Area covered by wheat
6	Tarana	Tarana	Kakariya-chand	Soybean and Wheat	• Aerial Blight in soybean • Root Aphid in wheat	• Early maturing high yielding variety • High yielding, thermo insensitive and restricted irrigation
7	Ujjain	Ujjain	Nahariya	Soybean and Wheat	• Aerial Blight in soybean • Root Aphid in wheat	• Early maturing high yielding variety • High yielding, thermo insensitive and restricted irrigation

Priority / Thrust areas

S. No.	Particulars
1.	Crop diversification
2.	Early maturing high yielding variety in soybean
3.	High yielding, thermo insensitive and restricted irrigation in wheat
4.	Unavailability of hybrid variety of Mustard
5.	Millet area to be introduced in potential blocks
6.	Natural Farming
7.	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
23	325	18	293

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
93	1860	352	48235

Seed Production (Qtl.)	Planting material (Nos.)
1000	2000

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	Crop diversification					Importance of crop diversification in Agriculture			
2	High yielding, thermo insensitive and restricted irrigation	Wheat	Root Aphid in Wheat	Assessment of IPM Module for the root aphid management in irrigated wheat	-				
3	Early maturing high yielding variety	Soybean	Aerial Blight in soybean	Assessment of soybean variety RVSM 1135 for high yield.					
4	Unavailability of hybrid variety of Mustard								

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.
5	Millet area to be introduced in potential blocks			- Assessment of khichadi made by Bajra millet for Nutritional security among children and women. - Assessment of sorghum varieties SPH- 1820 and CSH- 30 for Nutritional Security					
6	Natural Farming			- Assessment of input cost of Natural Farming on yield of soybean - Assessment of input cost of Natural Farming on yield of Gram/Garlic - Assessment of Neemastra and brahmastra for the control of sucking pest in soybean.					
7	Nutritional Security			- Assessment of Soybean NRC 127 for minimizing malnutrition in children and women. - Assessment of HI-1634 (Bread Wheat) for nutritional security of farm women and children. - Assessment of HI-1633 (Daliya) for nutritional security of farm women and children. - Assessment of fenugreek (Kasuri Methi) for					

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.
				nutritional security.					

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
Integrated Pest Management	Wheat	-	-	-	-	-	-	-	-	-
Varietal Evaluation		Soybean								
TOTAL										

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of soybean variety RVS-24 for high yield.
Problem diagnosed	Low yield of soybean due to old seed
Farming situation	Rainfed
Production system and thematic area	Soybean-Wheat
Farmers' practices	T1-JS 95-60
Details of technologies selected for assessment/refinement Treatments	T1: RVS-24 T2: JS 2029
Source of technology	RVSKVV(2018)
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
No. of animals (if animals are part of OFT)	NA
Critical input	Seed(Variety)
Performance indicators Observation to be recorded	Days to Maturity; Yield(Q/ha); Seed Size(g)
Cost of input	As per Govt/VV rate of seed
Total cost	As per Govt/VV rate of seed

OFT-2

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of input cost of Natural Farming on yield of soybean
Problem diagnosed	Reducing net income due to high input-cost
Farming situation	RF
Production system and thematic area	Soybean-Wheat
Farmers' practices	Raising the crop with Chemical fertilizers & IPM
Details of technologies selected for assessment/refinement Treatments	T1: Use of components (Beejamrit, Jeevamrit, Neemastra, Aganiastra etc) of Natural Farming. T2: Raising the crop with Chemical fertilizers & IPM
Source of technology	Kum Lagat: Prakritik Krishi; Gurukul, Kurukshetra(2019). Authored by Acharya Dev Vrat: Honb'le Governor-Gujrat(India)
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Techniques of preparation of components of Natural Farming.
Performance indicators Observation to be recorded	Nodules/pl., 100-Seed weight(g), Yield(q/ha); B:C ratio
Cost of input	-
Total cost	-

OFT-3

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of input cost of Natural Farming on yield of Gram/Garlic
Problem diagnosed	Reducing net income due to high input-cost
Farming situation	RF
Production system and thematic area	Soybean-Wheat
Farmers' practices	Raising the crop with Chemical fertilizers & IPM
Details of technologies selected for assessment/refinement Treatments	T1: Use of components (Beejamrit, Jeevamrit, Neemastra, Aganiastra etc) of Natural Farming. T2: Raising the crop with Chemical fertilizers & IPM
Source of technology	Kum Lagat: Prakritik Krishi; Gurukul, Kurukshetra(2019). Authored by Acharya Dev Vrat: Honb'le Governor-Gujrat(India)
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Techniques of preparation of components of Natural Farming.
Performance indicators Observation to be recorded	Ave Bulb Size, 100-Seed weight(g), Yield(q/ha); B:C ratio
Cost of input	-
Total cost	-

OFT-4

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of recent wheat variety GW-513 for high yield.
Problem diagnosed	Low yield of wheat
Farming situation	Irrigated
Production system and thematic area	Soybean-wheat
Farmers' practices	T1: HI-1544(old variety)
Details of technologies selected for assessment/refinement Treatments	T2: GW-513 T3: HI-1634
Source of technology	JAU(2022), IARI(2016)
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Seed
Performance indicators Observation to be recorded	Tillers/plant; 100-grain weight(g); Yield(q/ha); B:C ratio
Cost of input	As per VV/ Govt rate
Total cost	

OFT-5

Crop/Enterprise	Soybean
Title of on-farm trial	Assessment of Sulfentrazone ethyl for controlling annual weeds & sedges in soybean
Problem diagnosed	Low yield due to heavy weed infestation
Farming situation	Rainfed
Production system and thematic area	Integrated Weed Management
Farmers' practices	T1: Imizathpyre 10%SL
Details of technologies selected for assessment/refinement Treatments	T2: Sulfentrazoneethyl @ 360 g a.i. g/ha (PE) T3: Diclosulam 84% w/w @ 26 g a.i. g/ha (PE)
Source of technology	DSR(2016)
No. of farmers	05
Area of each trial	0.4
No of trial	5
No. of animals (if animals are part of OFT)	0
Critical input	Sulfentrazoneethyl @ 360 g a.i. g/ha (PE)
Performance indicators Observation to be recorded	Weed count, WCE, Yield, B:C
Cost of input	400/-
Total cost	2000/-

OFT-6

Crop/Enterprise	Soybean
Title of on-farm trial	Assessment of Bio-waste decomposer for quality organic product to enhance soil health
Problem diagnosed	Deteriorating soil organic carbon content
Farming situation	RF
Production system and thematic area	Crop Production- Natural Resource Management
Farmers' practices	T1: Dumping the farm waste and residue in pits exposed to extreme weather conditions
Details of technologies selected for assessment/refinement Treatments	T2: Apply the Bio waste decomposer • 25 gm consortium sufficient to decompose 10,000 metric tonnes of waste in 30 days. • Mass Multiplication : Mix 2 kg of jaggery in 200 liter of water in a container and stir well.
Source of technology	NCOF Ghaziabad
No. of farmers	05
Area of each trial	0.4
No of trial	5
No. of animals (if animals are part of OFT)	0
Critical input	Bio waste decomposer
Performance indicators	CN ratio, OC%, Time 3 months
Cost of input	
Total cost	

OFT-7

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Haloxifen methyl Ester + Florasulam
Problem diagnosed	Deteriorating soil organic carbon content
Farming situation	RF
Production system and thematic area	Crop Production- Natural Resource Management
Farmers' practices	T1: Use of 2-4 D
Details of technologies selected for assessment/refinement Treatments	T2: Haloxifen methyl Ester + Florasulam 40.85% WG @ 12.76 g ai/ha T3 : Clodinofof propargyl + Metsulfuron @ 64g ai/ha
Source of technology	
No. of farmers	05
Area of each trial	0.4
No of trial	05
No. of animals (if animals are part of OFT)	0
Critical input	Haloxifen methyl Ester + Florasulam 40.85% WG @ 12.76 g ai/ha, Clodinofof propargyl + Metsulfuron @ 64g ai/ha
Performance indicators Observation to be recorded	Yield/B:C ratio, WCE, Weed count
Cost of input	
Total cost	

OFT-8

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of CCC and Tebuconazole for yield enhancement in Irrigated wheat
Problem diagnosed	Yield reduction under sudden rise in temperature leading to forced maturity
Farming situation	RF
Production system and thematic area	Crop Production- Natural Resource Management
Farmers' practices	T1: No practice in use
Details of technologies selected for assessment/refinement Treatments	T2: Chloromequat chloride 0.2% + Tebuconazole 0.1% at first node and flagleaf stage T3: Spray of KCl @ 1% at flagleaf and grainfilling stage to mitigate environmental stress
Source of technology	IIWBR 2018
No. of farmers	05
Area of each trial	0.4
No of trial	05
No. of animals (if animals are part of OFT)	0
Critical input	Chlormequat chloride 0.2% + Tebuconazole 0.1% and KCl
Performance indicators Observation to be recorded	Plant height, 100 seed weight, Yield, B:C ratio, Heat units
Cost of input	
Total cost	

OFT-9

Crop/Enterprise	Soybean
Title of on-farm trial	Assessment of Neemastra and brahmastra for the control of sucking pest in soybean
Problem diagnosed	Low yield due to sucking pest
Farming situation	Rainfed
Production system and thematic area	IPM /Natural farming
Farmers' practices	Indiscriminate use of pesticide
Details of technologies selected for assessment/refinement Treatments	T1 : Application of Chloropyriphos T2 : Use of Neemastra (200 lit water ,2kg cow dung ,10 lit cow urine ,10 kg neem leaves) T3 : Brahmastra (20 litre cow urine, 2 kg neem leaves, 2 kg karanj leaves, 2kg custard apple leaves and 2 kg datura leaves)
Source of technology	Natural farming NITI Aayog
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
No. of animals (if animals are part of OFT)	One Desi Cow
Critical input	Neemastra and brahmastra
Performance indicators Observation	No of infected plants by white fly, yield B:C Ratio
Cost of input	1500
Total cost	7500/-

OFT-10

Crop/Enterprise	Soybean
Title of on-farm trial	Assessment of IPM Module
Problem diagnosed	Low yield due to white grub infestation
Farming situation	Rainfed
Production system and thematic area	IPM
Farmers' practices	Indiscriminate use of pesticide
Details of technologies selected for assessment/refinement Treatments	T1 : Deep Ploughing and application of Propanofos T2 : Deep Ploughing and Seed treatment with Imidachloprid 48 FS @1.25 ml/Kg Seed T3 : Deep Ploughing and application of Chlorpyrifos 2.5 % G @ 16 kg /ha b/w the rows at 25-30 DAS
Source of technology	IISR Indore
No. of farmers	05
Area of each trial	0.2 ha
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Insecticide
Performance indicators	No of white grub population/meter row length, yield B:C Ratio
Cost of input	2500/-
Total cost	5000/-

OFT-11

Crop/Enterprise	Chickpea
Title of on-farm trial	Assessment of Noval Insecticide for the control of gram pod borer.
Problem diagnosed	Low yield due to gram pod borer infestation
Farming situation	Semi irrigated
Production system and thematic area	IPM
Farmers' practices	T1: Cholorpyriphos application
Details of technologies selected for assessment/refinement Treatments	T-2 Use of Novaluram 5.25% + Indoxacarb 4.50 SC + followed by Bt 1.5 kg /ha seed formation stage. T- 3 Use of Broflanilide @85 ml / ha + followed by NPV 250 LE/ha at seed filling stage
Source of technology	IIPR Kanpur
No. of farmers	05
Area of each trial	0.2 ha
No of trial	05
No. of animals	-
Critical input	Insecticide
Performance indicators	No of pod borer population / 1 meter row length ,yield B:C Ratio
Cost of input	2500/-
Total cost	5000/-

OFT-12

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Insecticide for the control of root aphid management in wheat
Problem diagnosed	Low yield due to aphid infestation
Farming situation	Irrigated
Production system and thematic area	IPM
Farmers' practices	T1: Application of Cholorpyriphos
Details of technologies selected for assessment/refinement Treatments	T2 : Seed treatment with Imidachloprid T3 : Spray of Thiomethoxam 25 WG@100gm/acre before first irrigation
Source of technology	IARI –Indore
No. of farmers	05
Area of each trial	0.2 ha
No of trial	05
No. of animals (if animals are part of OFT)	-
Critical input	Insecticide
Performance indicators	No of aphid population / plant ,yield B:C Ratio
Cost of input	1500
Total cost	5000/-

OFT-13

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of medium maturing soybean variety RVSM 1135 for high yield.
Problem diagnosed	Low yield due to YMV and Root rot
Farming situation	RF
Production system and thematic area	Soybean-Wheat
Farmers' practices	T1-JS 20-116
Details of technologies selected for assessment/refinement Treatments	T1: RVSM 11-35 T2: RVS-18
Source of technology	RVSKVV(2021)
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
No. of animals (if animals are part of OFT)	NA
Critical input	Seed(Variety)
Performance indicators Observation to be recorded	Days to Maturity; Yield(Q/ha); Seed Size(g)
Cost of input	As per Govt/VV rate of seed
Total cost	As per Govt/VV rate of seed

OFT-14

Crop/Enterprise	Enterprise
Title of on-farm trial	Knowledge level and adoption behavior of farmers towards organic farming
Problem diagnosed	Poor knowledge & adoption regarding organic farming
Farming situation	-
Production system and thematic area	Awareness
Farmers' practices	T1-Farmers are not adopting organic farming practices
Details of technologies selected for assessment/refinement Treatments	T2-Farmers are adopting organic farming Practices
Source of technology	Govt.Scheme
No. of farmers	90
Area of each trial	N/A
No of trial	90
No. of animals (if animals are part of OFT)	N/A
Critical input	Survey through interview Schedule
Performance indicators Observation to be recorded	Knowledge level & Adoption Behavior of respondent. Constraints faced by the respondents
Cost of input	400/-
Total cost	1500/-

OFT-15

Crop/Enterprise	Enterprise
Title of on-farm trial	Awareness of Pradhan Mantri Krishi Sinchayee Yojana among Farmers.
Problem diagnosed	Poor awareness regarding importance of Pradhan Mantri Krishi Sinchayee Yojana
Farming situation	-
Production system and thematic area	Awareness
Farmers' practices	T1-Farmers are not aware Pradhan Mantri Krishi Sinchayee Yojana
Details of technologies selected for assessment/refinement Treatments	T2-Farmers are adopting Pradhan Mantri Krishi Sinchayee yojana
Source of technology	Govt. Scheme
No. of farmers	90
Area of each trial	
No of trial	90
No. of animals (if animals are part of OFT)	-
Critical input	
Performance indicators Observation to be recorded	General scenario of the scheme. Awareness of the scheme. Opinion of the farmers
Cost of input	400/-
Total cost	1500/-

OFT-16

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of khichadi made by Bajra millet for Nutritional security among children and women.
Problem diagnosed	Lack of awareness of nutrition.
Farming situation	Rainfed
Production system and thematic area	Nutritional security.
Farmers' practices	T1 : Soybean
Details of technologies selected for assessment/refinement Treatments	T2- Local Maize T3- Hybrid Bajra
Source of technology	ICAR-CAZRI, Jodhpur / PVT.
No. of farmers	05
Area of each trial	Back Yard
No of trial	05
No. of animals (if animals are part of OFT)	0
Critical input	Seed of Bajra
Performance indicators	Protein and Iron
Cost of input	250/kg
Total Cost	2250/-

OFT-17

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of Soybean NRC 127 for minimizing malnutrition in children and women.
Problem diagnosed	Lack of knowledge of nutrition.
Farming situation	Rainfed
Production system and thematic area	Nutritional security.
Farmers' practices	T1- Soybean 9305
Details of technologies selected for assessment/refinement Treatments	T2- Soybean JS 20-34 T3- Soybean NRC-127
Source of technology	IISR, Indore.
No. of farmers	05
Area of each trial	Back Yard
No of trial	05
No. of animals (if animals are part of OFT)	0
Critical input	Seed of NRC-127
Performance indicators Observation to be recorded	Protein and Iron
Cost of input	100/kg
Total cost	1100/-

OFT-18

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of HI-1634 (Bread Wheat) for nutritional security of farm women and children.
Problem diagnosed	Lack of awareness about nutritious variety of wheat.
Farming situation	Irrigated
Production system and thematic area	Nutritional security
Farmers' practices	T1-Wheat –LOK-1
Details of technologies selected for assessment/refinement Treatments	T2-Wheat HI 8773 T3- Wheat HI 1634
Source of technology	IARI wheat research centre, Indore.
No. of farmers	05
Area of each trial	0.4ha
No of trial	05
No. of animals (if animals are part of OFT)	0
Critical input	Seed of Wheat –HI-1634.
Performance indicators Observation to be recorded	Nutritive value-Protein , Iron and Zinc
Cost of input	50/-
Total cost	2250/-

OFT-19

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of HI-1633 (Daliya) for nutritional security of farm women and children.
Problem diagnosed	Lack of awareness about nutritious variety of wheat.
Farming situation	Irrigated
Production system and thematic area	Nutritional security
Farmers' practices	T1-Wheat –LOK-1
Details of technologies selected for assessment/refinement Treatments	T2- Wheat HI 8773 T3-Wheat HI-1633
Source of technology	IARI wheat research centre, Indore.
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
No. of animals (if animals are part of OFT)	0
Critical input	Seed of Wheat –HI-1633.
Performance indicators Observation to be recorded	Nutritive value-Protein , Iron and Zinc
Cost of input	50/-
Total cost	2250/-

OFT-20

Crop/Enterprise	Crop
Title of on-farm trial	Assessment of fenugreek (Kasuri Methi) for nutritional security.
Problem diagnosed	Lack of awareness about nutritious variety of fenugreek.
Farming situation	Irrigated
Production system and thematic area	Nutritional security
Farmers' practices	T1-Local variety
Details of technologies selected for assessment/refinement Treatments	T2-Fenugreek RMT-305 T3-Fenugreek (Kasuri Methi)
Source of technology	IVRI
No. of farmers	05
Area of each trial	Back yard
No of trial	05
No. of animals (if animals are part of OFT)	0
Critical input	Seed of Fenugreek.
Performance indicators Observation to be recorded	Nutritive value-Protein , Iron , calcium and Zinc
Cost of input	100/-
Total cost	1100/-

OFT-21

Crop/Enterprise	Sorghum
Title of on-farm trial	Assessment of sorghum varieties SPH- 1820 and CSH- 30 for Nutritional Security
Problem diagnosed	Less production of miner millet
Farming situation	Rainfed
Production system and thematic area	Nutritional Security
Farmers' practices	T1- Soybean
Details of technologies selected for assessment/refinement Treatments	T2 – Sorghum Variety SPH- 1820 T3 - Sorghum Variety CSH- 30
Source of technology	Indian Institute of Millet Research (IIMR)
No. of farmers	10
Area of each trial	25 ha
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	Sorghum Variety SPH- 1820 & CSH- 30
Performance indicators Observation to be recorded	Yield , Cost of cultivation, Gross return , Net return, B:C ratio
Cost of input	300
Total cost	3000

OFT-22

Crop/Enterprise	Drumstick powder (whole year)
Title of on-farm trial	Assessment of supplementation of drumstick leave powder to combat iron deficiency Anemia among adolescence girl
Problem diagnosed	A diet lacking in certain vitamins & minerals, A diet consistently low in Iron, Folate
Farming situation	-
Production system and thematic area	Nutritional security
Farmers' practices	T1- Daily diet without Supplementation
Details of technologies selected for assessment/refinement Treatments	T2 – Supplementation of Drumstick Powder T3 - Supplementation of flower powder
Source of technology	Bharathi L & Sindhu S., 2015, International Journal of current research .
No. of farmers	15
Area of each trial	-
No of trial	15
No. of animals (if animals are part of OFT)	-
Critical input	Drumstick Leaves powder
Performance indicators	% of Hemoglobin Before and after treatment
Cost of input	1000
Total cost	10000

OFT-23

Crop/Enterprise	Aonla (Rabi)
Title of on-farm trial	Assessment of Aonla value addition for generation of additional income to farm women
Problem diagnosed	Less use of linseed in daily life
Farming situation	-
Production system and thematic area	Value addition / income generation
Farmers' practices	T1- Aonla Candy
Details of technologies selected for assessment/refinement Treatments	T2 – Aonla + Beet root muchas T3 – Aonla + Fennel seed mukhas
Source of technology	-
No. of farmers	10
Area of each trial	2 kg mukhas
No of trial	10
No. of animals (if animals are part of OFT)	-
Critical input	Aonla , Beet root, Fennel seed, and other ingredient
Performance indicators	Shelf life and income generation
Cost of input	₹ 200
Total cost	₹ 2000

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	In situ moisture conservation in soybean	FIRBS Planting	FIRB Planter	Kharif 2023	4	10	Yield, B:C, Plant height
2.	Wheat	Weed Management	Clodinofof (60g) + Metsulfuron 4g ai /ha	Weedicide	Rabi 2023	5	12	WCE, Weed count, Yield, B:C
3.	Garlic	Integrated Pest Management	Lambda cyhalothrin 5 % SC 100 ml /ha + Yellow sticky traps	Lambda cyhalothrin 5 % SC 100 ml /ha + Yellow sticky traps	Rabi 2023	2	5	Thrips population / 5 plant , B:C Ratio ,Yield /ha
4.	Onion	Integrated Disease Management	Demonstration on fungicide for the management in purple bloch in onion	Pyraclostrobin 6.7 + Boscalid 26.7% SC 1 gram /liter of water	Rabi 2023-24	02	5	Number of infected plant / Meter row , B:C Ratio ,Yield /ha
5.	Soybean	Integrated Pest Management	Demonstration of IPM module for the Stem fly management in soybean	Seed treatment with Thiomethoxam 30 %FS @10ml/kg seed and spray of Chlorantraniliprole 18.5% SC @ 150ml/ha	Kharif 2023	02	5	Infected plants /m2,, Number of Fly /infected plant randomly selected 5 plant,Yield & B:C
6.	Maize	Integrated Pest Management	Demonstration of IPM practice for Fall armyworm control	Spinetoram 11.7% SC @ 0.5 ml/litre of water and Thiamethoxam 12.6% + lambda cyhalothrin 9.5% @ 0.25 ml/l of water	kharif -2023	02	5	Infected plant /m2, Number of caterpillar /infected plant randomly selected 5 plant Yield , B:C
7.	Vegetables	Malnutrition	Nutritional Kitchen garden for minimizing malnutrition problem.	Hy. Varieties of vegetables.	Kharif - 2023	Back yard	12	Energy, Protein, Iron and Calcium.
8.	Vegetables	Malnutrition	Vegetables Soybean	Vegetable Soybean	Kharif 2023	Back yard.	12	Energy, Protein, Iron and Calcium.
9.	Vegetables	Malnutrition	Vegetables Soybean	Vegetable Soybean	Rabi 2023	Back yard.	12	Energy, Protein, Iron and Calcium.

S. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demonstration	Parameters identified for performance evaluation
10.	Amaranthus seed	Nutritional Security	Wheat +Amaranth seed (8:2)	Amaranth seed	Rabi 2023	01	10	Per capita Consumption gm/ day , Energy (kcal), Protein (gm), Iron (mg) , Calcium (mg) , Magnesium (PPM)
11.	Wheat	Income generation & nutritional Security of farm women & their family	Demonstration on wheat Variety HI - 8777	wheat Variety HI – 8777 Seed	2023 Rabi	01	5	Yield , Cost of cultivation, Gross return , Net return, B:C ratio
12.	Green leafy Vegetable	Nutritional security of Farmers family	Demonstration on Green leafy Roof nutritional Garden	Green leafy Seed	Around the year	200 sq m	10	Consumption /gm/day, protein, calcium, iron, vitamin
13.	Soybean	Integrated Nutrient Management	Liquid bio-fertilizers to enhance BNF	Liquid bio-fertilizers	Kharif - 2023	4	10	Yield, B:C Ratio
14.	Soybean	Integrated Nutrient Management	STCR in soybean	Fertilizer	Kharif - 2023	2	5	Yield, B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	Jan and October	100
2	Farmers Training	02	May and Sept	40
3	Media coverage	02	Jan and October	Mass
4	Training for extension functionaries	02	May and September	40

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Integrated Crop Management	Full package under Cluster demonstration	Seed	Kharif 2023	20	50	Yield, B:C Ratio, pods/plant, 100 seed wt
2	Blackgram	Integrated Crop Management	Full package under Cluster demonstration	Seed and Fungicide	Kharif 2023	20	50	Yield, B:C Ratio, pods/plant, 100 seed wt
3	Mustard	Integrated Crop Management	Full package under Cluster demonstration	Seed and Fungicide	Rabi 2023	10	25	Yield, B:C Ratio, pods/plant, 100 seed wt
4	Chickpea	Integrated Crop Management	Full package under Cluster demonstration	Seed and Fungicide	Rabi 2023	20	50	Yield, B:C Ratio, pods/plant, 100 seed wt

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Sept, Jan	200
2	Farmers Training	04		80
3	Media coverage	04		Mass
4	Training for extension functionaries	02		40

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	01	01	-	-	-	-	-	-	20
Soil and Water Conservation	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	01	01	-	-	-	-	-	-	20
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	01	01	-	-	-	-	-	-	20
Nutrient Use Efficiency	01	01	-	-	-	-	-	-	20
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	04	04	-	-	-	-	-	-	80
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	05	05	-	-	-	-	-	-	100
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	01	01	-	-	-	-	-	-	20
Minimization of nutrient loss in processing	01	01	-	-	-	-	-	-	20

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Gender mainstreaming through SHGs	01	01	-	-	-	-	-	-	20
Value addition	03	03	-	-	-	-	-	-	60
Income generation activities for empowerment of rural Women	02	02	-	-	-	-	-	-	40
Location specific drudgery reduction technologies	01	01	-	-	-	-	-	-	20
Women and child care	01	01	-	-	-	-	-	-	20
Total	15	15	-	-	-	-	-	-	300
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
VII Plant Protection	-	-	-	-	-	-	-	-	-
Integrated Pest Management	02	02	-	-	-	-	-	-	40
Integrated Disease Management	02	02	-	-	-	-	-	-	40
Bio-control of pests and diseases	02	02	-	-	-	-	-	-	40
Production of bio control agents and bio pesticides	02	02	-	-	-	-	-	-	40
Total	08	08	-	-	-	-	-	-	160
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	01	01	-	-	-	-	-	-	20
Group dynamics	01	01	-	-	-	-	-	-	20
Formation and Management of SHGs	01	01	-	-	-	-	-	-	20
Mobilization of social capital	02	02	-	-	-	-	-	-	20
Entrepreneurial development of farmers/youths	02	02	-	-	-	-	-	-	20
WTO and IPR issues	-	-	-	-	-	-	-	-	-
Total	07	07	-	-	-	-	-	-	140
XI Agro-forestry	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
Information and Communication Technology	02	02	-	-	-	-	-	-	40
Capacity building for ICT application	02	02	-	-	-	-	-	-	40
Plant Breeding and Genetics	-	-	-	-	-	-	-	-	-
Seed Production	02	02	-	-	-	-	-	-	40
Climate Resilient Agriculture	01	01	-	-	-	-	-	-	20
Crop Diversification	01	01	-	-	-	-	-	-	20
Natural Farming	02	02	-	-	-	-	-	-	40
Total	10	10	-	-	-	-	-	-	200
Grand Total	52	52	-	-	-	-	-	-	1040

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-
Mushroom Production	01	05	-	-	-	-	-	-	25
Bee-keeping	01	05	-	-	-	-	-	-	25
Seed production	01	01	-	-	-	-	-	-	24
Planting material production	01	01	-	-	-	-	-	-	24
Vermi-culture	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-
TOTAL	04	12	-	-	-	-	-	-	98
(C) Extension Personnel	-	-	-	-	-	-	-	-	-
Productivity enhancement in field crops	01	01	-	-	-	-	-	-	20
Integrated Pest Management	02	02	-	-	-	-	-	-	40
Integrated Nutrient management	01	01	-	-	-	-	-	-	20
Protected cultivation technology	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	01	01	-	-	-	-	-	-	20
Capacity building for ICT application	01	01	-	-	-	-	-	-	20
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	06	06	-	-	-	-	-	-	120

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	01	-	-	-	-	-	-	20
Resource Conservation Technologies	01	01	-	-	-	-	-	-	20
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-
Integrated Farming	01	01	-	-	-	-	-	-	20
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	01	01	-	-	-	-	-	-	20
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	04	04	-	-	-	-	-	-	80
II Horticulture									

[illegible]

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Integrated Pest Management	01	01	-	-	-	-	-	-	20
Integrated Disease Management	01	01	-	-	-	-	-	-	20
Bio-control of pests and diseases	01	01	-	-	-	-	-	-	20
Production of bio control agents and bio pesticides	01	01	-	-	-	-	-	-	20
Total	04	04							80
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-
Leadership development	01	01	-	-	-	-	-	-	20
Group dynamics	01	01	-	-	-	-	-	-	20
Formation and Management of SHGs	01	01							20
Mobilization of social capital	01	01							20
Entrepreneurial development of farmers/youths	01	01							20
WTO and IPR issues	01	01							20
Total	06	06							120
XI Agro-forestry	-	-							
XII Others (Pl. Specify)	-	-							
Plant Breeding and Genetics									
Seed Production	02	02							40
Integrated Crop Management	01	01							20
Natural Farming	02	02							40
Total	05	05							100
G.TOTAL	31	31							620
(B) RURAL YOUTH	-	-							
Production of organic inputs	-	-							
Sheep and goat rearing	-	-							
TOTAL	0	0							0
(C) Extension Personnel	-	-							
TOTAL	0	0							0

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	Scientific Production technology of Kharif Crop	1	-	-	-	-	-	-	20
Sept.	F/FW	Scientific Production technology of Rabi Crop	1	-	-	-	-	-	-	20
June	F/FW	Scientific Production technology of Oilseed under CFLD	1	-	-	-	-	-	-	20
July	F/FW	Scientific Production technology of pulse under CFLD	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	
Sept.	F/FW	Scientific Production technology of Oilseed under CFLD	1	-	-	-	-	-	-	20
October	F/FW	Scientific Production technology of pulse under CFLD	1	-	-	-	-	-	-	20
August	F/FW	Integrated Weed management of Kharif Crop	1	-	-	-	-	-	-	20
Nov.	F/FW	Integrated Weed management of Rabi Crop	1	-	-	-	-	-	-	20
May	F/FW	Integrated farming system for crop diversification	1	-	-	-	-	-	-	20
June	F/FW	In-situ moisture conservation through FIRBs	1	-	-	-	-	-	-	20
Jun	F/FW	Training on Improved Varieties suitable for climate resilient agriculture	1	-	-	-	-	-	-	20
Oct	F/FW	Seed production technology of Rabi pulses	1	-	-	-	-	-	-	20
Sept/ Oct	F/FW	Farm Economy boost up through new high yielding wheat varieties.	1	-	-	-	-	-	-	20
June	F/FW	How farmers can increase yield of soybean through selection of varieties.	1	-	-	-	-	-	-	20
June	F/FW	Package & practices for production of kharif Pulses.	1	-	-	-	-	-	-	20
June	F/FW	Importance of crop diversification in Agriculture	1	-	-	-	-	-	-	20
June	F/FW	Techniques of quality seed production for seed societies –rabi crops	1	-	-	-	-	-	-	20
Sept.	F/FW	Training on Mustard varieties for high Oilseed production.	1	-	-	-	-	-	-	20
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
January	FW	House hold food security by nutritional gardening.	1	-	-	-	-	-	-	20
February	FW	Food preservation techniques with minimum losses of nutrients	1	-	-	-	-	-	-	20
March	FW	Importance of SHG in income generation activities.	1	-	-	-	-	-	-	20
April	FW	Use of improved women friendly implements – for reducing drudgery and enhance efficiency.	1	-	-	-	-	-	-	20
June	FW	Awareness among farmers families towards use of soybean	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	
			food products								
June		FW	Nutritional garden is better source for availability of fresh fruits and vegetables	1	-	-	-	-	-	-	20
October		FW	Awareness among farmers families towards use of soybean food product	1	-	-	-	-	-	-	20
March		FW	Formation of Self Help Group	1	-	-	-	-	-	-	20
April		FW	Grain Storage	1	-	-	-	-	-	-	20
May		FW	Importance of Value addition in doubling of farmers income	1	-	-	-	-	-	-	20
January		FW	Value addition in Mushroom	1	-	-	-	-	-	-	20
June		FW	Vermicomposting- A step to generate empowerment among farm women	1	-	-	-	-	-	-	20
Plant Protection											
Jan /Sept		FW	Integrated Pest Management	02	-	-	-	-	-	-	40
Feb /Oct		FW	Integrated Disease Management	02	-	-	-	-	-	-	40
March /Nov		FW	Bio-control of pests and diseases	02	-	-	-	-	-	-	40
April/Dec		FW	Production of bio control agents and bio pesticides	02	-	-	-	-	-	-	40
Agriculture Extension (Capacity Building and Group Dynamics)											
Jan		RY	Leadership Development among Rural Youth	01	-	-	-	-	-	-	20
Feb		F/FW	Empowerment of farmers through FPO	01	-	-	-	-	-	-	20
Mar		F/FW	Entrepreneurship development schemes for farmers	01	-	-	-	-	-	-	20
April		RY	Market led extension for entrepreneurship in rural youth	01	-	-	-	-	-	-	20
May		FW	Social Media –an effective tool for transfer of technology	01	-	-	-	-	-	-	20
June		RY	ICT application for transfer of agricultural technology	01	-	-	-	-	-	-	20
Soil Science											
May		FW	Importance of soil test based fertilizer application for higher productivity of crops	01							20
Aug/Oct		FW	Importance of INM in Kharif & Rabi crops.	02							40
Sept		FW	Beneficial Soil Microbes for crop production	01							20
Dec.		FW	Soil fertility management through Natural farming	01							20

2. Off Campus

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Home Science										
July	RY	Awareness about Millet-Bajra for nutritional security.	1	-	-	-	-	-	-	20
August	RY	House hold food security by nutritional gardening.	1	-	-	-	-	-	-	20
October	FW	Awareness about Millet-Bajra for medicinal use	1	-	-	-	-	-	-	20
November	FW	Malnutrition of children and farm women : effect, causes and eradication.	1	-	-	-	-	-	-	20
December	RY	Use of crop residues for organic manure by using vermin-pit for income generation of women SHG.	1	-	-	-	-	-	-	20
July	FW	Use of improved women friendly implements – for reduce drudgery and enhance efficiency	1	-	-	-	-	-	-	20
August	FW	Malnutrition of children and farm women : effect, causes and eradication	1	-	-	-	-	-	-	20
May	FW	Nursery management to strengthen economic power of farm women	1	-	-	-	-	-	-	20
March	FW	Training of importance of millet in aspect of nutrition	1	-	-	-	-	-	-	20
June	FW	Nutritional garden is better source for availability of fresh fruits and vegetables	1	-	-	-	-	-	-	20
Feb	FW	Training on poshan & suraksha	1	-	-	-	-	-	-	20
Plant Protection										
May	FW	Integrated Pest Management	1	-	-	-	-	-	-	20
June	FW	Integrated Disease Management	1	-	-	-	-	-	-	20
July	FW	Bio-control of pests and diseases	1	-	-	-	-	-	-	20
August	FW	Production of bio control agents and bio pesticides	1	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
Jul	F/FW	Importance of WTO for trading	1	-	-	-	-	-	-	20
Aug	F/FW	Use of ICT application in agriculture extension	1	-	-	-	-	-	-	20
Sept	F/FW	Mobilization of farmers by Govt. Scheme	1	-	-	-	-	-	-	20
Oct	F/FW	Formation and strengthening of FPO for	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	
		agricultural development								
Nov	F/FW	Market led extension in agricultural entrepreneurship	1	-	-	-	-	-	-	20
Dec	RY	Effective use of ICT tools for marketing of products.	1	-	-	-	-	-	-	20
Soil Science										
May	F/FW	Farmer Friendly Technological options for Sustainable Soil health to enhance crop Production	1	-	-	-	-	-	-	20
June	F/FW	Organic farming for profitability & Sustainability	1	-	-	-	-	-	-	20
Jul	F/FW	Vermi-composting- A step to generate empowerment among Rural Youth	1	-	-	-	-	-	-	20
Sept.	F/FW	Application method of Liquid Nano Fertilizer in Rabi Crop	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										
	-	-	-	-	-	-	-	-	-	-
Horticulture										
	-	-	-	-	-	-	-	-	-	-
Livestock production										
	-	-	-	-	-	-	-	-	-	-
Home Science	RY	Income Generation through Handicraft	15							25
Plant Protection	RY	Training on Bee Keeping for Entrepreneurship Development	5							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Nov/Dec	RY	Training on Mushroom Production technology for income generation	5							25
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										
Jul/Oct	IS	Scientific Production technology of Kharif	02	-	-	-	-	-	-	40

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		and Rabi crop								
Horticulture										
	-	-	-	-	-	-	-	-	-	-
Livestock production										
	-	-	-	-	-	-	-	-	-	-
Home Science										
May/June	IS	Use of minor millets for enhancing health status of children and women	02	-	-	-	-	-	-	40
Septemb er	IS	Role of Balanced diet to control the mal nutrition in child & women	01	-	-	-	-	-	-	20
Plant Protection				-	-	-	-	-	-	
August	IS	Integrated Pest and disease Management in Kharif Crop	01	-	-	-	-	-	-	20
Nov.	IS	Integrated Pest and disease Management in Rabi Crop	01	-	-	-	-	-	-	20
Agriculture Extension (Capacity Building and Group Dynamics)										
Septemb er	IS	ICT application for capacity building	01	-	-	-	-	-	-	20
Jan	IS	Communication and management skill for extension personnels	01	-	-	-	-	-	-	20
Soil Science	IS	Farmer Friendly Technological options for Sustainable Soil health & Enhanced crop Production	01	-	-	-	-	-	-	20

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
	Wheat	Pusa Tejas HI -8759	80
	Wheat	HI-1544	80
OILSEEDS			
	Soybean	RVSM -11-35	350
	Soybean	RVSM-76, JS 20-116	300
PULSES			
	Chickpea	RVG -204	300
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

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

Bio-products

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

Sl. No.	Product Name	Species	Quantity	
1	Vermicompost	-		1000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
2009	Quarterly (March,June,Sept,Dec)	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Android App		01
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	
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. 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:.....2007...

List of equipments purchased: (Mandi Fund)(Equipment Required)

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

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	10	
Water Samples	100	100	10	-
Total	500	500	10	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture and Farmers Welfare, Ujjain	Training, Diagnostic Visit and Extension Activities
Department of Horticulture, Ujjain	Training, Diagnostic Visit and Extension Activities
Department of Veterinary, Ujjain	Animal Health Camp and Participation in Extension Activities
Department of women and Child	Training an Posahn Maah celebration
IFFCO	Seed ling and sapling distribution in September month
Bank of India	SAC Member

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No : Yes

Name of Programme	Nature of linkage
Interface	Forward Linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Nil	

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes : Natural Farming

Month	Activity details	Targeted Beneficiaries/ Area/ Coverage
Jan to Dec 23	Training and Awareness Program on Natural Farming (50)	1500
Jul to Oct 23	Demonstration on farmers field under Natural farming Kharif season	08
Aug 23	Method demonstration of preparation of natural agricultural ingredient	80

Name of Flagship programmes : Seed Hub

Month	Activity details	Targeted Beneficiaries/ Area/ Coverage	Targeted Production(Qtl.)
June 23	Seed Hub-Soybean	50 ha	600
Oct - 23	Seed Hub-Chickpea	30 ha	400

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _1000___ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	RVSM-1135, JS 2034,JS 20-116, RVS-24, RVS-18, RVS-76, NRC-86, RVS 2001-4, NRC-150, NRC-127, NRC-142, NRC-128, NRC-136, JS 95-60, JS 20-94, JS 20-69, JS 20-29, JS 20-98		25
Greengram		HUM-1, TJM-3, TM 99-37, TM 99-50, TARM-1, JM-721, Ganga-8, BPMR-145, PM-35, Lal Mung		
Blackgram		PU-1, JU-86, JU-2, UTTRA, JU-3, AU-1, PU-35, AK-321, PU-30, T-9		
Pigeonpea		RVA-28, TJT-501, P. Arhar-2002, P. Arhar-2009, P. Arhar-992, JKM-7, Asha		
Maize		Lal Makka, P-3101, NK-6240, S-6304, IA-1122		
Wheat	Rabi	GW-513, GW-503, HI-1634, HI-1636, HD-8823, HD-2932, HI-8713, HI-8737, HI-8759, HD-2987, HI-1605, HI-1544, HD-2930, HI-8777, RVW-4106, HD-2864, GW-3020, MP-3366		
Chickpea		RVKG-101, RVSKG-102, PKV-4, KRIPA, JKG-3, DOLLAR, Phule Vikram, HC-5, RVG-201, RVG-202, RVG-203, RVG-204, RSG-973, JG-16 U-21 etc.		
Mustard		Pusa Jaikisan, RVM-2, RH-530, RH-749, RVM-1, JMWR 8-3, JM-3, NRCYS 05-02 etc.		
Linseed		JLS-66, JLS-67, JLS-79, RLC-148, JLS-27, JLS-95 & JLS-73		
Fenugreek		RMt-143, RMt-305, RMt-351, RMt-361, RMt-303, & AFG-3		
Lentil		JL-1 , JL-3,JL-31, RVL-31		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Demonstration of Natural Farming In Soybean	Use of Beejamrutha, Ghanaamruth, Jeevamrutha , & Pest Control by Neemastra, Agniastra	5 ha	10 Q/ ha
Demonstration of Natural Farming In Chickpea	Use of Beejamrut, Ghanaamrut, Jeevamrut , & Pest Control by Neemastra, Agniastra	5 ha	12 Q/ha