

ANNUAL ACTION PLAN

NGO & ICAR KVKs

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, Anuppur (CAU)	3
2.	KVK, Bhopal (ICAR)	48
3.	KVK, Burhanpur	78
4.	KVK, Govindnagar (Hoshangabad)	126
5.	KVK, Indore	181
6.	KVK, Raisen	219
7.	KVK, Ratlam	276
8.	KVK, Satna	332
9.	KVK, Sehore	384

ANNUAL ACTION PLAN 2023












KVK: Anuppur

Year of sanction: 2017

1.1 Name of the Sr. Scientist & Head with phone & mobile No

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

1.2 Staff Position on (31th Dec.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	Sr. Scientist & Head	Dr. S.K. Pandey	Sr. Scientist & Head	Agricultural Extension	Level 13A 147600	05/02/2018	2018	9755362640	headkvk@igntu.ac.in	
2	Subject Matter Specialist	Dr. Anita Thakur	SMS	Soil Science	Level 10 63100	10/01/2018	2018	9406955752	anitakvk@igntu.ac.in	
3	Subject Matter Specialist	Mr. Yogesh Kumar	SMS	Agro forestry	Level 10 63100	10/01/2018	2018	7898370746	yogeshkvk@igntu.ac.in	
4	Subject Matter Specialist	Dr. Anil Kurmi	SMS	Plant Protection	Level 10 63100	12/01/2018	2018	9425622616	anilkvk@igntu.ac.in	
5	Subject Matter Specialist	Mr. Sandeep Chouhan	SMS	Agricultural Extension	Level 10 63100	15/01/2018	2018	9691241215	chouhankvk@igntu.ac.in	
6	Subject Matter Specialist	Mr. Suneel Kumar Rathour	SMS	Multi Discipline	Level 10 63100	16/01/2018	2018	9685532161	rathourekvk@igntu.ac.in	
7	Subject Matter Specialist	Mr. Suryakant Nagre	SMS	Agronomy	Level 10 63100	18/01/2018	2018	9907768553	sknagrevk@igntu.ac.in	
8	Programme Assistant	-	-	-	-	-	-	-	-	-
9	Computer Programmer / Programme Assistant	-	-	-	-	-	-	-	-	-
10	Farm Manager	-	-	-	-	-	-	-	-	-
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Mr. Sandeep Kumar	Stenographer		Level 04 28700	28/03/2018	2018	8989168018	sandeep.kvk@igntu.ac.in	
13	Driver	Mr. Bharat Kumar Banjara	Driver		Level 03 24500	28/03/2018	2018	9753760617	bharat.banjara@igntu.ac.in	
14	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	Mr. Mohit Puri	Skilled Support staff		Level 01 20300	27/03/2018	2018	8131541797	mohit.puri@igntu.ac.in	
16	Supporting staff	Mr. Vibhor Chandra Gupta	Skilled Support staff		Level 01 20300	28/03/2018	2018	9907728692	vibhorkvk@igntu.ac.in	

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

S. No.	Item	Area (ha)
1	Under Buildings	-
2	Under Demonstration Units	1.7
3	Under Crops	16.3
4	Orchard/Agro-forestry	0.8
5	Others (specify)	-
Total		18.8

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2018	509336.00		Working
Motor Cycle 2	-	-	-	-
Bolero(Jeep)	2019	701687.00	83877	Working
Other (Tractor Trailor)	2019	148499.00	-	Working

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	15 May 2023
2	25 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	<p>Rainfed situation (Early season drought) Delay by 2 weeks (4th week of June),</p> <p>soil type-</p> <ol style="list-style-type: none"> 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils <p>Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram</p>
2	AES – 2	<p>Rainfed situation (Early season drought) Delay by 4 weeks (2nd week of July)</p> <p>soil type-</p> <ol style="list-style-type: none"> 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils <p>Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram</p>
3	AES – 3	<p>Rainfed situation (Early season drought) Delay by 6 weeks (4th week of July)</p> <p>soil type-</p> <ol style="list-style-type: none"> 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils <p>Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram</p>
4	AES – 4	<p>Rainfed situation Early season drought (Normal onset) Normal onset followed by 15-20 days dry spell after sowing leading to poor germination/crop stands etc.</p> <p>soil type-</p> <ol style="list-style-type: none"> 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils <p>Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram</p>
5	AES – 5	<p>Rainfed situation Early season drought (Normal onset) At vegetative stage</p> <p>soil type-</p> <ol style="list-style-type: none"> 1. Low land bunded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbunded shallow black soils <p>Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram</p>

6	AES – 6	Rainfed situation Mid-season drought (long dry spell) At flowering/ fruiting stage soil type- 1. Low land banded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbanded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
7	AES – 7	Rainfed situation Terminal drought (Early withdrawal of monsoon) soil type- 1. Low land banded, deep and medium deep black soils, Farming situations- Rice-Wheat/ Linseed/Lentil, Rice-Chickpea / lentil and Soybean 2. Upland unbanded shallow black soils Farming situations- Rice, Maize-Mustard, Kodo millets, Niger, Soybean and black gram
8	AES – 8	Irrigated situations Delayed release of water in canals due to low rainfall soil type- 1. Deep to medium deep soils. Farming situations- Rice-Wheat, Rice-Chickpea.
9	AES – 9	Irrigated situations Limited release of water in canals due to low rainfall soil type- 1. Deep to medium deep soils. Farming situations- Rice-Wheat, Rice-Chickpea, and Maize-Wheat.
10	AES – 10	Irrigated situations Non release of water in canals under delayed onset of monsoon in catchments soil type- 1. Deep to medium deep soils. Farming situations- Rice-Wheat ,Rice-Chickpea
11	AES – 11	Irrigated situations Insufficient groundwater recharge due to low rainfall soil type- 1. Deep to medium deep soils. Farming situations- Rice-Wheat ,Rice-Chickpea
12	AES – 12	Unusual rains (untimely, unseasonal etc.) (for both Rainfed and Irrigated situations) Continuous high rainfall in a short span leading to water logging soil type- 1. Deep to medium deep soils. Farming situations-Rice, Pigeon pea, Maize, Minor millets and horticulture crops.

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

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

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

Strength	Weakness	Opportunities	Threats
• low water demand crop easily grow	• lack of irrigation facilities	• Low investment and high profit by millets	• total depend on rain

AES-8 (name)

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

AES-3 (name)
Add AES if needed

Land Use Pattern

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

Irrigated Area with Different Sources:

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

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Deep Black Soil	67.3% of total geographical area	669.5
2	Medium Deep Black Soil	18.3% of total geographical area	181
3	Shallow Black Soil	14% of total geographical area	142.2
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	109000	3100000	28.44
2	Maize	16000	320000	20
3	Niger	8000	30000	3.75
4	Pigeonpea (Tur)	14000	140000	10
5	Blackgram	8000	50000	6.25
6	Wheat	27000	530000	19.62
7	Mustard	9000	50000	5.55
8	Lentil	12000	60000	5
9	Linseed	5000	10000	2

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	64.5		
Feb, 22	51.7		
Mar, 22	00.0		
Apr, 22	2.1		
May, 22	4.2		

Jun, 22	148.1		
July, 2022	383.1		
Aug., 2022	503.0		
Sept., 2022	242.9		
Oct. 2022	47.0		
Nov. 2022	0.0		
Dec. 2022	0.0		

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	243107	10628 MT.	195.7ltr
Buffalo	57161	33220 MT.	264 kg
Sheep			
<i>Crossbred/ Indigenous</i>	367	..... MT wool	..... kg
Goats	47781	358 MT	..... kg
Pigs <i>Crossbred/ Indigenous</i>	6581	---	---
Rabbits	175		
Poultry			
Hens	104130	31.23 Lakh eggs	100 eggs/ bird/yr
Turkey and others	883		
Category	Area	Production	Productivity
Fish	3085 (ha)	3085 Q/ month	12 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Pushprajgarh	Pushprajgarh	Umargohan	Paddy, linseed, lentil, maize	Poor Nutrient Management, Poor waste management, Low productivity, Lack of improved variety, Forest fire, Over grazing in forest area which hamper regeneration of valuable timber specially Saal	INM, IPM, Varietal improvement, HOV
2	Pushprajgarh	Pushprajgarh	Ferrisemar	Paddy, linseed, lentil, maize	Poor Nutrient Management, Poor waste management, Low productivity, Lack of improved variety, Forest fire, Over grazing in forest area which hamper regeneration of valuable timber specially Saal	INM, IPM, Varietal improvement, HOV
3	Pushprajgarh	Pushprajgarh			Poor Nutrient	

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

Priority / Thrust areas

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

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
19	107	15	100

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
55	1375	303	21604

Seed Production (Qtl.)	Planting material (Nos.)
600	5000

B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	INM	Wheat			Demonstration of economic returns from soil test based nutrient application (As per SHC on Grid based) in transplanted Rice- Wheat cropping system	Method of vermicomposting & their benefits	New model for Integrated farming system (IS)		

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
IPM	0	0	0	0	2	0	0	0	0	2
IDM	1	0	0	0	2	0	0	0	0	3
TOTAL	1	0	0	0	2	0	0	0	0	5

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

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

Details of On Farm Trial (OFT)

OFT 1 - Assessment of Pre and Post Emergence herbicide in Paddy

Crop/Enterprise	Paddy
Title of on-farm trial	Assessment of Pre and Post Emergence herbicide in Paddy
Problem diagnosed	Low Yield due to heavy infestation of weeds

Farming situation	Rainfed
Production system and thematic area	Weed Management
Farmers' practices	No use of Weedicide
Details of technologies selected for assessment/refinement Treatments	T1 – Farmer Practice T2 - Pre- Emergence (Pretilachlor 50 % EC) & Post emergence (Bispyribac Sodium 10%)
Source of technology	DWR, Jabalpur 2018
No. of farmers	6
Area of each trial	0.5 acre
No of trial	6
No. of animals (if animals are part of OFT)	-
Critical input	Pretilachlor 50 % EC & Bispyribac Sodium 10%
Performance indicators Observation to be recorded	No of Weeds/m ² at 50 Days after transplanting, No of tillers/hill, 1000 Seed Weight (gm), Yield per ha, B C Ratio
Cost of input	750 per trail
Total cost	4500

OFT 2 - Assessment of Maize variety JM 218

Crop/Enterprise	Maize
Title of on-farm trial	Assessment of Maize variety JM 218
Problem diagnosed	Low yield of Local variety
Farming situation	Rainfed
Production system and thematic area	Varietal Replacement
Farmers' practices	Use traditional Variety
Details of technologies selected for assessment/refinement Treatments	T1 – Farmer Practice T2 - Assessment of Maize variety JM 218
Source of technology	JNKVV, Jabalpur

No. of farmers	5
Area of each trial	0.5 acre
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Maize – JM 218
Performance indicators Observation to be recorded	No. of grain/cob, 1000 Seed Weight (gm), Yield per ha, B C Ratio
Cost of input	280 per trail
Total cost	1400

OFT 3 - Assessment of Kodo variety JK 137

Crop/Enterprise	Kodo
Title of on-farm trial	Assessment of Kodo variety JK 137
Problem diagnosed	Low yield of Local variety
Farming situation	Rainfed
Production system and thematic area	Varietal Replacement
Farmers' practices	Use traditional Variety
Details of technologies selected for assessment/refinement Treatments	T1 – Farmer Practice T2 - Assessment of Kodo variety JK 137
Source of technology	JNKVV, Jabalpur
No. of farmers	5
Area of each trial	0.5 acre
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Kodo – JK 137
Performance indicators Observation to be recorded	No. of grain/plant, 1000 Seed Weight (gm), Yield per ha, B C Ratio

Cost of input	150 per trail
Total cost	750

OFT 4 - Assessment of Wheat variety HI 8759 (Pusa Tejas)

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Wheat variety HI 8759 (Pusa Tejas)
Problem diagnosed	Low yield of Local variety
Farming situation	Irrigated
Production system and thematic area	Varietal Replacement
Farmers' practices	Use traditional Variety
Details of technologies selected for assessment/refinement Treatments	T1 – Farmer Practice T2 - Assessment of Wheat variety HI 8759 (Pusa Tejas)
Source of technology	ICAR, IARI Regional Station, Indore
No. of farmers	6
Area of each trial	0.5 acre
No of trial	6
No. of animals (if animals are part of OFT)	-
Critical input	Wheat – HI 8759
Performance indicators Observation to be recorded	No. of tiller/plant, No. of grain/plant, 1000 Seed Weight (gm), Yield per ha, B : C Ratio
Cost of input	800 per trail
Total cost	4800

OFT-5 (Assessment of fungicides for management of rice blast)

Crop / Enterprise	Crop - Paddy
Title of on farm trial	Assessment of fungicides for management of rice blast
Problem diagnosed	Heavy loss in rice yield due to infestation of blast disease
Farmers' Practices	No use of fungicide for management of rice blast
Details of technologies selected for assessment	T ₁ Seed treatment with Pseudomonas flurosence (8gram /kg seed) + two spray of Tricyclazole 75WP (1 gram/liter water)
	T ₂ Seed treatment with Benomyl 50 WP (2 gram/kg seed) + two spray of Propicanazole 25 EC (1ml/liter water)
Source of technology	IARI, New Delhi 2018
Plot size	0.2 ha
No. of farmers	5
Total cost	4000
Critical input	<i>Pseudomonas flurosence</i> , Tricyclazole 75WP, Benomyl 50 WP, Propicanazole 25 EC

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	(i) Infestation %, (ii) Yield (iii) BC ratio
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OFT-6 (Assessment of ITK based practices for the Management of aphid in cabbage)

Crop / Enterprise	Crop (Cabbage)
Title of on farm trial	Assessment of ITK based practices for the Management of aphid in cabbage
Problem diagnosed	Heavy loss in rice yield due to infestation of aphid in cabbage
Farmers' Practices	No use of insect management practices
Details of technologies selected for assessment	T ₁ 2-3 spray of fresh animal urine diluted with water in ratio of 1:20 at 10 days interval
	T ₂ 2-3 spray of 20 days old animal urine diluted with water in ratio of 1:20 at 10 days interval
Source of technology	Traditional knowledge in Agriculture Page No.-17
Plot size	0.2 ha
No. of farmers	5
Total cost	-
Critical input	Cow urine
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	(i) Number of insects/leaf (ii) Yield (qtl/ha) (iii) BC ratio

OFT-7 (Assessment of chemicals and botanicals for management of bacterial wilt in tomato)

Crop / Enterprise	Crop- Tomato
Title of on farm trial	Assessment of chemicals and botanicals for management of bacterial wilt in tomato
Problem diagnosed	Heavy yield loss in tomato due to infestation of bacterial wilt in tomato
Farmers' Practices	No use of disease management practices
Details of technologies selected for assessment	T ₁ Soil drenching with streptomycin 100 ppm + Copperoxychloride 0.02%
	T ₂ Soil drenching with asafetida 1gram + turmeric 5gm in one liter of water
Source of technology	KVK, Tripura
Plot size	0.2 ha
No. of farmers	5
Total cost	3500/-
Critical input	streptomycin 100 ppm, Copperoxychloride 0.02%, asafetida ,turmeric
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	(i) Infestation%, (ii) Yield (Qtl/ha) (iii) BC ratio

OFT- 8 (Assessment of ITK based practices for the Management of root rot and damping off in tomato)

Crop / Enterprise	Crop- Tomato
Title of on farm trial	Assessment of ITK based practices for the Management of root rot and damping off in tomato
Problem diagnosed	Heavy yield loss in tomato due to infestation of fruit borer in tomato
Farmers' Practices	No use of disease management practices
Details of technologies selected for assessment	T ₁ 2 spray of leaf extract of <i>Cynodon dactylon</i> @ 10% at 5 days interval
	T ₂ Soil application of leaf extract of <i>Cynodon dactylon</i> @ 10% before sowing
Source of technology	Traditional knowledge in Agriculture Page No.-14
Plot size	0.2 ha

No. of farmers	5
Total cost	-
Critical input	<i>Cynodon dactylon</i>
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	(iv) Infestation%, (v) Yield (Qtl/ha) (vi) BC ratio

OFT- 9 (Assessment of ITK based practices for the Management of root rot and damping off in tomato)

Crop / Enterprise	Crop- Tomato
Title of on farm trial	Assessment of ITK based practices for the Management of root rot and damping off in tomato
Problem diagnosed	Heavy yield loss in tomato due to infestation of fruit borer in tomato
Farmers' Practices	No use of insect management practices
Details of technologies selected for assessment	T ₁ 2-3 spray of animal urine diluted with water in ratio of 1:20 at 10 days interval
	T ₂ Dusting of cow dung ash on tomato
Source of technology	Traditional knowledge in Agriculture Page No.-16
Plot size	0.2 ha
No. of farmers	5
Total cost	-
Critical input	<i>Cow urine, cow dung ash</i>
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	(i) Infestation% (ii) Yield (Qtl/ha) (iii) BC ratio

OFT-10 (Assessment of Bio fertilizer (Azatobacter, PSB) with recommended dose of fertilizer in wheat)

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Bio fertilizer (Azatobacter, PSB) with recommended dose of fertilizer in wheat
Problem diagnosed	Imbalance use of chemical fertilizer
Farmers' Practices	T1-Imbalance use of chemical fertilizer only. (NPKZnS= 20 : 10: 0:0:0)
Details of technologies selected for assessment	T ₂ T2-50% of RDF (60:40:20:25) through chemical fertilizer + 5kg Azatobacter + 5kg PSB culture/ ha, basal dose .
	T ₃ T3-25% of RDF (60:40:20:25) through chemical fertilizer + 5kg Azatobacter + 5kg PSB culture/ ha, basal dose.
Source of technology	JNKVV2000
Plot size	1Acre (4046.86Sq metre)
No. of farmers	05
Total cost	33,550Rs
Critical input	NPK(UEA,DAP,MOP) & AZOTOBACTER Culture

Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Yield q/ha B:C Ratio
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OFT -11 (Bio recycling of bio waste through Decomposer)

1	Enterprise	Compost
2	Title of on-farm trial	Bio recycling of bio waste through Decomposer
3	Problem diagnosed	Poor Waste Management
4	Farming situation	Rainfed
5	Production system and thematic area	INM
6	Farmers' practices	T1-Crop residue decompose at open pit
7	Details of technologies selected for assessment/refinement Treatments	T2- Decomposition of crop residue through Fungal base decomposer @ 500ml/500gm for one ton raw material T3- T2+ Bio decomposer @ 500 ml Bio decomposer (Bacterial base).
8	Source of technology	JNKVV 2020
9	No. of animals	0
10	No. of farmers	05
11	Critical input	Pseudomonas, Trichoderma & Biodigester
12	Cost of input	468Rs(T1 &T2)
13	Total cost	2340Rs
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Productionq/ha and B;C ratio

Detailed Information about OFT:

OFT:12 (Assessment of forest based apiary system)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agroforestry
Title of on-farm trial:	Assessment of forest based apiary system
Year/Season:	2023-2023
Farming situation:	Rainfed
Problem diagnosis:	Lack of knowledge about proper utilization of nearby forest
Thematic area:	AGF

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-	Non utilization of nearby forest
T2 –Recommended Practice-	forest based apiary
T3- Recommended Practice-	
Date of sowing:	7/7/2023
Date of harvesting:	7/11/2023
Source of technology:	FRI Dehradun (2014-15)
Characteristics of technology:	Extra income, Sustainability
Name of Crop/Enterprises:	Honey production
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 13 (Assessment of *Eucalyptus clone-316* of farmer field bund)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agroforestry
Title of on-farm trial:	Assessment of <i>Eucalyptus clone-316</i> of farmer field bund
Year/Season:	2023-23
Farming situation:	Rain fed
Problem diagnosis:	Lack of proper utilization of farmer field bund
Thematic area:	AGF
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-	Fallow bund
T2 –Recommended Practice-	<i>Eucalyptus clone-316</i>
T3- Recommended Practice-	
Date of sowing:	5/7/2023
Date of harvesting:	-

Source of technology:	OPM Amlai (2011-12)
Characteristics of technology:	Extra income, proper utilization of bund
Name of Crop/Enterprises:	<i>Eucalyptus</i>
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 14 (Assessment of income generation through agro-horti farming)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agroforestry
Title of on-farm trial:	Assessment of income generation through agro-horti farming
Year/Season:	2023-23
Farming situation:	Rain fed/ irrigated
Problem diagnosis:	Lack of knowledge about proper land use practices
Thematic area:	AGF
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-	Black gram- wheat
T2 –Recommended Practice-	Papaya intercropping
T3- Recommended Practice-	
Date of sowing:	7/6/2023
Date of harvesting:	9/10/2024
Source of technology:	MPKV Rahuri (2012-13)
Characteristics of technology:	High yield, Extra income, Sustainability
Name of Crop/Enterprises:	Papaya intercropping
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

OFT: 1

Title	Assessment of Market led Extension through Branding & Packaging of Rice
Season & Year	Kharif & 2023
Problem identified	Lack of Knowledge about Market led Extension Lack of Knowledge about Branding & Packaging
Thematic Area	Branding & Packaging of Rice
Farming situation	Rainfed
Name of Technology Intervention under study	Market led Extension
Farmers Practice	Farmer are selling Paddy in Local market
No. of replication (Farmers)	10

Results / findings

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

OFT:2

Title	Assessment of Market led Extension through Branding & Packaging of Honey
Season & Year	Kharif & 2023
Problem identified	Lack of Knowledge about Market led Extension Lack of Knowledge about Branding & Packaging
Thematic Area	Branding & Packaging of Honey
Farming situation	Rainfed
Name of Technology Intervention under study	Market led Extension
Farmers Practice	Farmer are selling Honey in Local market
No. of replication (Farmers)	10

Results / findings

Performance indicators/ parameters	Unit/ details
Behaviour Change	%
Knowledge Change	%

Income Enhancement	%
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Information about Home Science OFT:

OFT- 1

Crop/Enterprise	Sweet corn
Title of on-farm trial	Assessment of Income generation of farm women through sweet corn (Honey max/sugar 75) cultivation
Problem diagnosed	No extra Income generation
Farming situation	Rainfed, Irrigated
Production system and thematic area	Income generation
Farmers' practices	Traditional variety
Details of technologies selected for assessment/refinement Treatments	T1 Traditional variety(local variety) T2 Honey max/sugar 75
Source of technology	JNKVV
No. of farmers	5
Area of each trial	.25 acre
No of trial	5
No. of animals (if animals are part of OFT)	nil
Critical input	Seed and liquid fertilizer
Performance indicators Observation to be recorded	Average Cost of input (Rs/unit), Average Gross Return (Rs/unit), Average Net Return (Rs/unit), B:C Ratio
Cost of input	30000.00
Total cost	30000.00

OFT - 2

Crop/Enterprise	Honey Production & processing
Title of on-farm trial	Assessment of income generation of farm women through value addition (packaging) in honey.
Problem diagnosed	No extra Income generation
Farming situation	Rainfed /irrigated
Production system and thematic area	Income generation

Farmers' practices	No value addition
Details of technologies selected for assessment/refinement Treatments	T1: No value addition T2: Honey packaging T3
Source of technology	CAFRI, Jhansi
No. of farmers	5
Area of each trial	0.10 acre
No of trial	5
No. of animals (if animals are part of OFT)	Honey Bee
Critical input	Honey Box & Accessory
Performance indicators Observation to be recorded	Production per unit (qt/no/lit), Average Cost of input (Rs/unit), Average Gross Return (Rs/unit), Average Net Return, (Rs/unit), B:C Ratio
Cost of input	35000.00
Total cost	35000.00

OFT: 3

Crop/Enterprise	wheat
Title of on-farm trial	Assessment of nutri-cereal (DWB 187) for enhancing nutritional value & Income of farm family.
Problem diagnosed	Malnutrition & income generation
Farming situation	Rainfed + irrigated
Production system and thematic area	Nutritional security/ Availability of nutritional food/ Wheat. DWB 187 (zinc & iron rich variety).
Farmers' practices	Traditional variety
Details of technologies selected for assessment/refinement Treatments	T1: Traditional variety T2: Wheat DBW 187 (zinc & iron rich variety). T3
Source of technology	IIWBR
No. of farmers	5
Area of each trial	0.5 acre
No of trial	5
No. of animals (if animals are part of OFT)	Nil
Critical input	Seed , packaging material and pesticide etc.

Performance indicators Observation to be recorded	Per capita Consumption gm/ day, Nutrient Intake (Unit)- , Anthropometric measurements
Cost of input	30000.00
Total cost	30000.00

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Paddy	Varietal Replacement	Paddy Variety – IR 64 DRT 1	Seed & Seed Treatment	Kharif 2023	4	10	No of effective tillers/hill, No of Grains/panicle, 1000 seed weight, Yield per, B:C Ratio
2	Soybean	Varietal Replacement	Soybean Variety – JS 20-69	Seed & Seed Treatment	Kharif 2023	4	10	No of Grains/Pod, No. of branch/plant, 1000 seed weight, Yield/ha, B:C Ratio
3	Wheat	Varietal Replacement	Wheat variety – JW 3211	Seed & Seed Treatment	Rabi 2023-24	4	10	No. of effective tiller/m,2, No. of grain per spike, 1000 seed weight, Yield/ha, B:C Ratio
4	Chickpea	Varietal Replacement	Chickpea Variety – JG 14	Seed & Seed Treatment	Rabi 2023-24	4	10	No. of branch/plant, No. of Pod/plant, 1000 seed weight, Yield/ha, B:C Ratio
5	Paddy	IPM	Management of GLH and BPH in paddy	Thiamethoxam 25 %	Kharif, 2023	2	5	Number of insects/tiller, Yield, BC ratio
6	Pigeonpea	IPM	Management of pod borer in pigeonpea	Pheromone Trap, <i>Beauberia bassiana</i>	Kharif, 2023	2	5	Infestation %, Yield, BC ratio
7	Chickpea	IPM	Management of pod borer in chickpea	Pheromone Trap, <i>Beauberia bassiana</i>	Rabi, 2023	2	5	Infestation %, Yield, BC ratio
8	Chick	IDM	Management	Trichoderma	Rabi,	2	5	Infestation %, Yield, BC ratio

	pea		of pod borer in chickpea	, Pseudomonas	2023			Yield, BC ratio
9	Onion	HOV	Improved variety	Seeds	2023 kharif	0.75	5	Bulb weight (gm)
10	Tomato	HOV	Improved variety	Seeds	2023 rabi	0.75	5	Fruit/plant (numbers)
11	Plug tray for tomato seed	HOV	Nursery tray	Nursery tray	2023 rabi	0.40	5	GER, Mortality, Disease incidence %
12	Rice	Imbalance Use of Fertilizer	INM	80:40:30 (N:P:K)	Kharif	2	5	Yield q/ha & B:C Ratio
13	Wheat	Imbalance Use of Fertilizer	INM	60:40:20(N:P:K)	Rabi	2	5	Yield q/ha & B:C Ratio
14	Paddy	Drudgery Reduction	Ambika cono weeder	Ambika cono weeder & other accessory	Kharif	0.0025	10	Output *Est. Energy Expenditure kj/min. WHR beat/min% reduction in drudgery% increase in efficiency Cardiac Cost of Work% Saving of cardiac Cost
15	Vegetable all	Nutritional security	NKG	Seed & liquid fertilizer /pesticide	Rabi – Kharif	0.002	5	Nutrient Intake (Unit) Anthropometric measurements Per capita Consumption gm/day Energy (kcal) Protein (gm) Iron (mg) Calcium (mg) Increase in Weight (Kg), Increase in Height (cm) BMI

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	15	October, November, December, February, March	345
2	Farmers Training	13	October, November, December	360
3	Media coverage	8	October, November, December, February, March	-
4	Training for extension functionaries	2	December	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
Vermicomposting	Vermicompost	Kharif	5	5 unit	Poly vermibed, Trichoderma and Earthworm	B:C Ratio	Production q/ha, PH, OC%, Temperature, EC, NPK Content	Production q/ha, PH, OC%, Temperature, EC, NPK Content
Composting	Compost	Rabi	5	5 unit	Bio decomposer (Bacterial base) and Bio decomposer (Fungal base)	B:C Ratio	Production q/ha, PH, OC%, Temperature, EC, NPK Content	Production q/ha, PH, OC%, Temperature, EC, NPK Content

*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	Pigeonpea	Varietal Replacement	Variety - BDN 716	Seed, Seed treatment, Weedicide	Kharif 2023	10	25	Pod/plant, Seed/Pod, Yield/ha, B:C Ratio
2	Blackgram	Varietal Replacement	Variety – MU 2	Seed, Seed treatment, Weedicide	Kharif 2023	30	75	Pod/plant, Seed/Pod, Yield/ha, B:C Ratio
3	Niger	Varietal Replacement	Variety – JNC 30	Seed, Seed treatment, Weedicide	Kharif 2023	50	125	Yield/ha, B:C Ratio
4	Chickpea	Varietal Replacement	Variety – JG 36	Seed, Seed treatment, Insecticide	Rabi 2023	20	50	Pod/plant, Yield/ha, B:C Ratio
5	Field Pea	Varietal Replacement	Variety – IPFD 12-2	Seed, Seed treatment, NPK	Rabi 2023	10	25	Pod/plant, Seed/Pod, Yield/ha, B:C Ratio
6	Mustard	Varietal Replacement	Variety – RH 725	Seed, Seed treatment, Insecticide	Rabi 2023	20	50	Pod/plant, Seed/Pod, Yield/ha, B:C Ratio
7	Linseed	Varietal Replacement	Variety – RLC 79	Seed, Seed treatment, NPK	Rabi 2023	20	50	Yield/ha, B:C Ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	November & March	400
2	Farmers Training	16	July & November	400
3	Media coverage	8	November & March	-
4	Training for extension functionaries	-	-	-

Shade Net etc.)									
b) Fruits	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	1	1	7	3	10	10	5	15	25
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-
Soil fertility management	01	01	0	0	0	21	4	25	25
Soil and Water Conservation	01	01	0	0	0	22	3	25	25
Integrated Nutrient Management	01	01	0	0	0	22	3	25	25
Production and use of organic inputs	01	01	0	0	0	20	5	25	25
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition	2	2	0	0	0	2	48		50

Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI Agro-forestry	2	2	15	8	23	15	12	27	50
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	2	2	15	8	23	15	12	27	50
(B) RURAL YOUTH									
Production of organic inputs	01	05	0	0	0	0	1	9	10
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
TOTAL	01	05	0	0	0	0	1	9	10
(C) Extension Personnel	01	01	2	03	5	10	0	10	15
	01	01	2	03	5	10	0	10	15
TOTAL	01	01	2	03	5	10	0	10	15

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	Production technology of Miner Millets	1	0	0	0	20	5	25	25
November	F & FW	Production technology of Linseed	1	0	0	0	20	5	25	25
Horticulture										
May	F/FW	Layout techniques of plantation	1	8	2	10	10	5	15	25
June	F/FW	Pear based Agroforestry system	1	7	4	11	10	4	14	25
Home Science										
January	F/FW	Imp of value addition in wheat/NKG	1	0	0	0	12	13	25	25
Plant Protection										
January	F/FW	Production technology of diseases free seedlings of tomato	1	5	0	5	15	5	20	25
March	F/FW	Importance of deep summer ploughing in	1	5	0	5	15	5	20	25

		insects and diseases management								
May	F/FW	Natural Farming – Preparation of Beejamrut	1	5	0	5	15	5	20	25
July	F/FW	Integrated insects management in rice	1	5	0	5	15	5	20	25
September	F/FW	IPM in pigeon pea	1	5	0	5	15	5	20	25
November	F/FW	IPM in chickpea	1	5	0	5	15	5	20	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
June	F/FW	Rain Water harvesting	01	0	0	0	23	02	25	25
August	F/FW	Importance of bio digester for making of compost	01	1	01	2	20	03	25	25
April	F/FW	SFM- Soil testing and their importance in agriculture	01	0	0	0	0	16	9	25
July	F/FW	INM- Integrated Nutrient management for Paddy crop	01	0	0	0	0	21	4	25
May	F/FW	SFM- Importance of Soil Health	01	0	0	0	0	22	3	25
November	F/FW	INM- Integrated Nutrient management for Wheat crop	01	0	0	0	0	21	4	25
Agroforestry										
September	F/FW	Training & pruning management in agroforestry system	1	5	4	9	10	6	16	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duratio n in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Femal e	Total	Male	Femal e	Total	
Crop Production										
January	F & FW	Weed Management in Wheat	1	0	0	0	20	5	25	25
February	F & FW	Production technology of Summer Moong	1	0	0	0	20	5	25	25
April	F & FW	Importance of Summer Deep Ploughing	1	0	0	0	20	5	25	25
April	F & FW	Importance of Green Mannuring	1	0	0	0	20	5	25	25
May	F & FW	Production technology of Jwar	1	0	0	0	20	5	25	25
June	F & FW	Production technology of Maize	1	0	0	0	20	5	25	25
June	F & FW	Production technology of transplanted Rice	1	0	0	0	20	5	25	25
July	F & FW	Production technology of Soybean	1	0	0	0	20	5	25	25
November	F & FW	Production technology of Wheat	1	0	0	0	20	5	25	25
November	F & FW	Production technology of Chickpea	1	0	0	0	20	5	25	25
Horticulture										
July	F/FW	Nursery Management of onion	1	8	3	11	10	4	14	25
October	F/FW	Nursery Management through plug tray in tomato	1	7	2	9	10	6	16	25
February	F/FW	Production technology of plants	1	7	3	10	10	5	15	25
Home Science										
January	F & FW	Cultivation of drumsticks and its nutritional importance/ Cultivation of vegetables and its nutritional	1	0	0	0	10	15	25	25

Month/ Tentative Date	Clientele	Title of the training programme	Duratio n in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Femal e	Total	Male	Femal e	Total	
		importance.								
February	F & FW	Importance and Use of agricultural equipment's for drudgery reduction	1	0	0	0	15	10	25	25
March	F & FW	Importance of value addition in tomato	1	0	0	0	5	20	25	25
April	F & FW	Importance and Use of agricultural equipment's for drudgery reduction	1	0	0	0	10	15	25	25
May	F & FW	Mushroom production technology and its Nutritional importance	1	0	0	0	15	10	25	25
June	F & FW	Production technology of sweet corn	1	0	0	0	5	20	25	25
December	F & FW	Importance of value addition in honey(production packaging & marketing	1	0	0	0	10	15	10	25
Plant Protection										
February	F/FW	Insects and diseases managemnt in summer tomato	1	5	0	5	15	5	20	25
April	F/FW	Preparation of jeevamrut	1	5	0	5	15	5	20	25
June	F/FW	Importance of Bio-agents in soil diseases management in kharif crops	1	5	0	5	15	5	20	25
August	F/FW	Integrated diseases management in rice	1	5	0	5	15	5	20	25
October	F/FW	Importance of Bio-agents in soil diseases management in Rabi crops	1	5	0	5	15	5	20	25
December	F/FW	IPM in pea	1	5	0	5	15	5	20	25
Agriculture Extension (Capacity Building and Group Dynamics)										

Month/ Tentative Date	Clientele	Title of the training programme	Duratio n in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Femal e	Total	Male	Femal e	Total	
February	F/FW	Role of SHG in Agriculture development	1	-	-	-	20	5	25	25
March	F/FW	Branding & Packaging in Agriculture	1	-	-	-	20	5	25	25
August	F/FW	Group approach- Role of Group Approach in Agriculture	1	10	5	15	10	-	10	25
September	F/FW	ICT- Role of Electronic Media in Agriculture	1	10	5	15	10	-	10	25
October	F/FW	MLE- Role of Market Led Extension in Agriculture	1	-	-	-	20	5	25	25
Soil Science										
January	F/FW	INM- Method of vermicompostin g & their benefits	01	0	0	0	21	4	25	25
February	F/FW	INM- Making of compost through the biogdigester	01	0	0	0	22	3	25	25
March	F/FW	INM- Making of Vermicompost and their benefits	01	0	0	0	22	3	25	25
December	F/FW	INM- Importance of vermicompost in Agriculture	01	0	0	0	20	5	25	25
Agroforestry										
March	F/FW	Eucalyptus based Agroforestry system	1	8	4	12	8	5	13	25
April	F/FW	Importance of by-product of forest produce	1	7	4	11	7	7	14	25

Vocational Training Programme for Rural Youth:

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

Date		programme		Male	Female	Total	Male	Female	Total	
Crop Production										
May	Rural Youth	Integrated Farming System	3	0	0	0	10	0	10	10
Horticulture										
Livestock production										
Home Science										
November	RY	Imp of value addition in tomato	3	0	0	0	1	9	10	10
Plant Protection										
	RY	Production Technology of lac	5	3	2	5	3	2	5	10
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
December	RY	Production and use of organic inputs- (RY)- Vermicomposting & their benefits	05	0	0	0	0	1	9	10
Agroforestry										
December	RY	Agroforestry based integrated farming	3	2	3	5	3	2	5	10

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programm e	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April	Extension Functionaries	Production technology of Miner Millets	1	15	0	15	0	0	0	15
Horticulture										
Livestock production										
Home Science										
December	Extension Functionaries	Value addition in fruit & vegetables	1	3	1	3	8	3	11	15
Plant Protection										
December	Extension Functionaries	IPM in Kharif crops	1	12	3	15	15	0	15	30
Agriculture Extension (Capacity Building and Group Dynamics)										
October	Extension Functionaries	ICT- Role of ICT (IS)		-	-	-	20	5	25	25

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

ANNUAL ACTION PLAN 2023












KVK: Anuppur

Year of sanction: 2017

1.1 Name of the Sr. Scientist & Head with phone & mobile No

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

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	Sr. Scientist & Head	Dr. S.K. Pandey	Sr. Scientist & Head	Agricultural Extension	Level 13A 147600	05/02/2018	2018	9755362640	headkvk@igtntu.ac.in	
2	Subject Matter Specialist	Dr. Anita Thakur	SMS	Soil Science	Level 10 63100	10/01/2018	2018	9406955752	anitakvk@igtntu.ac.in	
3	Subject Matter Specialist	Mr. Yogesh Kumar	SMS	Agro forestry	Level 10 63100	10/01/2018	2018	7898370746	yogeshkvk@igtntu.ac.in	
4	Subject Matter Specialist	Dr. Anil Kurmi	SMS	Plant Protection	Level 10 63100	12/01/2018	2018	9425622616	anilkvk@igtntu.ac.in	
5	Subject Matter Specialist	Mr. Sandeep Chouhan	SMS	Agricultural Extension	Level 10 63100	15/01/2018	2018	9691241215	chouhankvk@igtntu.ac.in	
6	Subject Matter Specialist	Mr. Suneel Kumar Rathour	SMS	Multi Discipline	Level 10 63100	16/01/2018	2018	9685532161	rathourekvk@igtntu.ac.in	
7	Subject Matter Specialist	Mr. Suryakant Nagre	SMS	Agronomy	Level 10 63100	18/01/2018	2018	9907768553	sknagrekvk@igtntu.ac.in	
8	Programme Assistant	-	-	-	-	-	-	-	-	-
9	Computer Programmer / Programme Assistant	-	-	-	-	-	-	-	-	-
10	Farm Manager	-	-	-	-	-	-	-	-	-
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Mr. Sandeep Kumar	Stenographer		Level 04 28700	28/03/2018	2018	8989168018	sandeep.kvk@igtntu.ac.in	
13	Driver	Mr. Bharat Kumar Banjara	Driver		Level 03 24500	28/03/2018	2018	9753760617	bharat.banjara@igtntu.ac.in	
14	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	Mr. Mohit Puri	Skilled Support staff		Level 01 20300	27/03/2018	2018	8131541797	mohit.puri@igtntu.ac.in	
16	Supporting staff	Mr. Vibhor Chandra	Skilled Support		Level 01 20300	28/03/2018	2018	9907728692	vibhorkvk@igtntu.ac.in	

Month/ Tentative Date	Clientele	Title of the training programm e	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
December	Extension Functionarie s	IF- New model for Integrated farming system (IS)	01	01	2	03	5	10	0	10
Agroforestry										
November	Extension Functionarie s	Land utilization through fast growing tree species on bund	1	4	3	7	5	3	8	15

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration n	Client PF/ RY/ EF	No. of courses	No. of participants						Spor ing agen cy
						Male		Female		Total		
						Other	SC/ST	Other	SC/ST	Other	SC/ST		Total
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	15	255	115	370	5	0	5	260	115	375
Kisan Mela	2	610	110	620	15	2	17	625	112	737
Kisan Ghosthi	6	130	40	170	6	0	6	136	40	176
Exhibition	5	120	30	150	0	0	0	120	30	150
Film Show	20	800	200	1000	0	0	0	800	200	1000
Method Demonstrations	13	140	30	170	0	0	0	140	30	170
Farmers Seminar	2	50	10	60	0	0	0	50	10	60
Workshop	2	50	10	60	0	0	0	50	10	60
Group meetings	15	150	70	220	0	0	0	150	70	220
Lectures delivered as resource persons	19	500	200	565	60	12	62	560	212	772
Newspaper coverage	47	0	0	0	0	0	0	0	0	0
Radio talks	10	0	0	0	0	0	0	0	0	0
TV talks	8	0	0	0	0	0	0	0	0	0
Popular articles	15	1100	550	1650	10	2	12	1110	552	1662
Extension Literature	08	2300	800	3100	50	12	62	2350	812	3162
Advisory Services	36	11666	0	11666	0	0	0	11666	0	11666
Scientific visit to farmers field	35	70	12	82	3	0	3	75	10	85

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers visit to KVK	12	410	60	470	5	0	5	415	60	475
Diagnostic visits	14	55	15	60	10	0	10	65	15	80
Ex-trainees Sammelan	2	50	10	60	0	0	0	50	10	60
Soil health Camp	2	45	5	50	10	0	10	55	5	60
Animal Health Camp	2	45	5	50	10	0	10	55	5	60
Soil test campaigns	4	100	50	150	10	5	15	110	55	165
Celebration of important days (specify)	8	245	85	330	13	11	24	258	96	354
Others (Poshan Mah)	1	0	50	50	2	3	5	2	53	55
Total	303	18891	2457	21103	209	47	246	19102	2502	21604

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	JW 3288	250
	Paddy	JR 81	250
OILSEEDS	Soybean	RVS 2001-4	50
PULSES	Pea	IPFD 12-2	50
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	Thai guava	500
	papaya	Red lady	500
SPICES	-	-	-
VEGETABLES	Tomato	Arka samrat	2000
	Chilly	Pusha jwala	1500
	-	-	-
FOREST SPECIES	Khamer	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (specify)	-	-	-

Bio-products

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

LIVESTOCK

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

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

Date of start	Periodicity	Number of copies to be published
Jan-March 2023	Quarterly	1000
April-June 2023	Quarterly	1000
July-September 2023	Quarterly	1000
October-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	-	-	-
2	-	-	-
3	-	-	-

Success stories/Case studies identified for development as a case: 2.

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

S. No.	Training	Need analysis tools/methodology followed

1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	PRA
3	In-service personnel	PRA
4	methodology for identifying OFTs/FLDs	PRA
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	Medhakhar	Pusprajghar	25
2	Umargogan	Pushprajgarh	10
3	Nunghati	Pushprajgarh	15
4	Dondiya	Pushprajgarh	30
5.	Farrisemar	Pushprajgarh	12

1. No. of farm families selected per village : 20
2. No. of survey/PRA to be conducted: 30

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	Mini Soil Testing KT	01	working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	100	100	02	0
Water Samples	0	0	0	0
Total	100	100	02	0

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Farmer Welfare & Agri. Development Anuppur	Convergence programme
Department of Horticulture Anuppur	Convergence programme
Department of Fisheries Anuppur	Convergence programme
Department of Veterinary Anuppur	Convergence programme

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Farm Field School	Training etc.
Field Visit	Farmer solved problem by Scientist

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	Trainings, Awareness programme	500
February	Awareness programme	100
March	Awareness programme	100
April	Trainings, Awareness programme	100
May	Trainings, Awareness programme	100
June	Trainings, Awareness programme	100
July	Trainings, Awareness programme	100
August	Trainings, Awareness programme	100
September	Trainings, Awareness programme	100
October	Trainings, Awareness programme	100
November	Trainings, Awareness programme	100
December	Trainings, Awareness programme	100

Planning for Crop Cafeteria

Total Area of Crop cafeteria: Kharif 4000 Sq m Rabi 4000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	JR 81, JR 206, IR 64 DRT 1, MTU 1010, Danteshwari, Sahbhagi, Jeera Shankar, Chinnor, PS -1, Pusa Basmati 1121,		500
Soybean	Kharif	JS 2069, JS 2098, JS 2034, JS 9560, JS 20-116, RVS 2001-4, NRC - 128, NRC 130, NRC 136, NRC 138 NRC 142		500
Urd	Kharif	Indira Urad Pratham, Mukundra Urad 2, T U 94-2, Punt U 30, IPU 2-43		500
Moong	Kharif	PDM 139, Virat, Hum 1, Hum 2, Hum 12, Hum 16,		500
Maize	Kharif	JM 218, JM 216, JM 12, Jawahar Pop corn 1, Pusa Maize 1		500
Kodo	Kharif	CG -2, JK 98, JK 48, JK 137, Indira Kodo 1		500
Kutki	Kharif	JK -4, JK 36, BL 4, GV -2		500
Niger	Kharif	JNC 6, JNC 9, JNC 28, JNC 30, Birsa Niger 2, Birsa Niger 3		500
Wheat	Rabi	HI 1544, HI 1605, HI 1634, HI 1636, HI 1650, HI 1655, JW 3211, HI 8830, HD 4728, HI 8826, HI 8826, H 8737, HI 8759, JW 3288 JW 3173, HI 8823		1000
Chickpea	Rabi	JG 12, JG 14, JG 16, JG 24, JG 36, JG 315, Indira Chana 1, RVG 202, RVG 203, RVG 204		500
Fieldpea	Rabi	Aadarsh, Aman, Ambika, IPFD 12-2, Indira Matar, KN 5, KCMR 400, JP 885		500

Lentil	Rabi	RL 1, RL 8, RL 9, RL 315, Kota 2	500
Linseed	Rabi	RLC 133, RLC 79, RLC 92, RLC 143, RLC 148, RLC 161	500
Mustard	Rabi	PM 31, Giriraj, RH 725, RH 759, Pusa Mustard 26, RH 761	500
Safflower	Rabi	CG-1, Amigiri, PBNS-12, NATI 57, ISF 764	500

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Natural Farming Unit	Natural Farming Unit	30000	-
Lac production Unit	Lac production Unit	1000	-
GREEN NET	PLANT PRODUCTION	1000	5000 PLANT PRODUCE

1.3 Total land with KVK (in ha):2.4

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

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building				Merged with CIAE			
2	Farmers Hostel				Merged with CIAE			
3	Staff Quarters (6)				Merged with CIAE			
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	2010		17078	Running
Bolero(Jeep)	Nil	Nil		Nil
Other (Pl. specify)			Nil	Nil

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Xerox Photocopier	2017		Running
Multimedia Projector	2017		Running
Laptop	2017		Running

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

Sl. No.	Tentative Date
1	12.06.2023
2	04.12.2023

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

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

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

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AES-2 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AES-3 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AES-4 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Add AES if needed

Land Use Pattern

Particulars	Area ha
Total Geographical area (As per 2015-16)	277880
Forest	44106
Waste Land	31500
Other than cultivated area	200537
Cultivable waste and alkaline land	4700
Pastures	33800
Bushes	NA
Current Fallow	2900
Other Fallow	3900
Agricultural Land (ha)	153800
Area Sown (As per 2015-16)	1,50000 ha
Kharif	
Rabi	
Zaid	
Cropping Intensity	147%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5700
2	Well	28700
3	Tube well	27500
4	Ponds	-
5	Others	25600

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Deep Soil		167000
2	Medium Deep Soil		17600
3	Shallow Soil		9200

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

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

S. No	Crop	Area (000ha)	Production (000t.)	Productivity (kg /ha)
1	Soybean	124.65	260.4	1185
2	Paddy	18.95	46	3925
3	Pigeon pea	7.25	8	1275
4	Maize	3	10	1176

5	Wheat	87	272	3215
6	Gram	34	42	1465
7	Lentil	4.3	5.4	1275
8	Vegetables	6.5	125	210.0

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	11.6	21.53	8.91
Feb, 22	00	27	10.80
Mar, 22	00	34.4	17.7
Apr, 22	00	40.5	25.6
May, 22	00	40.6	19.01
Jun, 22	00	35.90	28.06
July, 2022	10.6	25.59	34.345
Aug., 2022	6.12	29.29	24.10
Sept., 2022	1.74	30.86	24.66
Oct. 2022	0.2	31.17	20.42
Nov. 2022	00	29.12	13.50
Dec. 2022	00	25.6	12.25

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

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

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

Priority / Thrust areas

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

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
04	16	05	05

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

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

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	IDM	Tomato	Low yield in tomato due to multiple diseases in Tomato	Assessment the varietal performance of multiple disease resistance varieties of tomato for Bhopal District	No	01	01	01	Nil

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment the varietal performance of multiple disease resistance varieties of tomato for Bhopal District	
Problem diagnosed	Low yield in tomato due to diseases (45-60%)	
Farmers' Practices	Tomato Var.SW-1508 (hybrid tomato) susceptible to LCV,BW and LB diseases, with the initial yield potential of 50-65t/ha and its crop duration between 150 -165days.	
Details of technologies selectedfor assessment	T ₁	Arka Rakshak -Triple disease resistance tomato hybrid against (LCV+BW+EB) with the initial yield potential of 75-80t/ha and its suitable for both fresh distance marketing as well as processing, crop duration 140 days.
	T ₂	Arka Smart: Triple disease resistance tomato hybrid against (LCV+BW+EB) with the initial yield potential of 80-85t/ha and its suitable for both fresh distance marketing as well as processing , crop duration 140 days.
	T ₃	T3:Arka Abbed : High yielding with multiple disease resistance (LCV+BW+EB+LB) with the initial yield potential of 70-75t/ha and its crop duration between 140 -150days.
	T ₄	Arka Apeksha : It has triple disease resistance to Tomato Leaf Curl Disease (Ty1+Ty2), Bacterial wilt and Early blight. Recommended for summer, kharif & rabi cultivation. It has a yield potential of 43 to 90 t/ha in 140- 150 days
Source of technology	IIHR, Bangalore	
Plot size	0.10 ha	
No. of farmers	04	
Total cost	10000	
Critical input	Seed and Fungicide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Percent Disease severity of individuals tomato variety, Plant height, No of fruit/plant, Yield (q/ha) and BC ratio	

OFT - 2

Crop / Enterprise	Capsicum	
Title of on farm trial	Integrated Diseases Management of Leaf Curl Viral of Capsicum	
Problem diagnosed	Low yield in capsicum due to heavy diseases severity range from 40-80% (Dep. Of Hort. and Food processing .MP,2020)	
Farmers' Practices	Application of Profenophos @ 1.5ml/litre water	
Details of technologies selectedfor assessment	T ₁	2-3 Rows of border crops of Maize all around the capsicum plots and spray NSKE 0.5% alternate with Ghan Jeeva Mitra (5 litre Ghan jeeva Mitra dissolve in 100 liter water) .
	T ₂	2-3 Rows of border crops of Maize all around the capsicum plots and spray NSKE 0.5% + Spray of Agniastra 10ml / litre of water
	T ₃	2-3 Rows of border crops of Maize all around the capsicum plots and spray NSKE 0.5% alternate with Acetamiprid 0.3g / litre of water
Source of technology	(Source: IIVR Varanasi ,2020)	
Plot size	0.05 ha	
No. of farmers	04	
Total cost	12000	

Critical input	Seed, Fungicide and Insecticide
Performance indicators:	Percent Disease severity , Plant height, No of fruit/plant, Yield (q/ha) and BC ratio

OFT- 3

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of various control measures for damping off diseases in tomato crop.
Problem diagnosed	Due to the damping off seedling mortality range from 35 to 67%
Farmers' Practices	Farmers Practice : 1.5kg FYM/M ² + application of fungicide after disease appearance with Mancozeb @ 3-4g/lit water
Details of technologies selected for assessment	T₁ | Soil solarization of seed bed (150-200 micron polythene) + Neem cake @400g/m
	T₂ | Soil solarization of seed bed (150-200 micron polythene) +Soil treatment with Trichoderma viridae@10g/m ² with FYM
	T₃ | Soil treatment with Trichoderma viridae @ 10g/m ² + Seed treatment with Trichoderma viridae@10g/kg seed
Source of technology	Dep. Of Hort. and Food processing .MP,2020
Plot size	0.025 ha
No. of farmers	04
Total cost	10000
Critical input	Seed and Fungicide
Performance indicators:	Percent Disease severity , Plant height, No of fruit/plant, Yield (q/ha) and BC ratio

OFT- 4

Crop / Enterprise	Brinjal
Title of on farm trial	Assessment of the performance of different pest management practices for shoot, fruit borer and fruit rot disease in brinjal
Problem diagnosed	Low productivity and profitability as well as higher insecticidal load were identified as the key problem in cultivation of brinjal in District
Farmers' Practices	Farmers practice (Spray of cypermethrin @2-3ml/lit of water
Details of technologies selected for assessment	T₁ | Use of pheromones traps @12traps/ha +Mechanical destruction of infested shoot and fruits borer .
	T₂ | Application of Neem cake@250kg/ha(20-25g/pit) at the time of transplanting followed by 4 foliar spray(Neemban@ 5ml/L+Ridomil@0.25% at 15days interval , initiating spraying at 45 days after transplanting.
	T₃ | Neemban @ 5ml/lit + Ridomil@0.25% at 15days interval initiating spraying at 45 days after transplanting
Source of technology	
Plot size	0.025
No. of farmers	04
Total cost	8000
Critical input	Seed ,Fungicide and Insecticide
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Percent insect infestation , Plant height, No of fruit/plant, Yield (q/ha) and BC ratio

Detailed Information about OFT:

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

Information about Extension OFT:

Title	-
Season & Year	-
Problem identified	-
Thematic Area	-
Farming situation	-
Name of Technology Intervention under study	-
Farmers Practice	-
No. of replication (Farmers)	-
Results / findings	
Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

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

Frontline Demonstrations

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

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

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	01	Year 2023	100
2	Farmers Training	02	Year 2023	50
3	Media coverage	05	Year 2023	
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
Herbicide strip applicator-cum-planter	Wheat	RABI-2023	10	05 ha	Herbicide and Seed	Plant population/M2, Yield (q/ha),BC Ratio		
ICAR-CIAE Seed Cum Fertidril with two stage fertilizer application system	Soybean	Kharif-2023	10	5 ha	Seed and Fertilizer	Plant population/M2, Yield (q/ha),BC Ratio		

Mechanical Inter and Intra Row Weeder for Wide Spaced Field Crops	Maize and Soybean	Kharif-2023	10	5 ha	Inter and Intra Row Weeder	Plant population/M2, Yield (q/ha),BC Ratio		
Tractor drawn eight row garlic clove dibbler	Garlic	RABI-2023	02	02 ha	Seed	Plant population/M2, Yield (q/ha),BC Ratio		
ICAR CIAE Tractor drawn 9- row drum type pneumatic planter	Green Gram/Black Gram	Zyad 2023	10	05 ha	Seed	Plant population/M2, Yield (q/ha),BC Ratio		

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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	-	-	-	-	-	-	-	-

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						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	02	1-2	15	10	50				50
Resource Conservation Technologies									
Integrated Farming									
Water management									
Seed production	04	1-2	15	10	50				100
Integrated Crop Management	02	1-2	15	10	50				50
Total									
a) Vegetable & fruit Crops									
Off-season vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
Total									
b) Fruits	01	1-2	15	10	25				25
Management of young plants/orchards									
Total									
c) Ornamental Plants									
Total									
d) Plantation crops									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							Grand Total
			Others			SC/ST				
			Male	Female	Total	Male	Female	Total		
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	01	1-2	20	10	30	10	40			40
Integrated Disease Management	01	1-2	20	10	30	10	40			40
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Total										
VIII Fisheries										
Integrated fish farming										
Total										
IX Production of										

Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL	3 1-2								75

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	-	-								
Kisan Mela	01	150	100	250						250
Kisan Ghosthi	02	50	30	80						80
Exhibition	-									
Film Show	-									
Method Demonstrations	-									
Farmers Seminar	-									
Workshop	01	150	100	250						250
Group meetings	05			50						50
Lectures delivered as resource persons	10	100	50	150						150
Newspaper coverage	10									
Radio talks	04									
TV talks	01									
Popular articles	0									
Extension Literature	-									
Advisory Services	30									
Scientific visit to farmers field	28									
Farmers visit to KVK	50	500	300	800						800
Diagnostic visits	10									
Exposure visits	20									
Ex-trainees Sammelan	-									
Soil health Camp	01									
Animal Health Camp	-									
Agri mobile clinic	-									
Soil test campaigns	-									
Farm Science Club Conveners meet	-									
Self Help Group Conveners meetings	-									
Mahila Mandals Conveners meetings	-									
Celebration of important days (specify)	05	100	50	250						250
Others (pl. specify)										
Total	178	1050	630	1830						1830

Target for Production and supply of Technological products

SEED MATERIALS

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

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango, guava, Custard apple, Jamun, Anola, Fig, Papaya, Bel, etc	Mango-Dashary , Langra, Amrapali Guava-L49, etc	10000
SPICES	Nil	Nil	Nil
VEGETABLES	Tomato, Brinjal, Onian, Capcicum,etc	Tomato- Manisha, Arka Rakshak, Arka Abhed, Brinjal – Rajni,PPL, Pant Samrat Onion-ALR, Red 3 Capsicum- Californiya wonder,	25000 seedlings
FOREST SPECIES			
ORNAMENTAL CROPS	Crotan , Tulsi, Gulab, Gudhal , Chandni, Mogra,		2000
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost		01 Unit	500kg
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-December	Quarterly	--

Details of Electronic Media to be Produced

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

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

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

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

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Sukaliya	Berasia	17
2	Kacchi Barkheda	Phanda	15
3	Gol Khedi	Phanda	10
4	Bhairo Pura	Phanda	8
5	Binapur	Phanda	10
6	Kalyanpura	Phanda	10
7	Raipur	Berasia	18
8	Kuthar	Berasia	20

1. No. of farm families selected per village :

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

3.11. Activities of Soil and Water Testing Laboratory

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	40	40	07	--
Water Samples	-	-	--	-
Total	40	40	07	--

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS-2029		5000
Gram	Rabi	RVG-201		5000

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Crop cafeteria	Finger millet , Barnyard millet, Jowar, Bajra, Soybean, Paddy	500	

ANNUAL ACTION PLAN 2023

KVK BURHANPUR

Year of sanction: 2007

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sandip Kumar Singh	6265002626	9359426101	Sandipsingh11@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Sandip Kr. Singh	Sr. Scientist and Head	Agronomy	131400	21.03.2022	21.03.2022	9359426101	Sandipsingh11@rediffmail.com	
2	Subject Matter Specialist	Shri. Bhupendra Singh	SMS/ Scientist 1	Agronomy	69050	16.09.2013	16.09.2013	9424840115	bhupendra66666@gmail.com	
3	Subject Matter Specialist	Smt. Monika Jaiswal	SMS/ Scientist 2	Extension	69050	16.09.2013	16.09.2013	9806247711	monikajaiswal8@rediffmail.com	
4	Subject Matter Specialist	Shri. Kartikey Singh	SMS/ Scientist 3	Plant Protection	69050	18.09.2013	18.09.2013	9424417643	kartikey.malapat@gmail.com	
5	Subject Matter Specialist	Smt. Megha Vibhute	SMS/ Scientist 4	Horticulture	69050	19.09.2013	19.09.2013	8817454047	meghavibhute@gmail.com	
6	Subject Matter Specialist	Shri. Amol Deshmukh	SMS/ Scientist 5	Animal Husbandry	67020	01.01.2016	01.01.2016	9096870449	amold2010@gmail.com	
7	Subject Matter Specialist	Shri Rahul Satarkar.	SMS/ Scientist 6	Genetics & Plant Breeding	56100	21.03.2022	21.03.2022	9826936777.	satarkarahul@gmail.com	
8	Programme Assistant	VACANT (since 21.03.2022)								
9	Computer Programmer/ Programme Assistant	Shri. Mohd Tauheed	Computer Programmer	M.Com PGDCA	53640	17.07.2007	17.07.2007	9479604311	tauheed.kvkburhanpur@gmail.com	
10	Farm Manager	Shri. Sandeep Rathod	Farm Manager	M.Sc. Ag.	43610	23.12.2014	23.12.2014	7745921204	sandiprathod443@gmail.com	
11	Assistant	Shri Sayed Navid	Accountant / superintendent	M.Com MBA	43610	22.12.2014	22.12.2014	8103646884	sayednavidquadrif29@gmail.com	
12	Jr. Stenographer /	Smt. Afrin Syed	Stenographer	B.Com.	39780	17.07.2007	17.07.2007	9827304942	Afrin.kvkburhanpur@gmail.com	

	Comp. Operator									
13	Driver	Shri. Shakil Uddin	Driver	8 th	30120	17.07.2007	17.07.2007	9755810055	kvkburhanpur@rediffmail.com	
14	Driver	Shri. Wasim Sahab	Driver	8 th	30120	17.07.2007	17.07.2007	9039547508	kvkburhanpur@rediffmail.com	
15	Supporting staff	Shri. Manoj Tayde	Supporting staff, if any	BA	27250	17.07.2007	17.07.2007	9926057804	manojtayde178@gmail.com	
16	Supporting staff	Shri. Mahesh Singh	Supporting staff, if any	10 th	27250	17.07.2007	17.07.2007	9179621744	kvkburhanpur@rediffmail.com	

1.3 Total land with KVK (in ha): 21.6

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

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2011.2012	550 Sqm..	5500000.00	March 2009.10	550 Sqm..	Good
2	Farmers Hostel	ICAR	2011.2012	305 Sqm..	3050000.00	March 2009.10	305 Sqm..	Good
3	Staff Quarters (Nos. 06)	ICAR	2011.2012	400 Sqm..	4000000.00	March 2009.10	400 Sqm..	Good
4	Demonstration Units (Nos. 06)	-	-	-	-	-	-	-
4.1	Poultry Unit	MKTY	2017-18	1500Sqf.	300000.00	2016-17	1500Sqf.	Working
4.2	Goatery unit	MKTY	2017-18	3000 Sqf	400000.00	2016-17	3000 Sqf	Working
4.3	Livestock unit	ICAR IFS	2017-18	1500 Sqf	547860.00	2017-18	1500 Sqf	Working
4.4	Vermicomposting Unit	KVK	2020-21	1600 Sqf			1600 Sqf	Working
4.5	Azolla Unit	KVK	2018-19	720 Sqf			720 Sqf	Working
4.6	Natural farming Unit	KVK	2022-23	1 ha	-	-	1 ha	Working
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2007	512475.00	-	Good
Motor Cycle 2	2010	-	-	-
Bolero(Jeep)	2019	800000.00	48709	Good
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

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

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

S. No.		Tentative Date
1	Kharif	May 2023
2	Rabi	October 2023

2. DETAILS OF DISTRICT**Major farming systems / enterprises (based on the Agro.ecological situation analysis made by the KVK) Add AES if needed**

S. No.	Farming system/enterprise	Description
1	AES – 1 Nimar valley Agro climatic Zone	Banana-Gram/Wheat/Maize Cotton-Wheat/Gram Soybean-Maize Onion/Coriander/Watermelon
2	AES – 2 Nimar valley Agro climatic Zone	Soybean-Wheat/gram Cotton-Gram Maize-Wheat

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

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

**SWOT Analysis of each Agro Ecological Situations of district
AES.1 (Nimar valley Agro climatic Zone (MP-11))**

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> • Availability of land resources enriched with black cotton soil • Farmers attraction towards cultivation of fruit crop ie Banana • Potential area for cultivation of cereals and pulses due to suitable agro climatic condition • Suitable climate condition for cattle, goat and poultry rearing 	<ul style="list-style-type: none"> • Poor soil fertility management unawareness about green Manuring, composting techniques • Imbalance use of fertilizers and insecticide specially blind use of urea • Reluctance of farmers towards modern varieties and their POP, faith in traditional or old varieties • Water level of the district is very low due to banana cultivation long year • Cultivation with very low input and unawareness /negligence for use of available natural resources 	<ul style="list-style-type: none"> • Scope for promotion of natural farming and its trade at national and global level • Promotion of horticultural crops ,fruits and vegetables in different pocket of the district • Favorable condition for promotion of the medicinal crop, aromatic plants and spices in the district • Improvement in the production of cattle, goat and poultry • Improvement in the productivity of pulses and cereal 	<ul style="list-style-type: none"> • Erratic rainfall(Untimely and unseasonal) which causes soil loss and severe infestation of insect pest and diseases • Climatic storms causes maximum destruction of Banana field • Frosty weather condition during winter which causes crop loss and attack of insect and pest result into poor productivity • Attack of wild boar

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

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> • Availability of land resources enriched with black cotton soil • Farmers attraction towards cultivation of fruit crop ie Banana • Potential area for cultivation of cereals and pulses due to suitable agro climatic condition • Suitable climate condition for cattle, goat and poultry rearing 	<ul style="list-style-type: none"> • Poor soil fertility management unawareness about green Manuring, composting techniques • Imbalance use of fertilizers and insecticide specially blind use of urea • Reluctance of farmers towards modern varieties and their POP, faith in traditional or old varieties • Water level of the district is very low due to banana cultivation long year • Cultivation with very low input and unawareness /negligence for use of available natural resources 	<ul style="list-style-type: none"> • Scope for promotion of natural farming and its trade at national and global level • Promotion of horticultural crops ,fruits and vegetables in different pocket of the district • Favorable condition for promotion of the medicinal crop, aromatic plants and spices in the district • Improvement in the production of cattle, goat and poultry • Improvement in the productivity of pulses and cereal 	<ul style="list-style-type: none"> • Erratic rainfall(Untimely and unseasonal) which causes soil loss and severe infestation of insect pest and diseases • Climatic storms causes maximum destruction of Banana field • Frosty weather condition during winter which causes crop loss and attack of insect and pest result into poor productivity • Attack of wild boar

Land Use Pattern

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

Cropping Intensity (%)	147
------------------------	-----

Irrigated Area with Different Sources:

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

Soil types

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

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

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

S. No	Crop	Area (ha)	Production (Qt.) or kg	Productivity (Q/ha) or Ton/ha
1	Rice	0.49	07.10	1450
2	Maize (Kharif)	18.85	761.54	4040
3	Jowar	4.94	181.58	3675
4	Pearl Millet	0.01	0.01	1050
5	Black Gram	1.20	06.96	580
6	Green Gram	1.25	07.25	580
7	Pigeonpea	6.99	122.32	1750
8	Sesame	0.21	02.25	1050
9	Groundnut	0.36	06.55	1795
10	Soybean	14.00	234.50	1675
11	Cotton	37.90	672.72	1775
12	Others	32.30	00.00	00
13	Wheat	22.38	85.06	3850
14	Maize (Rabi)	8.30	65.15	7900
15	Chickpea	21.72	41.49	1910
16	Pea	0.02	0.03	1250
17	Lentil	0.02	0.02	750
18	Mustard	0.01	0.01	1160
19	Flax	0.01	0.01	860
20	Safflower	0.01	0.01	930
21	Sugarcane	4.90	332.46	67850
22	Banana	20522	1436540	70
23	Guava	154	2156	14
24	Mango	135	1890	14
25	Papaya	135	10125	75
26	Pomegranate	197	3152	16
27	Lemon	270	3510	13
28	Brinjal	250	4536	18
29	Green Chilli	210	4935	23-50
30	Colocasia	110	1925	17-50
31	Ladyfinger	180	2160	12

32	Onion	726	14520	20
33	Tomato	325	19500	60
34	Red Chilli	496	1240	2-50
35	Turmeric	638	19140	30
36	Ginger	212	5300	25

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	1207.5	10	31
Feb, 22		12	34
Mar, 22		18	39
Apr, 22		23	40
May, 22		21	41
Jun, 22		22	41
July, 2022		22	30
Aug., 2022		22	33
Sept., 2022		20	32
Oct. 2022		15	32
Nov. 2022		12	31
Dec. 2022		11	31

Production and productivity of livestock, Poultry, Fisheries etc.

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

Details of Operational area / Villages (2022)

S. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Burhanpur	Burhanpur	Biroda, Loni, Patonda, Adgaon, Nachankheda, Jainabad, Umarda, Bhavsa etc	Banana, Soybean, Cotton, Maize, Chickpea, Wheat, Vegetable, onion, Turmeric and Goatery & Poultry	CMV, Sigatoka, Pinkwall worm, Falls army worm, IPM approach to manage insect pest unavailability of improved breed of poultry & Goatery, unavailability of green fodder, awareness of vaccination	Promotion of Integrated farming system, Livestock up gradation and Management, Seed replacement- use of high yielding varieties tolerant to biotic and abiotic factors, Promotion of Horticultural crops., Crop Diversification, Soil Health Improvement, Pest management in crops, Water Conservation and Management, Employment generation for rural youths through agri. Enterprises, Strengthening of marketing network
2	Nepanagar	Khaknar	Chandni, Andharwadi, Dawali, Guradia, Saikheda, Pipiraiyat,			
3	Khaknar	Khaknar	Nimandad, Dedtalia, Karkheda, Dhaba, Zhirmiti, Manjrod kala, Manjrod Khurd, Badnapur, Navra,			

Priority / Thrust areas

S. No.	Particulars
1.	Weed management
2.	Nutritional Security
3	Seed replacement- use of high yielding varieties tolerant to biotic and abiotic factors
4	Promotion of minor millets
5	Quality Production
6	Crop Diversification
7	Insect Pest & Disease management in Crop
8	Seed Production Technology
9	Promotion & awareness on Natural Farming
10	Awareness on Waste Decomposition
11	Promotion & Awareness on ITK
12	Disease Management in animals
13	Livestock up gradation and Management
14	Improvement of green fodder production
15	Feed Management
16	Nutrient management in crop
17	Promotion of intercropping
18	Value addition & food processing
19	Income Generation
20	Post harvest management practices
21	Promotion & awareness on new technologies in agriculture : protected cultivation, drone technology, integrated farming, Resource conservation technology, Cropping System & Water Management
22	Crop Production Technology
23	Improvement of Soil health

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	240	14	140

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
72	1800	20	1000

Seed Production (Qtl.)	Planting material (Nos.)
200	10000*

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

B. Abstract of interventions to be undertaken

S. No.	Thrust area/ Thematic area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	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	Weed management	Soybean Wheat	Low income due to high labor	Assessment on post emergence weedicide	Demonstration as pre	Weed Management	-	Field day, Media Coverage	-

			cost		emergenc weedicide				
2	Nutritional Security	Vegetables and Fruits	Nutritional Security	-	Demo. on nutritional kitchen garden	-	Nutritional Kitchen Garden	Field day, Media Coverage	Supply of seeds, planting materials etc.
3	Seed replacement - use of high yielding varieties tolerant to biotic and abiotic factors	Wheat Onion Okra Chickpea Soybean	Low income due to use of old and traditional varieties	Assessment on JS-2029 & 2069, Assessment on RVG-203 & 204, Assessment on ACR-1 &	Demo. on variety HI-1544 , Demo. on DBW-187, Demo. on Bhimashakti/red , Demo. on Kashi Lalima, Demo. on Phule vikram	-	-	Field day, Media Coverage	-
4	Promotion of minor millets	Pearl millet Kodo Millet Kutki Millet	Nutritional Security & Income Generation	Assessment on variety ABH-1200, Dhansakti, Assessment on variety JK-22, Parbhani Shakti-1	Demo. on variety JK-137, Demo. on JK-4	-	-	Field day, Media Coverage	-
5	Quality Production	Banana	Low income due to low quality production	-	Demo. on skirting bag	FIR technique	-	Field day, Media Coverage	-
6	Crop Diversification	Sweet corn	Low income due to low production	-	Demo. on variety HI – BRIX 39/53	-	-	Field day, Media Coverage	-
7	Insect Pest & Disease management in Crop	Maize Pigeon pea Soybean Watermelon Chickpea Pigeon pea Onion Banana Cotton Watermelon	Low income due to low production	Assessment on control of pod borer, Assessment on control of sucking pest, Assessment on purple blotch,	Demo. on fall army worm, Demo. on Fusarium wilt disease	Insect Pest & Disease management in Crop: CMV, Fall army worm, soil & seed borne disease, YMV, Sigatoka, Pod borer,	IPM in banana, Wilt management in chickpea, sucking pest management,	Field day, Media Coverage	-

				Assessment on powdery mildew					
8	Seed Production Technology	Soybean Sugarcane chickpea	Low income generation	-	-	Seed Production Technology	-	-	-
9	Promotion & awareness on Natural Farming	Chickpea Green gram Onion	Low income due to high production cost	Assessment of natural farming component	-	Natural farming	Natural farming	Awareness Programs, Media Coverage	-
10	Awareness on Waste Decomposition	Sugarcane Banana	Low income due to high production cost	-	Demo. on waste decomposer	-	-	Field day, Media Coverage	-
11	Promotion & Awareness on ITK	Green Chilli	Low income due to high production cost	-	Demo. on ITK	-	-	Awareness Programs, Field day, Media Coverage	-
12	Disease Management in animals	Buffalo	Mastitis	-	Demo. on control of mastitis	Disease Management in poultry & goatery, Vaccination & their importance	-	Field day, Media Coverage	-
13	Livestock up gradation and Management	Japanese Quail	Low income	Assessment on improved poultry breed kaveri & sonali	Demo. of Japanese quail	Goatery production, Poultry Production,	-	Field day, Media Coverage	-
14	Improvement of green fodder production	Berseem	Low milk production	-	Demo. of green fodder feeding	Green fodder production management	-	Field day, Media Coverage	-
15	Feed Management	Cattle	Low milk production	Assessment on bypass fat, Assessment on bypass protein, Assessment on chelated trace minerals	Demo. on probiotics	Silage making, Feed & Nutrition Management, Azolla production	-	Field day, Media Coverage	-
16	Nutrient management in crop	Green chilli Banana	Low income due to low production	Assessment on foliar spray of NAA	-	Fertigation technology	-	-	-
17	Promotion of intercropping	Banana	Low income due to low	Assessment on banana	-	-	Raising additional income	-	-

	g		production	based intercropping			through intercropping		
18	Value addition & food processing	Vegetable & fruits	Low income generation	-	-	-	Value addition & food processing	-	-
19	Income Generation	vermicompost production, nursery management, poultry production management, seed production	Low income generation	-	-	Backyard poultry production, backyard nutritional kitchen garden,	-	RY training on vermicompost production, nursery management, poultry production management, seed production	-
20	Post harvest management practices	-	High loss in storage	-	-	Post harvest management practices	-	-	-
21	Promotion & awareness on new technologies in agriculture : protected cultivation, drone technology, integrated farming, Resource conservation technology, Cropping System & Water Management	Protected cultivation, Drone technology, Integrated farming, Resource conservation technology, Cropping System & Water Management	Lack of knowledge towards new technologies in agriculture	-	-	Protected cultivation, Drone technology, Integrated farming, Resource conservation technology, Cropping System & Water Management	-	-	-
22	Crop Production Technology	Spices	Low income generation	-	-	Spices production, Rejuvenation of old orchard, Integrated crop management	-	-	-
23	Improvement of Soil health	-	Poor soil health	-	-	Natural farming, ITK, Soil testing	-	-	-

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Vegetables	Fruits	Millets	TOTAL
Varietal Evaluation	-	1 (Soybean)	1 (Chickpea)	1 (Coriander)	-	2 (Pearl millet, Sorghum)	05
Weed	1	-	-	-	-	-	01

Management	(Wheat)						
Natural Farming	-	-	3 (Chickpea, Green Gram, Onion)	-	-	-	03
IDM	-	-	-	2 (Onion, Coriander)	-	-	02
IPM	-	1 (Soybean)	1 (Pigeon pea)	-	Watermelon	-	03
Nutrient Management	-	-	-	1 (Green Chilli)	-	-	01
Intercropping	-	-	-	-	Banana	-	01
EXT & TOT	-	2 (Soybean)	2 (Chickpea, Pigeon pea)	-	-	-	04
TOTAL	01	04	07	04	02	02	20

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

Thematic areas	Cattle	Poultry	Buffalo	TOTAL
Breed Evaluation	-	01	-	01
Feeding Management	02	-	01	03
TOTAL	02	01	01	04

Details of On Farm Trial (OFT)

OFT.1 (Agronomy) Kharif

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of High yielding varieties of soybean (II nd Year)
Problem diagnosed	Low yield of soybean due to use of old variety JS-335
Farmers' Practices	T ₁ JS - 335 1994
Details of technologies selected for assessment	T ₂ JS – 2029 (Maturity 90-95 days, Yield 25-30qt/ha, Resistant to YMV, pest and charcoal rot) 2014 T ₃ JS – 2069 (Maturity 93-95 days, Yield 25-28qt/ha, Multiple Resistant to disease) 2016
Source of technology	JNKVV, Jabalpur
Plot size	0.2 ha/farmer
No. of farmers	10
Total cost	10000
Critical input	Soybean Seed Variety JS – 2029 & JS - 2069
Performance indicators: Technical. yield (q/ ha) Economic Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

OFT. 2 (Agronomy) Rabi

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of post emergence weedicide in wheat (1 year)
Problem diagnosed	Low yield and increase in cost of cultivation
Farmers' Practices	T ₁ Hand weeding
Details of technologies selected for assessment	T ₂ Spray of clodinafop 60gm ai/ha + metsulfuron methyl @ 4 gm .ai/ha at 25 - 30 DAS T ₃ Spray of sulfosulfuron 25gm ai/ha + metsulfuron methyl @ 4 gm. ai/ha at 25-30 DAS
Source of technology	IARI, Indore, 2015 july extension bulletin Ist
Plot size	0.2 ha/farmer
No. of farmers	10
Total cost	10000/-
Critical input	Weedicide : clodinafop & sulfosulfuron

Performance indicators: a) Technical. yield (q/ ha) Economic Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
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OFT. 3 (Agronomy) Rabi

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of natural farming component in chickpea crop
Problem diagnosed	Soil health deterioration due to non-judicious use of chemical fertilizer
Farmers' Practices	T ₁ use of chemical fertilizers
Details of technologies selected for assessment	T ₂ N:P:K:S::20:50:20:20 kg/ha T ₃ Natural farming ingredients from sowing with bijamrut and 4 application of Jivamrit after 21 days interval and application of 1 st spray of Nimastra and 2 nd spray of Bramhastra a week interval of flowering stage and Dashparni ark at pod filling stage
Source of technology	"Kam lagat Prakratic Kheti" Book, Acharya Devvrat, 2019
Plot size	0.2 ha/farmer
No. of farmers	10
Total cost	10000/-
Critical input	Sulphur+ Natural farming components
Performance indicators: i) Technical. yield (q/ ha) ii) Economic Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

OFT 4 (Agronomy) Kharif

Crop / Enterprise	Green gram
Title of on farm trial	Assessment of Natural Farming in Greengram
Problem diagnosed	Poor soil health, high cost of cultivation and poor quality produce
Farmers' Practices	T ₁ Conventional farming
Details of technologies selected for assessment	T ₂ 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 T ₃ 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 Bramhastra @ 25 l/ha, at 20 and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS
Source of technology	"Kam lagat Prakratic Kheti" Book, Acharya Devvrat, 2019
Plot size	0.2 ha/farmer
No. of farmers	10
Total cost	10000/-
Critical input	Seed and Ghanjivamrut and natural farming ingredients
Performance indicators: Technical. yield (q/ ha) Economic Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

OFT. 5 (Horticulture) Kharif

Crop / Enterprise	Onion
Title of on farm trial	Assessment of IDM module against purple blotch of kharif onion (I st Year)
Problem diagnosed	Low yield of kharif onion due to heavy incidence of purple blotch disease
Farmers' Practices	T ₁ Indofil M-45 @ 1000g/h at the time of infestation
Details of technologies selected for assessment	T ₂ Seed treatment+ Mancozeb @ 0.25% / Hexaconazole @ 0.1% / Propiconazole @ 0.1% at I st at 30 DAT & II nd 40 DAT T ₃ Seed treatment + COC 50% EC @ 2gm/lt of water I st at 30 DAT & II nd at 40 DAT
Source of technology	DOGR, Pune, Maharashtra ,2015
Plot size	0.2ha /farmer
No. of farmers	10
Total cost	5000/-

Critical input	Mancozeb @ 0.25% / Hexaconazol 0.1% & COC 50% EC
Performance indicators: ii) Technical. yield (q/ ha) v) Economic Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

OFT. 6(Horticulture) Kharif

Crop/Enterprise	Chilli		
Title of on-farm trial:	Assessment of foliar spray of alpha naphthenic acetic acid for control of flower drop in chilli		
Season/Year	Kharif, 2023		
Problem diagnosis:	Low yield (25%) due to flower drop in chilli. Affected area 350 ha.		
Farming situation:	Sandy loam-Irrigated		
Production system/Thematic area:	Irrigated - HOV		
Farmers Practice:	T ₁	No use of plant growth regulator	
Details of technology selected for assessment/ refinement:	T ₂	Foliar spray of NAA (50 ppm) at 45DAT	
	T ₃	Foliar spray of NAA (50 ppm) at 45 and 60 DAT	
Source of technology	BCKV, Mohanpur, 2017		
No of farmers	10	Area of each trail : 0.1 ha	No of trials: 10
Critical input	Alpha naphthenic acetic acid		
Performance indicators or observation to be recorded	Flower drop (%), fruit setting (%), fruit size (cm), yield (q/ha), Net return (Rs./ha), B:C ratio		
Cost of input	Rs. 200/trial		
Total cost	Rs. 2000/-		

OFT. 7(Horticulture) Rabi

Crop / Enterprise	Banana		
Title of on farm trial	Assessment of Banana based intercropping under banana cropping system (II nd Year)		
Problem diagnosed	High cost of production and low income per unit area due to sole cropping in banana		
Farmers' Practices	T ₁	Banana	
Details of technologies selected for assessment	T ₂	Banana + Onion (1.6x1.6 m + 2 rows of onion)	
	T ₃	Banana + Coriander (1.6x1.6 m + row to row 45cm)	
Source of technology	NRCB, Trichy, Tamilnadu ,2015		
Plot size	0.2 ha /farmer		
No. of farmers	10		
Total cost	12000/-		
Critical input	Onion & Coriander Seeds		
Performance indicators: i) Technical. yield (q/ ha) ii) Economic ii) Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio		

OFT. 8 (Horticulture) Rabi

Crop/Enterprise	Onion		
Title of on-farm trial	Assessment of Natural Farming in Onion		
Problem diagnosed	High cost of production due to chemical spray against sucking pest		
Farming situation	Irrigated		
Production system and thematic area	Natural Farming		
Farmers' practices	Chemical Farming		
Details of technologies selected for assessment/refinement Treatments	T ₁	Chemical Farming	
	T ₂	IPM in Onion	

	T₃ Seed treatment with bijamrit while transplanting , Application of Jivamrut @21 days interval or spraying directly to the crops. Mulching (Acchadana): soil mulch I spray of Nimastra @ 5lit/pump II Sparay of Agniastra @ 5lit/pump III Spray of Dashparni ark @ 5lit/pump
Source of technology	Kam lagat Prakratic Kheti” Book, Acharya Devvrat, 2019
No. of farmers	10
Area of each trial	0.2 ha
No of trial	10
Critical input	IPM Input and Natural farming ingredient
Performance indicators Observation to be recorded	Fruit yield (kg/ha), economics (net return and B:C ratio)
Cost of input	Rs. 1,000 per demo
Total cost	Rs. 10,000

OFT. 9 (Plant Protection) Kharif

Crop / Enterprise	Pigeon pea
Title of on farm trial	Assessment of management practice for control of pod borer in pigeon pea (II nd Year)
Problem diagnosed	Low yield of pigeon pea due to attack of pod borer. Total acreage approx. 7000 ha & pod borer is serious problem in pigeon pea cultivation (more than 90% area is affected)
Farmers' Practices	T₁ Use of pesticide at the time of infestation
Details of technologies selected for assessment	T₂ 1 st spray of of Emamectin benzoate 5% SG @ 2 gm./10lit. water at flowering stage and 2 nd after 20 days interval, at pod formation stage spray of chlorantraniliprole 18.5% SC (Coragen) @ 1.5 ml/10 lit. water T₃ 1 st spray of Brahmastra @15-20 lit/ha at the time of flowering stage and 2 nd spray of agniastra @15-20 lit/ha in time of pod formation and milking stage , interval of 15 days 3 spary
Source of technology	RVSKVV Publication No. 141/2022
Plot size	0.1 ha/farmer
No. of farmers	10
Total cost	7000
Critical input	Emamectin benzoate, chlorantraniliprole and natural farming Bramhastra & Agniastra
Performance indicators: x) Technical. yield (q/ ha) Economic Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

OFT. 10 (Plant Protection) Kharif

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of management practice for control of pod borer in Soybean (I Year)
Problem diagnosed	Low yield of Soybean due to infestation in soybean crop. Total acreage approx. 14000 ha & pod borer is serious problem in Soybean cultivation (more than 90% area is affected)
Farmers' Practices	T₁ Spray of Prophenophos + Cypermethrein 1000ml/ha
Details of technologies selected for assessment	T₂ 1 st spray of of Emamectin benzoate 5% SG @ 2 gm./10lit. water at flowering stage and 2 nd after 20 days interval, at pod formation stage spray of chlorantraniliprole 18.5% SC (Coragen) @ 1.5 ml/10 lit. water T₃ 1 st spray of Brahmastra @15-20 lit/ha at the time of flowering stage and 2 nd spray of agniastra @15-20 lit/ha in time of pod formation and milking stage , interval of 15 days
Source of technology	DSR, Indore M.P. & RVSKVV Publication No. 141/2022
Plot size	0.1 ha/farmer
No. of farmers	10
Total cost	7000
Critical input	Emamectin benzoate, chlorantraniliprole and natural farming Bramhastra & Agniastra

Performance indicators: k) Technical. yield (q/ ha) l) Economic m) Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
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OFT. 11 (Plant Protection) Rabi

Crop / Enterprise	Watermelon
Title of on farm trial	Assessment of management practices to control of sucking pest in watermelon (II nd Year)
Problem diagnosed	Low yield of watermelon due to attack of sucking pest. Total acreage approx 1000ha. & pod borer is serious problem in pigeon pea cultivation (more than 75% affected area).
Farmers' Practices	T ₁ Use of pesticide at the time of infestation
Details of technologies selected for assessment	T ₂ Use of yellow sticky trap @ 5/ acre followed by one spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
	T ₃ Use of yellow and blue sticky trap @ 3:3/acre followed by two spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
Source of technology	Dr. Satyagopal Korlapati, IAS, Director General, Department of Agriculture & Cooperation, Govt of India
Plot size	0.2 ha
No. of farmers	10
Total cost	10000
Critical input	Yellow & blue sticky traps with insecticides
Performance indicators: iii) Technical. yield (q/ ha) iv) Economic v) Social – Employment generation	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

OFT. 12(Plant Protection) Rabi

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	T ₁ Sulphur 80 % WP @ 2 kg/ha at 45 DAS
Details of technologies selected for assessment	T ₂ Tebuconazole 25.9 EC@ 750 ml /ha at 30 & 45 DAS
	T ₃ Propiconazole 25 % E.C. @ 750 ml /ha at 30 & 45 DAS
Source of technology	Journal of Spice and Aromatic Crops Vol. 26(1) : 59-62 (2017)
Plot size	0.1ha/ Farmer
No. of farmers	10
Total cost	7000
Critical input	Fungicides
Performance indicators: vi) Technical. yield (q/ ha) vii) Economic viii) Social – Employment generation	No of Plant affected/ sq m, Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

OFT. 13 (Genetic & Plant Breeding) Kharif

Crop/Enterprise	Pearl millets
Title of on-farm trial	Assessment of Pearl millet varieties AHB-1200- and Dhanshakti for crop diversification
Problem diagnosed	Less production of miner millet
Farming situation	Rainfed
Production system and thematic area	Income generation
Farmers' practices	Sorghum production
Details of technologies selected for assessment/refinement Treatments	T ₁ Mp- 205 variety
	T ₂ Variety AHB 1200
	T ₃ Variety Dhanshakti
Source of technology	VNMKV, Parbhani (2018 & 2014)
No. of farmers	10
Area of each trial	0.2 ha/farmer

No of trial	10
Critical input	Pearl millet seed Variety AHB 1200 and Dhanshakti
Performance indicators Observation to be recorded	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
Total cost	7000

OFT. 14(Genetic & Plant Breeding) Kharif

Crop / Enterprise	Sorghum	
Title of on farm trial	Assessment of Sorghum improved Variety (I st Year)	
Problem diagnosed	Low yield of Sorghum due to use of old variety	
Farmers' Practices	T ₁	PKV Ashvin
Details of technologies selected for assessment	T ₂	Hybrid JK 22
	T ₃	Parbhani Shakti 1
Source of technology	VNMKV ,Parbhani (2018)	
Plot size	0.2ha/farmer	
No. of farmers	10	
Total cost	10000/-	
Critical input	Sorghum Seed Variety Hybrid JK -22 and Parbhani Shakti-1	
Performance indicators: (ix) Technical. yield (q/ ha) (x) Economic (i) Social – Employment generation	Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio	

OFT. 15 (Genetic & Plant Breeding) Rabi

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Chickpea improved Variety (II nd Year)	
Problem diagnosed	Low yield of chickpea due to use of old variety JG-130	
Farmers' Practices	T ₁	JG - 130
Details of technologies selected for assessment	T ₂	RVG – 203
	T ₃	RVG – 204
Source of technology	RVSKVV, Gwalior (2021 & 2014)	
Plot size	0.2ha/farmer	
No. of farmers	10	
Total cost	10000	
Critical input	Chickpea seeds variety RVG – 203, RVG - 204	
Performance indicators: (xii) Technical. yield (q/ ha) (xiii) Economic (iv) Social – Employment generation	Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio	

OFT. 16 (Genetic & Plant Breeding) Rabi

Crop / Enterprise	Coriander	
Title of on farm trial	Assessment of Coriander improved Variety (I st Year)	
Problem diagnosed	Low yield of coriander due to use of old variety	
Farmers' Practices	T ₁	Local variety- Indori Coriander
Details of technologies selected for assessment	T ₂	ACR-1 (Stem gall resistant variety, plant height of 113.9 cm, The variety is also suitable for seed & green leaf production avg yield 14 q/ha.)
	T ₃	ACR-2 (Suitable for seed production, seed shape is oval & suitable for export Avg yield 16 q /ha.)
Source of technology	NRCSS (Ajmer) 2015 & 2017	
Plot size	0.2ha/farmer	
No. of farmers	10	
Total cost	10000	
Critical input	Corriender Seed	

Performance indicators: xv) Technical. yield (q/ ha) xvi) Economic xvii) Social – Employment generation	Yield (qtls/ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
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OFT . 17 (Animal Husbandry) Kharif

Enterprise	Cow	
Title of on.farm trial	Assessment of Bypass fat in dairy cattle (II nd Year)	
Problem diagnosed	Low milk production (20%) from high lactating Dairy cattle due to low dietary energy intake	
Farming situation	Irrigated	
Production system and thematic area	Rural smallholder dairy production system Feeding management	
Farmers' practices	T ₁	Imbalance concentrate feed with wheat straw (8kg/day) and green fodder(10kg/day)
Details of technologies selected for assessment/refinement Treatments	T ₂	Recommended dose of balance concentrate feed @ 1kg / 2.5 liter of milk production + wheat straw (8kg/day) + green fodder(15kg/day) + supplement of by pass fat @ 10 gm / liter / animal / day after calving for two month..
Source of technology	NDRI, Karnal 2014	
No. of animals	10	
No. of farmers	10	
Critical input	Bypass fat	
Cost of input	1000/-	
Total cost	10000/-	
Performance indicators Observation to be recorded Daily Milk yield (L) Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield (Lt./day) , fat % in milk , net return (Rs/animal), B:C ratio	

OFT . 18 (Animal Husbandry) Kharif

Enterprise	Poultry Birds	
Title of on.farm trial	Assessment of Improved breeds of poultry in backyard poultry (II nd Year)	
Problem diagnosed	Local breed, less egg laying capacity	
Farming situation	Rainfed	
Production system and thematic area	Poultry production & management	
Farmers' practices	T ₁	Rearing of Satpuda poultry bird in backyard poultry
Details of technologies selected for assessment/refinement Treatments	T ₂	Sonali Improved cross breed of RIR x Fayomi ,156 eggs/hen/year, lowest mortality
	T ₃	Kaveri poultry breed
Source of technology	Bihar Veterinary College ,Patna ,Bihar	
No. of birds	40	
No. of farmers	10	
Critical input	Poultry Bird Sonali and Kaveri	
Cost of input	2000/farmer	
Total cost	20000/-	
Performance indicators Observation to be recorded Social: Farmers reaction & Feedback	Body Weight / Bird (kg.), Benefit Cost Ratio	

OFT . 19 (Animal Husbandry) Rabi

Crop/Enterprise	Buffalo
Title of on-farm trial	Assessment of by pass protein on milk production in dairy Buffalo (I st Year)
Problem diagnosed	Low milk yield and income due to conventional ration feeding
Farming situation	Rainfed
Production system and thematic area	Livestock Production Management

Farmers' practices	T₁	Farmers Practice use of choker & cakes (conventional feed)
Details of technologies selected for assessment/refinement Treatments	T₂	Use of Bye- Pass protein @ 50 gm+ With concentrate feed per animal per day after calving for three month
Source of technology	IVRI, Izatnagar – 2009	
No. of farmers	10	
No of trial	10	
No. of animals (if animals are part of OFT)	10	
Critical input	Bye- Pass protein	
Performance indicators Observation to be recorded	Milk Yield (per day upto 90 days), % increases in milk production, B:C ratio	
Cost of input	1000/farmer	
Total cost	10000	

OFT . 20 (Animal Husbandry) Rabi

Crop/Enterprise	Indigenous cattle	
Title of on-farm trial	Assessment of chelated trace minerals supplement on fertility and milk production in Indigenous cattle	
Problem diagnosed	Low fertility (60%) and milk production (20%) from Indigenous cattle due to lack of trace minerals. Animal affected 70%	
Farming situation	Rainfed	
Production system and thematic area	Rural smallholder dairy production system	Feeding management
Farmers' practices	T₁	Traditional Practice of feeding
Details of technologies selected for assessment/refinement Treatments	T₂	Supplement of trace minerals @ 40 gm / animal / day after calving up to three months
Source of technology	NDRI, Karnal 2012	
No. of farmers	10	
No of trial	10	
No. of animals (if animals are part of OFT)	10	
Critical input	Chelated trace minerals supplement	
Performance indicators Observation to be recorded	Onset of heat after calving (days), conception rate (%), milk yield (Lt/day), net return (Rs/animal), B:C ratio	
Cost of input	Rs. 650/trial for three month	
Total cost	Rs. 6500	

OFT. 21 (Agriculture Extension) Kharif

Crop / Enterprise	Soybean	
Title of on farm trial	Study on adoption dynamics and impact of soybean variety JS-2029	
Problem diagnosed	Low income due to use of old variety i.e. JS-335	
Farmers' Practices	T₁	JS-335
Details of technologies selectedfor	T₂	JS-2029

assessment	T ₃ | JS-2069
Source of technology	JNKVV, Jabalpur
Plot size	-
No. of farmers	25
Total cost	3500/-
Critical input	Training, OFT & Extension Activities
Performance indicators: xviii) Technical. yield (q/ ha) xix) Economic Social – Employment generation	Decrease in cost of cultivation, increase in production, increase in income, adoption & horizontal spread

OFT. 22(Agriculture Extension) Kharif

Crop / Enterprise	Soybean
Title of on farm trial	Study on different extension methods (Training & Demonstration) for dissemination of agricultural technology in CFLD Oilseed crop Soybean variety RVS 2001-4
Problem diagnosed	Low income due to use of old variety i.e. JS-335
Farmers' Practices	T ₁ | Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
Details of technologies selectedfor assessment	T ₂ | Training
	T ₃ | Demonstration
Source of technology	JNKVV, Jabalpur
Plot size	-
No. of farmers	25
Total cost	3500
Critical input	Training, CFLD & Extension Activities
Performance indicators: i) Technical. yield (q/ ha) i) Economic i) Social – Employment generation	Knowledge (%), Extent of Utilization (%), Extent of Dissemination (%) & Applicability (%)

OFT. 23(Agriculture Extension) Kharif

Crop / Enterprise	Pigeonpea
Title of on farm trial	Assessment of effective extension methods for TOT of Natural Farming in Pigeonpea
Problem diagnosed	Poor soil health, high cost of cultivation and poor quality produce
Farmers' Practices	T ₁ | Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
Details of technologies selectedfor assessment	T ₂ | Training
	T ₃ | Demonstration
Source of technology	JNKVV, Jabalpur
Plot size	-
No. of farmers	25
Total cost	2500/-
Critical input	Training, OFT & Extension Activities
Performance indicators: iv) Technical. yield (q/ ha) v) Economic i) Social – Employment generation	Knowledge (%), Extent of Utilization (%), Extent of Dissemination (%) & Applicability (%)

OFT. 24(Agriculture Extension) Rabi

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of effective extension methods for TOT of Natural Farming in Chickpea
Problem diagnosed	Poor soil health, high cost of cultivation and poor quality produce
Farmers' Practices	T ₁ | Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
Details of technologies selectedfor assessment	T ₂ | Training
	T ₃ | OFT
Source of technology	JNKVV, Jabalpur
Plot size	-
No. of farmers	25

Total cost	2500/-
Critical input	Training, OFT & Extension Activities
Performance indicators: vii) Technical. yield (q/ ha) /iii) Economic k) Social – Employment generation	Knowledge (%), Extent of Utilization (%), Extent of Dissemination (%) & Applicability (%)

Detailed Information about OFT:

1. Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of High yielding varieties of soybean (II nd Year)
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of soybean due to use of old variety JS-335
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	JS-335 (1994)
T2 –Recommended Practice.	JS-2029 (2014)
T3. Recommended Practice.	JS-2069 (2016)
Date of sowing:	June, 2023
Date of harvesting:	October, 2023
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	JS-2029 :Maturity 90-95 days, Yield 25-30qt/ha, Resistant to YMV, pest and charcoal rot JS-2069 :Maturity 93-95 days, Yield 25-28qt/ha, Multiple Resistant to disease
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

2. Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of post emergence weedicide in wheat (I st Year)
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield and increase in cost of cultivation
Thematic area:	Weed Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Hand weeding
T2 –Recommended Practice.	Spray of clodinafop 60g, ai/ha + metsulfuron methyl @ 4 gm ai/ha at 25-30 DAS
T3. Recommended Practice.	Spray of sulfosulfuron 25gm ai/ha + metsulfuron methyl @ 4 gm ai/ha at 25-30 DAS
Date of sowing:	November, 2023
Date of harvesting:	March, 2024
Source of technology:	IARI, Indore, 2015 july extension bulletin I st
Characteristics of technology:	Spray of clodinafop 60g, ai/ha + metsulfuron methyl @ 4 gm ai/ha at 25-30 DAS

	Spray of sulfosulfuron 25gm ai/ha + metsulfuron methyl @ 4 gm ai/ha at 25-30 DAS
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

3 .Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of natural farming component in chickpea crop
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Soil health deterioration due to non-judicious use of chemical fertilizer
Thematic area:	Natural Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Use of chemical fertilizers
T2 –Recommended Practice.	N:P:K:S::20:50:20:20 kg/ha
T3. Recommended Practice.	Natural farming ingredients from sowing with bijamrut and 4 application of Jivamrit after 21 days interval and application of 1 st spray of Nimastra and 2 nd spray of Bramhastra a week interval of flowering stage and Dashparni ark at pod filling stage
Date of sowing:	November, 2023
Date of harvesting:	March, 2024
Source of technology:	“Kam lagat Prakratic Kheti” Book, Acharya Devvrat, 2019
Characteristics of technology:	N:P:K:S::20:50:20:20 kg/ha Natural farming ingredients from sowing with bijamrut and 4 application of Jivamrit after 21 days interval and application of 1 st spray of Nimastra and 2 nd spray of Bramhastra a week interval of flowering stage and Dashparni ark at pod filling stage
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

4. Name of Discipline	Agronomy
Title of on.farm trial:	Assessment of Natural Farming in Greengram
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:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Conventional farming
T2 –Recommended Practice.	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 Bramhastra @ 25 l/ha, at 20

	and 40 DAS, Mulching with plant waste material @ 10 t/ha at 20 DAS
Date of sowing:	November, 2023
Date of harvesting:	March, 2024
Source of technology:	“Kam lagat Prakratic Kheti” Book, Acharya Devvrat, 2019
Characteristics of technology:	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
	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
Name of Crop/Enterprises:	Greengram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

5.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of IDM module against purple blotch of kharif onion (1 st Year)
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of kharif onion due to heavy incidence of purple blotch disease
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Indofil M-45 @ 1000g/h at the time of infestation
T2 –Recommended Practice.	Seed treatment + COC 50% EC @ 2gm/lt of water Ist at 30 DAT & IInd at 40 DAT
T3. Recommended Practice.	Seed treatment + hexaconazol 5% + Captan 70% WP @ 750gm/ha. Ist at 30 DAT & IInd at 40 DAT
Date of sowing:	June 2023
Date of harvesting:	October 2023
Source of technology:	DOGR, Pune, Maharashtra 2015
Characteristics of technology:	Seed treatment + COC 50% EC @ 2gm/lt of water Ist at 30 DAT & IInd at 40 DAT
	Seed treatment + hexaconazol 5% + Captan 70% WP @ 750gm/ha. Ist at 30 DAT & IInd at 40 DAT
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

6.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of foliar spray of alpha naphthenic acetic acid for control of flower drop in chilli
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield (25%) due to flower drop in chilli. Affected area 350 ha.
Thematic area:	Nutrient Management
No of trials:	10
No. of farmers involved	10

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	No use of plant growth regulator
T2 –Recommended Practice.	Foliar spray of NAA (50 ppm) at 45DAT
T3. Recommended Practice.	Foliar spray of NAA (50 ppm) at 45 and 60 DAT
Date of sowing:	June 2023
Date of harvesting:	October 2023
Source of technology:	BCKV, Mohanpur, 2017
Characteristics of technology:	Foliar spray of NAA (50 ppm) at 45DAT
	Foliar spray of NAA (50 ppm) at 45 and 60 DAT
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

7.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of Banana based intercropping under banana cropping system (II nd Year)
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	High cost of production and low income per unit area due to sole cropping in banana
Thematic area:	Intercropping
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.	Banana
T2 –Recommended Practice.	Banana + Onion (1.6*1.6 m and 2 rows of onion)
T3. Recommended Practice.	Banana + Coriander
Date of sowing:	November, 2023
Date of harvesting:	March, 2024
Source of technology:	NRCB, Trichy, Tamilnadu, 2015
Characteristics of technology:	Banana + Onion (1.6*1.6 m and 2 rows of onion)
	Banana + Coriander
Name of Crop/Enterprises:	Banana
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

8.Name of Discipline	Horticulture
Title of on.farm trial:	Assessment of Natural Farming in Onion
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	High cost of production due to chemical spray against sucking pest
Thematic area:	Natural Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Chemical Farming
T2 –Recommended Practice.	IPM in Onion
T3. Recommended Practice.	seed treatment with bijamrit while transplanting , Application of Jivamrut @21 days interval or spraying directly to the crops. Mulching (Acchadana): soil mulch I spray of Nimastra @ 5lit/pump, II Spray of Agniastra @ 5lit/pump & III Spray of Dashparni ark @ 5lit/pump
Date of sowing:	December, 2023
Date of harvesting:	March, 2024
Source of technology:	Kam lagat Prakratic Kheti” Book, Acharya Devvrat, 2019
Characteristics of technology:	IPM seed treatment with bijamrit while transplanting , Application of Jivamrut @21 days interval or spraying directly to the crops. Mulching (Acchadana): soil mulch I spray of Nimastra @ 5lit/pump, II Spray of Agniastra @ 5lit/pump & III Spray of Dashparni ark @ 5lit/pump
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

9. Name of Discipline	Plant Protection
Title of on.farm trial:	Assessment of management practice for control of pod borer in pigeon pea (II nd Year)
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of pigeon pea due to attack of pod borer. Total acreage approx. 5000 ha & pod borer is serious problem in pigeon pea cultivation (more than 90% area is affected)
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 pesticide at the time of infestation
T2 –Recommended Practice.	I st spray of of Emamectin benzoate 5% SG @ 2 gm,/10lit. water at flowering stage and 2 nd after 20 days interval, at pod formation stage spray of chlorantraniliprole 18.5% SC (Coragen) @ 1.5 ml/10 lit. water
T3. Recommended Practice.	Ist spray of Brahmastra@15-20 lit/ha at the time of flowering stage and 2 nd spray of agniastra @15-20 lit/ha in time of pod formation and miliking stage , interval of 15 days
Date of sowing:	July, 2023
Date of harvesting:	January, 2024
Source of technology:	RVSKVV Publication No. 141/2022
Characteristics of technology:	I st spray of of Emamectin benzoate 5% SG @ 2 gm,/10lit. water at flowering stage and 2 nd after 20 days interval, at pod formation stage spray of chlorantraniliprole 18.5% SC (Coragen) @ 1.5 ml/10 lit. water Ist spray of Brahmastra@15-20 lit/ha at the time of flowering stage and 2 nd spray of agniastra @15-20 lit/ha in time of pod formation and miliking stage , interval of 15 days
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

10.Name of Discipline	Plant Protection
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Title of on.farm trial:	Assessment of management practice for control of pod borer in Soybean
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of pigeon pea due to attack of pod borer. Total acreage approx. 5000 ha & pod borer is serious problem in Soybean cultivation (more than 90% area is affected)
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 pesticide at the time of infestation
T2 –Recommended Practice.	1 st spray of of Emamectin benzoate 5% SG @ 2 gm./10lit. water at flowering stage and 2 nd after 20 days interval, at pod formation stage spray of chlorantraniliprole 18.5% SC (Coragen) @ 1.5 ml/10 lit. water
T3. Recommended Practice.	Ist spray of Brahmastra @15-20 lit/ha at the time of flowering stage and 2 nd spray of agniastra @15-20 lit/ha in time of pod formation and miliking stage , interval of 15 days
Date of sowing:	July, 2023
Date of harvesting:	January, 2024
Source of technology:	RVSKVV Publication No. 141/2022
Characteristics of technology:	1 st spray of of Emamectin benzoate 5% SG @ 2 gm./10lit. water at flowering stage and 2 nd after 20 days interval, at pod formation stage spray of chlorantraniliprole 18.5% SC (Coragen) @ 1.5 ml/10 lit. water Ist spray of Brahmastra @15-20 lit/ha at the time of flowering stage and 2 nd spray of agniastra @15-20 lit/ha in time of pod formation and miliking stage , interval of 15 days
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

11.Name of Discipline	Plant Protection
Title of on.farm trial:	Assessment of management practices to control of sucking pest in watermelon (II nd Year)
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of watermelon due to attack of sucking pest. Total acreage approx 1000ha. & pod borer is serious problem in pigeon pea cultivation (more than 75% affected area).
Thematic area:	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 pesticide at the time of infestation
T2 –Recommended Practice.	Use of yellow sticky trap @ 5/ acre followed by one spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
T3. Recommended Practice.	Use of yellow and blue sticky trap @ 3:3/acre followed by two spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
Date of sowing:	November, 2023
Date of harvesting:	March, 2024
Source of technology:	Dr. Satyagopal Korlapati, IAS, Director General, Department of Agriculture & Cooperation ,Govt of India
Characteristics of technology:	Use of yellow sticky trap @ 5/ acre followed by one spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.

	Use of yellow and blue sticky trap @ 3:3/acre followed by two spray during the infestation period of Spiromesifen 22.9% SC @ 1.5 ml/lit.
Name of Crop/Enterprises:	Watermelon
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

12.Name of Discipline	Plant Protection
Title of on.farm trial:	Assessment of Propiconazole 25 % E.C. for management of Powdery Mildew in Coriander
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of coriander seed due to heavy infection of Powdery Mildew (Area 15000 ha. & affected area 80%)
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.	Sulphur 80 % WP @ 2 kg/ha at 45 DAS
T2 –Recommended Practice.	Tebuconazole 25.9 EC@ 750 ml /ha at 30 & 45 DAS
T3. Recommended Practice.	Propiconazole 25 % E.C. @ 750 ml /ha at 30 & 45 DAS
Date of sowing:	November, 2023
Date of harvesting:	February2023
Source of technology:	Journal of Spice and Aromatic Crops Vol. 26(1) : 59-62 (2017)
Characteristics of technology:	Tebuconazole 25.9 EC@ 750 ml /ha at 30 & 45 DAS
	Propiconazole 25 % E.C. @ 750 ml /ha at 30 & 45 DAS
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

13.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assesment of sorghum improved variety of Sorghum
Year/Season:	2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of sorghum due to use of old variety
Thematic area:	Varietal evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	PKV – Ashvin
T2 –Recommended Practice.	Hybrid JK -22
T3. Recommended Practice.	Parbhani Shakti -1
Date of sowing:	July 2023
Date of harvesting:	October 2023
Source of technology:	VNMKV Parbhani 2014

Characteristics of technology:	Hybrid JK -22 : High Grain and Fodder Yield with Resistance to Lodging
	Parbhani Shakti -1 : “Parbhani Shakti”, India’s first biofortified sorghum variety with enhanced zinc and iron, offers hope in tackling undernutrition and preserving food value in the face of climate change
Name of Crop/Enterprises:	Sorghum
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

14.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assesment pf pearl millet variety AHB -1200 and Dhanshakti for crop diversification
Year/Season:	2023
Farming situation:	Rainfed
Problem diagnosis:	Less production of minor millets
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	MP-205
T2 –Recommended Practice.	AHB-1200
T3. Recommended Practice.	Dhanshakti
Date of sowing:	July 2023
Date of harvesting:	October 2023
Source of technology:	VNMKV, Parbhani (2014 & 2018)
Characteristics of technology:	AHB-1200 Fe- first biofortified variety having high iron content
	Dhanshakti - bred for high iron content, is an early maturing open-pollinated variety that has the highest level of iron .
Name of Crop/Enterprises:	Pearl Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

15.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assessment of Chickpea improved variety (1 st Year)
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chickpea due to use of old variety JG-130
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	JG-130
T2 –Recommended Practice.	RVG-203- 2014
T3. Recommended Practice.	RVG-204 -2021
Date of sowing:	October, 2022
Date of harvesting:	March 2023

Source of technology:	RVSKVV Gwalior 2014 & 2021
Characteristics of technology:	RVG-203- 2012 (moderately resistant to wilt, dry root rot maturity 100 days Yield 19-20 qntrs /ha) RVG-204 -2021(Tolerant to wilt, Amenable to machine harvesting (desi type variety)
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

16.Name of Discipline	Genetics & Plant Breeding
Title of on.farm trial:	Assessment of HYV of Coriander
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of coriander due to use of local variety
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Local variety
T2 –Recommended Practice.	ACR-1
T3. Recommended Practice.	ACR-2
Date of sowing:	November, 2023
Date of harvesting:	February2023
Source of technology:	NRCSS Ajmer 2015 & 2017
Characteristics of technology:	ACR-1 – Stem gall resistant variety. Plant height of 113.9 cm The variety is also suitable for seed & green leaf production. Av. Yield 14 q/ ha ACR-2 –Suitable for seed production, seed shape is ovule suitable for export Avg yield 169 q/ ha resistant to powdery mildew
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

17.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of Bypass fat in dairy cattle (II nd Year)
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low milk production (20%) from high lactating Dairy cattle due to low dietary energy intake
Thematic area:	Rural smallholder dairy production system Feeding management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Imbalance concentrate feed with wheat straw (8kg/day) and green fodder(18kg/day)
T2 –Recommended Practice.	Recommended dose of balance concentrate feed @ 1kg / 2.5 liter of milk production + wheat straw (8kg/day) + green fodder(15kg/day) + supplement of by pass fat @ 10 gm / liter / animal / day after calving for two month.

Date of sowing:	July 2023
Date of harvesting:	September 2023
Source of technology:	NDRI, Karnal 2014
Characteristics of technology:	Bypass fat supplementation : Recommended dose of balance concentrate feed @ 1kg / 2.5 liter of milk production + wheat straw (8kg/day) + green fodder(15kg/day) + supplement of by pass fat @ 10 gm / liter / animal / day after calving for two month.
Name of Crop/Enterprises:	Cow
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

18.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of Sonali poultry breed in backyard poultry (II nd Year)
Year/Season:	2023-24/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Local breed, less egg laying capacity
Thematic area:	Poultry production and 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.	Rearing of Satpuda Desi poultry bird in backyard poultry
T2 –Recommended Practice.	Rearing of Improved backyard breed Sonali (RIR x Fayomi) in backyard poultry
T3- Recommended Practice.	Rearing of Kaveri Poultry breed
Date of sowing:	September 2023
Date of harvesting:	December 2023
Source of technology:	Bihar Veterinary College ,Patna ,Bihar
Characteristics of technology:	Sonali Improved cross breed of RIR x Fayomi ,156 eggs/hen/year, lowest mortality and Kaveri poultry breed
Name of Crop/Enterprises:	Poultry
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

19.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of bypass protein on milk production in dairy Buffalo
Year/Season:	2023/ Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low milk yield and income due to conventional ration feeding
Thematic area:	Rural smallholder dairy production system Feeding management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	T1- Farmers Practice use of choker & cakes (conventional feed)
T2 –Recommended Practice.	T2- Use of By- Pass protein @ 50 gm per animal per day after calving for three month
Date of sowing:	July 2023

Date of harvesting:	September 2023
Source of technology:	IVRI, Izatnagar – 2009
Characteristics of technology:	Bypass Protein supplementation : By- Pass protein @ 50 gm per animal per day after calving for three month
Name of Crop/Enterprises:	Buffalo
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

20.Name of Discipline	Animal Husbandry
Title of on.farm trial:	Assessment of chelated trace minerals supplement on fertility and milk production in Indigenous cattle
Year/Season:	2023/ Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low fertility (60%) and milk production (20%) from Indigenous cattle due to lack of trace minerals. Animal affected 70%
Thematic area:	Rural smallholder dairy production system Feeding management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Traditional Practice of feeding
T2 –Recommended Practice.	Supplement of trace minerals @ 40 gm / animal / day after calving up to three months
Date of sowing:	August 2023
Date of harvesting:	October 2023
Source of technology:	NDRI, Karnal 2012
Characteristics of technology:	Chelated trace minerals supplementation : Supplement of trace minerals @ 40 gm / animal / day after calving up to three months
Name of Crop/Enterprises:	Indigenous Dairy cattle
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

21.Name of Discipline	Agri. Extension
Title of on.farm trial:	Study on adoption dynamics and impact of soybean variety JS-2029
Year/Season:	Kharif/ 2023
Farming situation:	Irrigated
Problem diagnosis:	Low income due to high use of old variety i.e.JS-335
Thematic area:	EXT & TOT
No of trials:	-
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	JS-335
T2 –Recommended Practice.	JS-2029
T3 –Recommended Practice.	JS-2069
Date of sowing:	July 2023
Date of harvesting:	October 2023
Source of technology:	JNKVV, Jabalpur

Characteristics of technology:	JS-2029 Maturity 90-95 days Yield 25-30qt/ha Resistant to YMV, pest and charcoal rot	JS-2069 Maturity 93-95 days Yield 25-28qt/ha Multiple Resistant to disease
Name of Crop/Enterprises:	Soybean	
Recommendations for Farmers	-	
Recommendations for Deptt. Personnel	-	
Feedback	-	

22.Name of Discipline	Agri. Extension
Title of on.farm trial:	Study on different extension methods (Training & Demonstration) for dissemination of agricultural technology in CFLD Oilseed crop Soybean variety RVS 2001-4
Year/Season:	Kharif/ 2023
Farming situation:	Irrigated
Problem diagnosis:	Low income due to use of old variety i.e. JS-335
Thematic area:	EXT & TOT
No of trials:	25
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
T2 –Recommended Practice.	Training
T3 –Recommended Practice.	Demonstration
Date of sowing:	July 2023
Date of harvesting:	October 2023
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	RVS 2001-4 : Maturity - 93 days, Yield – 25 qtl./ha. & resistant to YMV
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

23.Name of Discipline	Agri. Extension
Title of on.farm trial:	Assessment of effective extension methods for TOT of Natural Farming in Pigeonpea
Year/Season:	Kharif/ 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Poor soil health, high cost of cultivation and poor quality produce
Thematic area:	TOT & EXT
No of trials:	25
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice.	Using informal methods of technology diffusion like Friends, Neighbors, Input dealers etc
T2 –Recommended Practice.	Training
T3 –Recommended Practice.	Demonstration
Date of sowing:	July 2023
Date of harvesting:	February 2024

Extent of Dissemination (%)	25	-	-	-	-	-	-	-	-	-
Applicability (%)	25	-	-	-	-	-	-	-	-	-

Frontline Demonstrations

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

S. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demonstration	Parameters identified for performance evaluation
1	Soybean	Weed Management	Demonstration of diclosulam as pre emergence weedicide in soybean	Diclosulam	Kharif 2023	4	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
2	Sweet corn	Crop Diversification	Demonstration of Hi-Brix 39/Hi-Brix 53 Sweet Corn variety	Sweet Corn Seed	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
3	Wheat	Varietal Evaluation	Demonstration of high yielding wheat variety HI-1544	Wheat Seed	Rabi 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
4	Pearl millet	Varietal Evaluation	Demonstration of High yielding Variety of pearl millet	(As per availability of research variety of Institute)	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
5	Vegetables & Fruits	Nutritional security & Income Generation	Demonstration of nutritional kitchen garden	Kitchen Garden Kit & Nutritional plants	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
6	Banana	Quality Production	Demonstration on skirting bag to control biotic and abiotic stress for quality production banana	Skirting bag	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
7	Onion	Varietal Evaluation	Demonstration on onion variety Bhima Shakti/ Red	Onion Seed	Rabi 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
8	Okra	Varietal Evaluation	Demonstration of Okra variety Kashi Lalima	Okra seed	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
9	Sugarcane	Waste Decomposer	Demonstration of waste decomposer in Sugarcane	Waste decomposer	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
10	Pigeon Pea	IDM	Demonstration for management of Fusarium wilt disease in Pigeon	Trichoderma	Kharif 2023	4	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

			Pea					
11	Chickpea	IDM	Demonstration for management of Fusarium wilt disease in chickpea	Trichoderma	Rabi 2023	4	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
12	Maize	IPM	Demonstration for management of Fall army worm in Rabi Maize	Insecticide	Rabi 2023	4	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
13	Wheat	Varietal Evaluation	Demonstration bio fortified variety DBW-187(karan vandana) introduction of wheat rabi season	wheat Seed	Rabi 2023-24	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
14	KODO	Varietal Evaluation	Demonstration of minor millets KODO JK-137	Seed	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
15	Gram	Varietal Evaluation	Demonstration of Gram improved Variety Phule Vikaram	Gram	Rabi 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
16	Kutki	Varietal Evaluation	Demonstration of minor millets KUTKI JK-4	Seed	Kharif 2023	2	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
17	Buffalo	Disease management	Demonstration of control of Mastitis in Buffalo	Vitamin E and Selenium	Kharif 2023	10 animal	10	% reduction in Mastitis and Milk Yield(Lit/day/Buffalo)
18	Cow	Feed management	Demonstration of Probiotics in Dairy Cattle	Probiotics	Kharif 2023	10 animal	10	Milk Yield (lit/cow/day)
19	Quail	Production Management	Demonstration of Japanese Quail	Japanese Quail	Rabi 2023	30 birds/farmer	10	BW/bird, B:C Ratio
20	Green Fodder	Fodder Management	Demonstration of Berseem green fodder feeding in dairy cattle	Berseem	Rabi 2023	0.2 ha	10	Milk yield/day /lit, B:C Ratio
21	Vegetables & Fruits	Nutritional security & income generation	Demonstration on nutritional kitchen garden	Kitchen Garden Kit	Rabi 2023-24	10	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
22	Jowar	ITK	Demonstration of ITK in Green Chilli	Cow dung Ash 25 kg/acre, Desi Cow Urine 20lt/acre & Rice Starch 15lt/acre	Kharif 2023	20	20	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

23	Pearl Millet	Varietal Evaluation	Demonstration on Bio fortified Pearl millet variety RHB-234	Pearl millet s Seed	Kharif 2023	10	10	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
24	Banana	Waste Decomposer	Demonstration of waste decomposer in banana	Waste Decomposer	Rabi 2023-24	25	25	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	24	Crop Harvesting Period	200
2	Farmers Training	24	Crop Harvesting Period	250
3	Media coverage	As per need	-	-
4	Training for extension functionaries	As per need	-	-

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Buffalo (Disease Management)	-	10	10	Vitamin E and Seleniom	% reduction in Mastitis and Milk Yield(Lit/day/ Buffalo)	-	-
Cow (Feeding Management)	-	10	10	Probiotics	Milk Yield (lit/cow/day) , B:C Ratio	-	-
Quail	Japanese Quail	10	30	Japanese Quail	BW/bird, B:C Ratio	-	-
Cow (Fodder Management)	-	10	10	Berseem	Milk Yield (lit/cow/day) , B:C Ratio	-	-

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Oilseed	RVS 2001-04	Seed (As per Fund availability)	Kharif 2023	20	50	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
2	Pigeon pea	Pulses	Rajeshwari	Seed (As per Fund availability)	Kharif 2023-24	20	50	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.), Net Return (Rs./ha.) & Benefit Cost Ratio
3	Chickpea	Pulses	RVG 203	Seed (As per Fund availability)	Rabi 2023-24	20	50	Yield (qtl./ha.), Cultivation Cost (Rs./ha.), Gross Return (Rs./ha.),

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							Grand Total
			Others			SC/ST				
			Male	Female	Total	Male	Female	Total		
Total	02	02	20	-	20	20	10	30	50	
III Soil Health and Fertility Management										
Soil fertility management	02	02	50	-	-	50	-	-	100	
Production and use of organic inputs	01	01	25	-	-	25	-	-	25	
Soil and Water Testing	02	02	50	-	-	50	-	-	100	
Total	05	05	125	-	-	125	-	-	225	
IV Livestock Production and Management										
Poultry Management	02	02	05	20	25	05	20	25	50	
Disease Management	02	02	05	20	25	05	20	25	50	
Feed management	01	01	05	20	25	-	-	-	25	
Total	05	05	15	60	75	10	40	50	125	
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	02	02	-	20	20	20	10	30	50	
Total	02	02	-	20	20	20	10	30	50	
VI Agril. Engineering										
Total	-	-	-	-	-	-	-	-	-	
VII Plant Protection										
Integrated Pest Management	04	04	30	10	40	40	20	60	100	
Integrated Disease Management	02	02	10	10	20	20	10	50	50	
Total	06	06	40	20	60	60	30	110	150	
VIII Fisheries										
Total	-	-	-	-	-	-	-	-	-	
IX Production of Inputs at site										
Total	-	-	-	-	-	-	-	-	-	
X Capacity Building and Group Dynamics										
Total	-	-	-	-	-	-	-	-	-	
XI Agro.forestry										
Total	-	-	-	-	-	-	-	-	-	
XII Others (Pl. Specify)										
Grand Total	30	30	300	100	275	335	140	370	850	
(B) RURAL YOUTH										
Seed production	02	06	30	-	30	-	-	-	30	
Vermi.culture	01	03	15	-	15	-	-	-	15	
TOTAL	03	09	45	-	45	-	-	-	45	
(C) EXTENSION PERSONNEL										

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops	02	02	20	04	24	16	-	16	40
Integrated Pest Management	01	01	10	02	12	08	-	08	20
TOTAL	03	03	30	06	36	24	-	24	60

B)

OFF CAMPUS

Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
(A) FARMERS & FARM WOMEN									
I Crop Production									
Weed Management	01	01	10	-	10	10	05	15	25
Resource Conservation Technologies	01	01	10	-	10	10	05	15	25
Cropping Systems	01	01	10	-	10	10	05	15	25
Crop Diversification	01	01	10	-	10	10	05	15	25
Integrated Farming	01	01	10	-	10	10	05	15	25
Seed production	05	05	50	-	50	50	25	75	125
Total	10	10	100	-	100	100	50	150	250
II Horticulture									
a) Vegetable Crops									
-	-	-	-	-	-	-	-	-	-
b) Fruits									
Management of young plants/orchards	01	01	10	-	10	10	05	15	25
d) Plantation crops									
-	-	-	-	-	-	-	-	-	-
e) Tuber crops									
-	-	-	-	-	-	-	-	-	-
f) Spices									
-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants									
-	-	-	-	-	-	-	-	-	-
Total	01	01	10	-	10	10	05	15	25
III Soil Health and Fertility Management									
Soil fertility management	02	02	50	-	50	-	-	-	50
Integrated Nutrient Management	01	01	20	05	25	-	-	-	25
Production and use of organic inputs	01	01	20	05	25	-	-	-	25
Soil and Water Testing	01	01	20	05	25	-	-	-	25
Total	05	05	110	15	125	-	-	-	125
IV Livestock Production and Management									
Dairy Management	01	01	20	05	25	-	-	-	25
Poultry Management	01	01	20	05	25	-	-	-	25

Disease Management	01	01	20	05	25	-	-	-	25
Feed management	01	01	20	05	25	-	-	-	25
Total	04	04	80	20	100	-	-	-	100
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	02	02	-	-	-	25	25	50	50
Total	02	02	-	-	-	25	25	50	50
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	04	04	40	10	50	40	10	50	100
Integrated Disease Management	04	04	40	10	50	40	10	50	100
Total	08	08	80	20	100	80	20	100	200
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics									
-	-	-	-	-	-	-	-	-	-
XI Agro.forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)									
Total	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH									
Nursery Management of Horticulture Crops	01	03	15	-	15	-	-	-	15
Poultry Production Management	01	03	-	-	-	15	-	15	15
Natural Farming	01	03	15	-	15	-	-	-	15
Total	03	09	30	-	30	15	-	15	45
(C) Extension Personnel									
Value Addition	01	01	20	-	20	-	-	-	20
Natural Farming	01	01	20	-	20	-	-	-	20
Raising Additional Income through Intercropping in Banana	01	01	20	-	20	-	-	-	20
Total	03	03	60	-	60	-	-	-	60

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
1. Crop Production										
June	FFW	Resource Conservation Technology	01	13	02	15	08	02	10	25
August	FFW	Water Management	01	13	02	15	08	02	10	25

October	FFW	Weed management	01	13	02	15	08	02	10	25
December	FFW	Cropping System	01	13	02	15	08	02	10	25
February	FFW	Integrated Farming System	01	13	02	15	08	02	10	25
2. Plant Protection										
June	FFW	Sucking pest management in water melon	01	13	02	15	08	02	10	25
August	FFW	Sucking pest management in cotton	01	13	02	15	08	02	10	25
October	FFW	Pest management technology in kharif crops	01	13	02	15	08	02	10	25
December	FFW	Wilt disease management in chickpea	01	13	02	15	08	02	10	25
February	FFW	IPM in rabi crops	01	13	02	15	08	02	10	25
3. Horticulture										
June	FFW	Nutritional kitchen garden	01	13	02	15	08	02	10	25
August	FFW	Nutritional kitchen garden	01	13	02	15	08	02	10	25
October	FFW	CMV disease management in banana	01	13	02	15	08	02	10	25
December	FFW	Production technology of spices	01	13	02	15	08	02	10	25
February	FFW	IPM in Banana	01	13	02	15	08	02	10	25
4. Agriculture Extension (Capacity Building and Group Dynamics)										
May	FFW	Soil Testing	01	13	02	15	08	02	10	25
July	FFW	ITK Technology	01	13	02	15	08	02	10	25
September	FFW	Soil Testing	01	13	02	15	08	02	10	25
November	FFW	ITK Technology	01	13	02	15	08	02	10	25
January	FFW	Post harvest management technology	01	13	02	15	08	02	10	25
5. Genetics & Plant Breeding										
April	FFW	Seed germination testing	01	13	02	15	08	02	10	25
July	FFW	Seed production of spices	01	13	02	15	08	02	10	25
September	FFW	Seed production of wheat	01	13	02	15	08	02	10	25
November	FFW	FIR in rabi crops	01	13	02	15	08	02	10	25
January	FFW	Post harvest	01	13	02	15	08	02	10	25

		management of rabi crops								
6. Livestock production										
May	FFW	Backyard poultry management	01	13	02	15	08	02	10	25
July	FFW	Azolla production management	01	13	02	15	08	02	10	25
September	FFW	Disease management in poultry & goatery	01	13	02	15	08	02	10	25
November	FFW	Vaccination & their importance in small ruminants	01	13	02	15	08	02	10	25
January	FFW	Improved poultry breeds	01	13	02	15	08	02	10	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
1. Crop Production										
May	FFW	Weed Management	01	13	02	15	08	02	10	25
July	FFW	Integrated Farming	01	13	02	15	08	02	10	25
September	FFW	Integrated Crop Management	01	13	02	15	08	02	10	25
November	FFW	Resource Conservation Technology	01	13	02	15	08	02	10	25
January	FFW	Crop Diversification	01	13	02	15	08	02	10	25
2. Plant Protection										
May	FFW	Sigatoka disease Management in banana	01	13	02	15	08	02	10	25
July	FFW	YMV management in soybean	01	13	02	15	08	02	10	25
September	FFW	Pod borer management in pigeon pea & soybean	01	13	02	15	08	02	10	25
November	FFW	Soil & seed borne disease management	01	13	02	15	08	02	10	25
January	FFW	Fall worm army management in maize	01	13	02	15	08	02	10	25
3. Horticulture										
May	FFW	Rejuvenation	01	13	02	15	08	02	10	25

		of old orchards								
July	FFW	Nutritional kitchen garden	01	13	02	15	08	02	10	25
September	FFW	CMV disease management in banana	01	13	02	15	08	02	10	25
November	FFW	Fertigation technology in banana	01	13	02	15	08	02	10	25
December	FFW	Production technology of spices	01	13	02	15	08	02	10	25
January	FFW	Protected cultivation of vegetable crops	01	13	02	15	08	02	10	25
4. Agriculture Extension (Capacity Building and Group Dynamics)										
June	FFW	Natural Farming	01	13	02	15	08	02	10	25
August	FFW	Nutritional Kitchen Garden	01	13	02	15	08	02	10	25
October	FFW	Natural Farming	01	13	02	15	08	02	10	25
December	FFW	Nutritional Kitchen Garden	01	13	02	15	08	02	10	25
February	FFW	Use of drone technology in agriculture	01	13	02	15	08	02	10	25
5. Genetics & Plant Breeding										
May	FFW	Seed production of soybean	01	13	02	15	08	02	10	25
June	FFW	FIR in kharif crops	01	13	02	15	08	02	10	25
August	FFW	Post harvest management of kharif crops	01	13	02	15	08	02	10	25
October	FFW	Seed production of chickpea	01	13	02	15	08	02	10	25
December	FFW	Seed production of sugarcane	01	13	02	15	08	02	10	25
6. Livestock production										
June	FFW	Feed & nutrition management	01	13	02	15	08	02	10	25
August	FFW	Green fodder production management	01	13	02	15	08	02	10	25
October	FFW	Goatery production management	01	13	02	15	08	02	10	25
December	FFW	Disease management in poultry	01	13	02	15	08	02	10	25

February	FFW	Silage making	01	13	02	15	08	02	10	25
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Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April	RY	Quality seed production of kharif crops	03	10	02	13	02	00	02	15
Horticulture										
August	RY	Nursery management of horticulture crops	03	10	02	13	02	00	02	15
Livestock production										
January	RY	Poultry Production Management	03	10	02	13	02	00	02	15
Genetics & Plant Breeding										
September	RY	Quality seed production of rabi crops	03	10	02	13	02	00	02	15
Plant Protection										
June	RY	Vermicompost Production Management	03	10	02	13	02	00	02	15
Agriculture Extension (Capacity Building and Group Dynamics)										
October	RY	Natural Farming	03	10	02	13	02	00	02	15

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
September	EF	Seed production technology of rabi crops	01	05	05	10	05	05	10	20
Horticulture										
December	EF	Raising additional income through banana intercropping	01	05	05	10	05	05	10	20
Livestock production										
June	EF	Natural farming	01	05	05	10	05	05	10	20
Genetics & Plant Breeding										
May	EF	Seed production technology of kharif crops	01	05	05	10	05	05	10	20
Plant Protection										
July	EF	Pest & Disease Management	01	05	05	10	05	05	10	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Agriculture Extension (Capacity Building and Group Dynamics)										
August	EF	Value Addition & Food Processing	01	05	05	10	05	05	10	20

Sponsored Training Programmes

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

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	28	-	-	600	-	-	12	-	-	612
Kisan Mela	01	-	-	200	-	-	20	-	-	220
Kisan Ghosthi	01	-	-	50	-	-	-	-	-	50
Exhibition	02	-	-	300	-	-	20	-	-	320
Film Show	24	-	-	500	-	-	10	-	-	510
Group meetings	As per need	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	As per need	-	-	-	-	-	-	-	-	-
Newspaper coverage	As per need	-	-	-	-	-	-	-	-	-
Radio talks	30	-	-	-	-	-	-	-	-	-
TV talks	07	-	-	-	-	-	-	-	-	-
Popular articles	As per need	-	-	-	-	-	-	-	-	-
Extension Literature	As per need	-	-	-	-	-	-	-	-	-
Advisory Services	As per need	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	As per need	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	As per need	-	-	-	-	-	-	-	-	-
Diagnostic visits	As per need	-	-	-	-	-	-	-	-	-
Exposure visits	10	-	-	180	-	-	12	-	-	192
Animal Health Camp	01	-	-	100	-	-	-	-	-	-
Self Help Group Conveners meetings	02	-	-	50	-	-	04	-	-	54
Celebration of important days (specify)	06	-	-	250	-	-	20	-	-	270
Others (Awariness Programme)	05	-	-	200	-	-	20	-	-	220
Total	102	-	-	2100	-	-	118	-	-	2218

Target for Production and supply of Technological products

Seed Materials

Category	Crop	Variety	Quantity (qtl.)
Cereals	Wheat	HI-1544/DBW-187	125
Oilseeds	Soybean	JS-2098 & JS-2069	50
Pulses	Pigeonpea	Rajeshwari	25
Others (Spices)	Turmeric	Selam	05

Planting Materials

Category	Crop	Variety	Quantity (Nos.)
Fruits	Lemon	-	500
Fruits	Jamun	-	500
Fruits	Jack Fruit	-	1000
Fruits	Custard Apple	-	2000
Fruits	Mango	-	2000
Vegetables	Chilli	Hybrid	5000
Vegetables	Tomato	Hybrid	2000
Vegetables	Brinjal	Hybrid	2000
Flowers	Marigold	Hybrid	500

Bio.products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)/ (Its)
Bioagents				
-	-	-	-	-
Biofertilizers				
1	Vermicompost	-	-	10000
2	Vermis	Eisenia fetida	-	100
3	Ghanjivamrut	-	-	1000
Bio Pesticides				
1	Dasparni ark	-	-	10000
2	Brahmastra	-	-	10000

Livestock

S. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Desi	2000	-
Sheep and Goat	Osmanabadi	Buck	10	-
Poultry	Poultry Bird	Kadaknath	300	-
	Poultry Bird	Desi	500	-
Fisheries	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

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

Details of Electronic Media to be Produced

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

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

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Survey, line dept, ex trainees, interface
2	Rural Youth	Survey, line dept, ex trainees, interface
3	In.service personnel	Survey, line dept, ex trainees, interface
4	methodology for identifying OFTs/FLDs	Survey, line dept, ex trainees, interface

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Titgaon	Khaknar	05
2	Mahalgulara	Khaknar	02
3	Sirpur	Khaknar	11
4	Hanumat Kheda	Khaknar	05
5	Sarola	Khaknar	02
6	Bhavasa	Burhanpur	31
7	Khamani	Burhanpur	32
8	Adgaon	Burhanpur	30

1. No. of farm families selected per village : 25
2. No. of survey/PRA to be conducted: 8

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2015

List of equipments purchased:

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

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

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	2748	5775	39	604000/-
Total	2748	5775	39	604000/-

LINKAGES

Functional linkage with different organizations

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

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

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

b) Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

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

Name of Flagship programmes : Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Awareness Programme: Wall Painting, Goshti, Group Meeting, awareness of plant residual management	500
	Exposure visit of Farmers : Visits to Natural Farming plots	250
	Field Demonstration and field visit	08
	Training	50
February	Awareness Programme: Wall Painting, Goshti, Group Meeting, awareness of plant residual management	500(230 farmers and 20 Local leaders)
	Exposure visit of Farmers : Visits to Natural Farming plots	250(School students and Farmers)
	Field Demonstration and field visit	08
	Training	50
March	Awareness Programme: Wall Painting, Goshti, Group Meeting, awareness of plant residual management	500
	Exposure visit of Farmers : Visits to Natural Farming plots	250
	Field Demonstration and field visit	01
	Training	5

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 8500 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	Js-2029, JS-2069, JS-2098 RVS 2001-18, 2001-4,1188, RSC-1552, AMSMB-518	Varietal	5000
Pigeon Pea	Kharif	Rajeshwari, Pusa 16	Varietal	1000
Wheat	Rabi	HI-8713, 8737, 8627, 8777, 1605, 8663, 1531, 2932, Black wheat	Varietal	5000
Chickpea	Rabi	RVG-201, RVG-202, RVG-203, JAKI-9218	Varietal	1000
Vegetable	Kharif & Rabi	Hybrid	Varietal	2500

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production			
Nursery	Fruit Plants- Custard Apple (Balanagar), Mango, Jamun (Konkan Bahadoli.), Karonda (Pant Manohar), Neem (Desi) , Jack Fruit (Kokan Gold), Lemon (Kagzi lime) Forest Plants- Karanj, Gulmohar, Tamarind, Subabool, Vilaiti Imli Vegetable Nursery- Chilli, Tomato, Brinjal	-	7987 Fruit plant sale Rs. 2,51,510 income generated			
Goatry	Goat & Kids of sirohi, osmanabadi & sujat	Size of Shed: 25x60 & 30x60 ft. Open fencing	09 nos. Goat & Kid sale Rs. 22600 income generated			
Poultry	Eggs, chicks & birds of Kadaknath & Kaveri	Size of Shed: 25x60 ft	380 eggs, 1912 chicks & 140 birds sale Rs. 1,49,503 income generated			
Organic Unit	Decomposer, Earthworms, Azolla, Vermicompost, Cow dung & Cow Urine	-	Items	Unit	Qty	Income (Rs.)
			Decomposer	Nos.	672	16800.00
			Earthworms	Kg.	100	25000.00
			Azolla	Kg.	34	6800.00
			Vermicompost	Kg.	90	450.00
			Cow Dung	Trolley	03	12000.00
Cow Urine	lit.	100	400.00			
TOTAL Income generation						61450.00

ANNUAL ACTION PLAN 2023

KVK Govindnagar, Narmadapuram








Year of sanction: 2023

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sanjeev Kumar Garg	9644182002	9074929751	agrisanjeev75@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator									
2	Subject Matter Specialist	Dr. Sanjeev Kumar Garg	In charge Senior scientist & Head	Agriculture extension	15600-39100 (5400) 63100	05.03.2018	2018	9074929751	agrisanjeev75@gmail.com	
3	Subject Matter Specialist	Shri Brajesh Kumar Namdev	SMS	Plant Protection	15600-39100 (5400) 63100	01.03.2018	2018	9770374647	brajesh.jnkvv@gmail.com	
4	Subject Matter Specialist	Dr Devidas Patel	SMS	Plant Breeding and Genetics	15600-39100 (5400) 63100	05.03.2018	2018	9424854251	devidaspatel24@gmail.com	
5	Subject Matter Specialist	ShriLavesh Kumar Chourasia	SMS	Horticulture	15600-39100 (5400) 63100	09.03.2018	2018	9425990334	laveshchourasia@gmail.com	
6	Subject Matter Specialist	Dr. AkanchhhaPandey	SMS	Home Science	15600-39100 (5400) 63100	15.03.2018	2018	9425814702	akanchha.pandey3190@gmail.com	
7	Subject Matter Specialist	Rajendra Patel	SMS	Agronomy	15600-39100 (5400) 56100	31.12.2022	2018	8889933251/7000034381	rajendrajhagari@gmail.com	
8	Programme Assistant	Dr. Praveen Solanki	PA	Environmental Science	39900	13.03.2018	2018	9893308407	praveen.solanki746@gmail.com	
9	Computer Programmer / Programme Assistant	Shri Rahul Majhi	PA	B tech - IT Computer	39900	05.03.2018	2018	7049488553	rahulmajhi1989@gmail.com	

10	Farm Manager	Shri Pankaj Sharma	PA	Agriculture Extension	39900	09.03.2018	2018	9713309916	prs2590@gmail.com	
11	Assistant	Shri Vikas Mohrarir	ASS.	MBA	39900	01.03.2018	2018	9893780803	vm.viraj2011@gmail.com	
12	Jr. Stenographer / Comp. Operator	Abhay Warathe	STENO	MCA	25500	31.01.2022	2022	7999788438	waratheabhay701@gmail.com	
13	Driver	Shri Omkarsingh Rajput	Driver	Graduation	24500	03.08.2018	2018	8223026737	Orajput52@gmail.com	
14	Driver	Shri Nabab singh Kourav	Driver	Graduation	21700	31.01.2022	2022	6261040206	Kourav37@gmail.com	
15	Supporting staff	Shri Jitendra Kumar Jain	SSS	Graduation	20300	15.03.2018	2018	9713949900	Jitendrakumarajain68@gmail.com	
16	Supporting staff	Shri Piyush Jha	SSS	Post Graduation	20300	04.08.2018	2018	8839539126	jhapiyush01@gmail.com	

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

S. No.	Item	Area (ha)
1	Under Buildings	2.5
2	Under Demonstration Units	2
3	Under Crops	13
4	Orchard/Agro-forestry	-
5	Others (specify)	2.5
Total		20

1.4 Infrastructural Development:

A) Buildings

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

B) Vehicles

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

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	January 16/01/2023
2	November

2. DETAILS OF DISTRICT

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

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

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AES-2 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AES-3 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AES-4 (name)

Strength	Weakness	Opportunities	Threats
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	668.69
Forest	175.33
Waste Land	2.62
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	25.28
Bushes	
Current Fallow	5.39
Other Fallow	7.61
Agricultural Land	325.50
Area Sown	325.50
Kharif	293.86
Rabi	325.00
Zaid	301.5
Cropping Intensity	300

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	147.1
2	Well	53.5
3	Tube well	71.3
4	Ponds	1.1
5	Others	52.0

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Deep soil	Heavy clays have a very high water-holding capacity, but most of the water is tightly bound and not available to plants. The humus content is often higher than in other mineral soils. They do not form a crust when they dry.	433.2
2	Medium deep soils	Medium-textured soils have equal parts sand, silt and clay. Finely textured soils are mostly clay or clay and silt. The same weight of clay can hold 50 times as much water as very fine sand particles	26.8
3	Shallow soils	Soil is light, warm, dry and tends to be acidic and low in nutrients. Light soils are often known as sandy soils due to their high proportion of sand and little clay (clay weighs more than sand). These soils have quick water drainage and are easy to work with	209.8

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Wheat	256.98	1311.0	51.00
2	Summer Greangram	250.00		16.00
3	Paddy	196.30		51.00
4	Soybean	26.08		18.00
5	Chickpea	64.40	167.00	26.00

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

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

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		..... MT.	..... kg
Buffalo		..... MT.	..... kg
Sheep			
<i>Crossbred/ Indigenous</i>		..... MT wool	..... kg
Goats		..... MT	..... kg
Pigs Crossbred/ Indigenous		---	---
Rabbits			

Poultry			
Hens		..... Lakh eggs	..... eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	..... (ha)	.....Q/ month	..... Q/ ha.

Details of Operational area / Villages (2022)

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

Priority / Thrust areas

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

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
20	100	10	100

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
53	1060	1274	5167

Seed Production (Qtl.)	Planting material (Nos.)
2000	5000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions						
				Title of OFT if any	Title of FL D if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.	
1	Rice-Wheat-Greengram (Natural Farming)	green gram	High cost of crop cultivation under chemical farming, reduce organic carbon in soil	Assessment of Natural Farming package of practices in Greengram (2 nd Year)						
2	Rice-Wheat-Greengram (Natural Farming)	Paddy	High cost of crop cultivation under chemical farming, reduce organic carbon in soil	Assessment of Natural Farming package of practices in paddy (2 nd Year)						
3	Rice-Wheat-Greengram (Natural Farming)	Chickpea	High cost of crop cultivation under chemical farming, reduce organic carbon in soil	Assessment of Natural Farming package of practices in chickpea (2 nd Year)						
4	Rice-Wheat-Greengram (Natural Farming)	Wheat	High cost of crop cultivation under chemical farming, reduce organic carbon	Assessment of Natural Farming package of practices in wheat (2 nd Year)						

			in soil						
5	Rice-Wheat-Greengram (IWM)	Greengram	Low Yield due to heavy infestation of weeds and no use post emergence of weed	Assessment of Pre and Post Emergence herbicide in Green gram (1 st year)					
6	Rice-Wheat-Greengram (IWM)	Soybean	Low Yield due to heavy infestation of weeds and no use post emergence of weed	Assessment of Pre and Post Emergence herbicide in soybean (1 st year)					
7	Rice-Wheat-Greengram (IWM)	Wheat	Low Yield due to heavy infestation of weeds and no use post emergence of weed	Assessment of Pre and Post Emergence herbicide in wheat (1 st year)					
8	Rice-Chickpea-Green gram (INM)	Chickpea	low yield due to imbalance used of fertilizer	Assessment of nutrient management in chickpea (1 st year)					
9	Rice-Wheat-Greengram (Soil Health and Fertility Management)	Green gram	Farmers are facing problem for nutrient management in organic farming	Assessment of Phosphorus Rich Organic Matter (PROM) in Greengram for Nutrient management (2 nd Year)					
10	Rice-Wheat-Greengram	Paddy	Farmers are facing	Assessment of Phosphorus Rich Organic Matter (PROM) in Paddy for Nutrient management (2 nd Year)					

	m (Soil Health and Fertility Management)		problem for nutrient management in organic farming						
11	Rice-Wheat-Greengram (Soil Health and Fertility Management)	Wheat	Farmers are facing problem for nutrient management in organic farming	Assessment of Phosphorus Rich Organic Matter (PROM) in wheat for Nutrient management (2 nd Year)					
12	Rice – wheat – Green gram (PLP)	Rice	Heavy incidence of rice leaf folder, indiscriminate use of insecticide and increasing of input cost	Assessment of bio agent <i>Trichogramma chilonis</i> for management of Rice leaf folder (1 st year)					
13	Rice – wheat – Green gram (PLP)	Chickpea	Low plant population due to severe incidence of wilt reduces the yield of chickpea	Assessment of bio agents for management of wilt disease in Chickpea (1 st year)					
14	Rice – wheat – Green gram (PLP)	Okra	Okra cultivated in 560 ha. area in district, indiscriminate use of insecticide for managing fruit	Assessment of integrated pest management for management of fruit and shoot borer in Okra (1 st year)					

			and shot borer in Okra farmers applied average 12 – 16 spray during crop session, Pesticide residue too high.						
15	Varietal evaluation	Sweet corn	Farmers grow common maize so get low yield and low return	Assessment of sweet corn in drip and plastic mulching (2 nd Year)					
16	Horticulture	Chilly	In Kharif season farmers grow chilly in flat bed so Crop damaged due to water logging conditions and pest attack	Assessment of ridge & furrow method for late Kharif chilli Kashi Anmol production (2 nd Year)					
17	Crop Diversification	Strawberry	In Rabi season farmers grow conventional vegetable crops like cabbage and market glut so get low return	Assessment of Strawberry Production in drip and plastic mulching (2 nd Year)					
18	Nutritional security	Kutki millets	Anaemia in adolescent girls	Assessment of Kutki millets intake for improvement of haemoglobin level in adolescent girls (2 nd Year)					

Crop Production

Details of On Farm Trial (OFT)

OFT-1

Crop	Green gram	
Title of on farm trial	Assessment of Natural Farming package of practices in Greengram (2 nd Year)	
Problem diagnosed	High cost of crop cultivation under chemical farming, reduce organic carbon in soil	
Farmers' Practices	chemical farming	
Details of technologies selected for assessment	T ₁	Chemical Farming use of fertilizer, insecticide, weedicides
	T ₂	Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
Source of technology	Acharya devvrat	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	15000/-	
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of branches/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail	

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in Greengram (2 nd Year)
Year/Season:	Zayad 2023
Farming situation:	Irrigated
Problem diagnosis:	High cost of crop cultivation under chemical farming, reduce organic carbon in soil
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Chemical Farming use of fertilizer, insecticide, weedicides
T ₂ –Recommended Practice-	Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
T ₃ - Recommended Practice-	
Date of sowing:	March 2023
Date of harvesting:	May 2023
Source of technology:	Acharya devvrat
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Green gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Crop	Paddy	
Title of on farm trial	Assessment of Natural Farming package of practices in Paddy (2 nd Year)	
Problem diagnosed	High cost of crop cultivation under chemical farming, reduce carbonic organ in soil	
Farmers' Practices	Chemical farming	
Details of technologies selected for assessment	T ₁	Chemical Farming use of fertilizer, insecticide, weedicides
	T ₂	Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
Source of technology	Acharya devvrat	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	2500/-	
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No. of tillers/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail	

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in Paddy (2 nd Year)
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	High cost of crop cultivation under chemical farming, reduce organic carbon in soil
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Chemical Farming use of fertilizer, insecticide, weedicides
T ₂ –Recommended Practice-	Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
T ₃ - Recommended Practice-	
Date of sowing:	July 2023
Date of harvesting:	November 2023
Source of technology:	Acharya devvrat
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Crop	Wheat	
Title of on farm trial	Assessment of Natural Farming package of practices in wheat (2 nd Year)	
Problem diagnosed	High cost of crop cultivation under chemical farming, reduce carbonic organ in soil	
Farmers' Practices	Chemical farming	
Details of technologies selected for assessment	T ₁	Chemical Farming use of fertilizer, insecticide, weedicides
	T ₂	Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
Source of technology	Acharya devvrat	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	2500/-	
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of tillers/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail	

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in paddy (2 nd Year)
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	High cost of crop cultivation under chemical farming, reduce organic carbon in soil
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Chemical Farming use of fertilizer, insecticide, weedicides
T ₂ –Recommended Practice-	Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
T ₃ - Recommended Practice-	
Date of sowing:	November 2023
Date of harvesting:	March 2023
Source of technology:	Acharya devvrat
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Crop	Chickpea
Title of on farm trial	Assessment of Natural Farming package of practices in chickpea (2 nd Year)
Problem diagnosed	High cost of crop cultivation under chemical farming, reduce carbonic organ in soil
Farmers' Practices	Chemical farming
Details of technologies selected for assessment	T ₁ | Chemical Farming use of fertilizer, insecticide, weedicides
	T ₂ | Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
Source of technology	Acharya devvrat
Plot size	0.2 ha. each trial
No. of farmers	5
Total cost	2500/-
Critical input	Drum for Jeevamrit, Material for making of Jeevamrit and ghan jeevamrit (Gagrry, Besan etc.)
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No. of tillers/plant, no. of seeds/plant, yield/ha., days to maturity, organic matter in soil and microbial count testing before and after conducting of trail

Detailed Information about OFT:

Name of Discipline	Breeding
Title of on-farm trial:	Assessment of Natural Farming package of practices in chickpea (2 nd Year)
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	High cost of crop cultivation under chemical farming, reduce organic carbon in soil
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Chemical Farming use of fertilizer, insecticide, weedicides
T ₂ –Recommended Practice-	Whole package and practices of Natural Farming use of jivamrit, Ghan jivamrit, Dashparni ark
T ₃ - Recommended Practice-	
Date of sowing:	November 2023
Date of harvesting:	March 2023
Source of technology:	Acharya devvrat
Characteristics of technology:	Low cost, effective, ecofriendly
Name of Crop:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Agronomy

Details of On Farm Trial (OFT)

OFT-1

Crop	Green gram
Title of on farm trial	Assessment of Pre and Post Emergence herbicide in Green gram (1st year)
Problem diagnosed	Low Yield due to heavy infestation of weeds and no use post emergence of weed
Farmers' Practices	Application of herbicide
Details of technologies selected for assessment	T ₁ Pre emergence herbicide (Pendimethalin 30% + Imazethapyr 2% EC)
	T ₂ Application of Pre (Pendimethalin 30% + Imazethapyr 2% EC) and Post Emergence (Imezathapyr + Imazamox/quizalofop ethyl) herbicide
Source of technology	ICAR-DWR- Jabalpur
Plot size	0.2 ha. each trial
No. of farmers	5
Total cost	14500/-
Critical input	Herbicide
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Weed density, no. of branches/plant, no. of pods/plant, yield (q/ha.), Net income, Benefit Cost ratio and farmers feedback

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Pre and Post Emergence herbicide in Green gram (1st year)
Year/Season:	Zayad 2023
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to heavy infestation of weeds and no use post emergence of weed
Thematic area:	Weed Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Application of herbicide
T ₂ –Recommended Practice-	Pre emergence herbicide (Pendimethalin 30% + Imazethapyr 2% EC)
T ₃ - Recommended Practice-	Application of Pre (Pendimethalin 30% + Imazethapyr 2% EC) and Post Emergence (Imezathapyr + Imazamox/ quizalofop ethyl) herbicide
Date of sowing:	March 2023
Date of harvesting:	May 2023
Source of technology:	ICAR-DWR- Jabalpur
Characteristics of technology:	Low cost, effective
Name of Crop:	Green gram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

OFT-2

Crop	Soybean	
Title of on farm trial	Assessment of Pre and Post Emergence herbicide in Soybean (1 st year)	
Problem diagnosed	Low Yield due to heavy infestation of weeds and no use of pre emergence herbicide	
Farmers' Practices	Application of herbicide	
Details of technologies selected for assessment	T ₁	Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
	T ₂	Pre- Emergence (Diclosulam 84 WP/pendimethalin 30EC) + Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
Source of technology	ICAR-DWR- Jabalpur	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	14500/-	
Critical input	Herbicide	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Weed density, no. of branches/plant, no. of pods/plant, weed index, yield (q/ha.), Net income, Benefit Cost ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Pre and Post Emergence herbicide in Soybean (1 st year)
Year/Season:	Kharif 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to heavy infestation of weeds and no use of pre emergence herbicide
Thematic area:	Weed Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
T ₂ –Recommended Practice-	Pre- Emergence (Diclosulam 84 WP/pendimethalin 30EC) + Post emergence (Fluazifop-p-butyl 11.1% + Fomesafen 11.1%)
T ₃ - Recommended Practice-	Power weeder
Date of sowing:	July 2023
Date of harvesting:	September 2024
Source of technology:	ICAR-DWR- Jabalpur
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Crop	Wheat	
Title of on farm trial	Assessment of pre and Post Emergence herbicide in Wheat (1st year)	
Problem diagnosed	Low Yield due to heavy infestation of weeds and no residue management	
Farmers' Practices	Application of herbicide (Post emergence herbicide)	
Details of technologies selected for assessment	T ₁	Pre emergence (Pendimethalin 30%) + Post emergence (metsulfuron 75% WP)
	T ₂	Zero tillage (90% crop residue) + need based application of herbicide
Source of technology	ICAR-DWR- Jabalpur	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	17000/-	
Critical input	sowing by Happy seeder, Herbicide	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Weed density, weed index , no. of tillers/plant, yield (in q/ha.), Net income, Benefit Cost ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of pre and Post Emergence herbicide in Wheat (1 st year)
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to heavy infestation of weeds and no residue management
Thematic area:	Weed Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Pre emergence herbicide (Pendimethalin 30%)
T ₂ –Recommended Practice-	Pre emergence (Pendimethalin 30%) + Post emergence (metsulfuron 75% WP)
T ₃ - Recommended Practice-	Zero tillage (90% crop residue) + need-based application of herbicide
Date of sowing:	November 2024
Date of harvesting:	March 2024
Source of technology:	ICAR-DWR- Jabalpur
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Crop	Chickpea	
Title of on farm trial	Assessment of integrated nutrient management in chickpea (1 st year)	
Problem diagnosed	low yield due to imbalance used of fertilizer	
Farmers' Practices	Application of fertilizer	
Details of technologies selected for assessment	T ₁	Imbalance use of fertilizer
	T ₂	100% RDF (NPK) 20:60:20
Source of technology	JNKVV- Jabalpur	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	9000	
Critical input	Fertilizer	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	No. of pods/plant, yield (in q/ha.), Net income, Benefit Cost ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of integrated nutrient management in chickpea (1 st year)
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	low yield due to imbalance used of fertilizer
Thematic area:	Integrated nutrient Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Imbalance use of fertilizer
T ₂ –Recommended Practice-	100% RDF (NPK) 20:60:20
T ₃ - Recommended Practice-	
Date of sowing:	November 2024
Date of harvesting:	March 2024
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Soil Science

OFT-1

Crop / Enterprise	Greengram	
Title of on farm trial	Assessment of Phosphorus Rich Organic Matter (PROM) in Greengram for Nutrient management (2nd Year)	
Problem diagnosed	Farmers are gating problem for nutrient management in organic farming	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected for assessment	T ₁	Imbalance nutrients management
	T ₂	Application of PROM @ 80 Kg/ ½ Acre
Source of technology	NIT Durgapur, 2012	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.7,000/-	
Critical input	PROM	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	No. of branches/plant, no. of seeds/pod, yield/ha., days to maturity, organic matter in soil and available phosphorus B:C ratio Farmer recognition to other farmers	

Detailed Information about OFT: 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Phosphorus Rich Organic Matter (PROM) in Greengram for Nutrient management (2nd Year)
Year/Season:	2023 /Summer
Farming situation:	Irrigated
Problem diagnosis:	Farmers are gating problem for nutrient management in organic farming
Thematic area:	Soil Fertility and nutrient management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance nutrients management
T2 –Recommended Practice-	Application of PROM @ 80 Kg/ ½ Acre
T3- Recommended Practice-	
Date of sowing:	March 2023
Date of harvesting:	June 2023
Source of technology:	NIT Durgapur, 2012
Characteristics of technology:	Organic sources of phosphorus as well as other nutrients in trace amount
Name of Crop/Enterprises:	Greengram
Recommendations for Farmers	2 nd Year recommendation after 3 rd year
Recommendations for Deptt. Personnel	2 nd Year recommendation after 3 rd year

OFT-2

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Phosphorus Rich Organic Matter (PROM) in Paddy for Nutrient management (2 nd Year)	
Problem diagnosed	Farmers are gating problem for nutrient management in organic farming	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected for assessment	T ₁	Imbalance nutrients management
	T ₂	Application of PROM @ 80 Kg/ ½ Acre
Source of technology	NIT Durgapur, 2012	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.7,000/-	
Critical input	PROM	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	No. of tillers/plant, no. of grains/panicle, yield/ha., days to maturity, organic matter in soil and available phosphorus B:C ratio Farmer recognition to other farmers	

Detailed Information about OFT: 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Phosphorus Rich Organic Matter (PROM) in Paddy for Nutrient management (2 nd Year)
Year/Season:	2023 /Kharif
Farming situation:	Irrigated
Problem diagnosis:	Farmers are gating problem for nutrient management in organic farming
Thematic area:	Soil Fertility and nutrient management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance nutrients management
T2 –Recommended Practice-	Application of PROM @ 80 Kg/ ½ Acre
T3- Recommended Practice-	
Date of sowing:	July 2023
Date of harvesting:	November 2023
Source of technology:	NIT Durgapur, 2012
Characteristics of technology:	Organic sources of phosphorus as well as other nutrients in trace amount
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	2 nd Year recommendation after 3 rd year
Recommendations for Deptt. Personnel	2 nd Year recommendation after 3 rd year

OFT-3

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Phosphorus Rich Organic Matter (PROM) in Wheat for Nutrient management (2 nd Year)	
Problem diagnosed	Farmers are gating problem for nutrient management in organic farming	
Farmers' Practices	Imbalance nutrients management	
Details of technologies selected for assessment	T ₁	Imbalance nutrients management
	T ₂	Application of PROM @ 80 Kg/ ½ Acre
Source of technology	NIT Durgapur, 2012	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs.7,000/-	
Critical input	PROM	
Performance indicators: (xxxii) Technical- yield (q/ ha) (xxxiii) Economic (xxxiii) Social – Employment generation	No. of tillers/plant, no. of seeds/spike, yield/ha., days to maturity, organic matter in soil and available phosphorus B:C ratio Farmer recognition to other farmers	

Detailed Information about OFT: 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Phosphorus Rich Organic Matter (PROM) in Wheat for Nutrient management (2 nd Year)
Year/Season:	2023 /Kharif
Farming situation:	Irrigated
Problem diagnosis:	Farmers are gating problem for nutrient management in organic farming
Thematic area:	Soil Fertility and nutrient management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance nutrients management
T2 –Recommended Practice-	Application of PROM @ 80 Kg/ ½ Acre
T3- Recommended Practice-	
Date of sowing:	November 2023
Date of harvesting:	March 2024
Source of technology:	NIT Durgapur, 2012
Characteristics of technology:	Organic sources of phosphorus as well as other nutrients in trace amount
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	2 nd Year recommendation after 3 rd year
Recommendations for Deptt. Personnel	2 nd Year recommendation after 3 rd year

Plant Protection

Details of On Farm Trial (OFT)

OFT-1

Crop	Rice	
Title of on farm trial	Assessment of bio agent <i>Trichogramma chilonis</i> for management of Rice leaf folder (1 st year)	
Problem diagnosed	Heavy incidence of rice leaf folder, indiscriminate of insecticide and increasing of input cost	
Farmers' Practices	Application of insecticide	
Details of technologies selected for assessment	T ₁	Installation of Pheromone trap @ 12 per acre and application of egg parasitoid <i>Trichogramma chilonis</i> @ 1 lakh/ha at 37, 41 and 51 days after transplanting.
	T ₂	Installation of Pheromone trap @ 12 per acre and application of egg parasitoid <i>Trichogramma chilonis</i> @ 1 lakh/ha 37, 41 and 51 days after transplanting and need based application of insecticide.
Source of technology	NIPHM Hyderabad	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	9000 /-	
Critical input	Pheromone trap and Tricho-card	
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	2 FDL with larva/hill, production (Yield in qt/ha.), Net income, B : C ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of bio agent <i>Trichogramma chilonis</i> for management of Rice leaf folder
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of rice leaf folder, indiscriminate of insecticide and increasing of input cost
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Application of insecticide
T ₂ –Recommended Practice-	Installation of Pheromone trap @ 12 per acre and application of egg parasitoid <i>Trichogramma chilonis</i> @ 1 lakh/ha at 37, 41 and 51 days after transplanting.
T ₃ - Recommended Practice-	Installation of Pheromone trap @ 12 per acre and application of egg parasitoid <i>Trichogramma chilonis</i> @ 1 lakh/ha 37, 41 and 51 days after transplanting and need based application of insecticide.
Date of sowing:	July 2023
Date of harvesting:	November 2023
Source of technology:	NIPHM Hyderabad
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Rice
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Crop	Chickpea				
Title of on farm trial	Assessment of bio agents for management of wilt disease in Chickpea				
Problem diagnosed	Low plant population due severe incidence of wilt reduces the yield of chickpea				
Farmers' Practices	No use of <i>Trichoderma viride</i> , <i>Pseudomonas fluorescens</i> and no crop rotation				
Details of technologies selected for assessment	<table border="1"> <tr> <td>T₁</td> <td>Soil application of FYM enriched <i>T. viride</i> @5 kg/ha before last ploughing followed by sowing of chickpea seed treated with <i>T. viride</i> @10g/kg</td> </tr> <tr> <td>T₂</td> <td>Soil application of FYM enriched <i>T. viride</i> @ 5 kg/ha followed by sowing of chickpea pea seed treated with <i>T. viride</i> @10g/kg and <i>Pseudomonas fluorescens</i> @ 10 ml per kg.</td> </tr> </table>	T ₁	Soil application of FYM enriched <i>T. viride</i> @5 kg/ha before last ploughing followed by sowing of chickpea seed treated with <i>T. viride</i> @10g/kg	T ₂	Soil application of FYM enriched <i>T. viride</i> @ 5 kg/ha followed by sowing of chickpea pea seed treated with <i>T. viride</i> @10g/kg and <i>Pseudomonas fluorescens</i> @ 10 ml per kg.
T ₁	Soil application of FYM enriched <i>T. viride</i> @5 kg/ha before last ploughing followed by sowing of chickpea seed treated with <i>T. viride</i> @10g/kg				
T ₂	Soil application of FYM enriched <i>T. viride</i> @ 5 kg/ha followed by sowing of chickpea pea seed treated with <i>T. viride</i> @10g/kg and <i>Pseudomonas fluorescens</i> @ 10 ml per kg.				
Source of technology	JNKVV Jabalpur				
Plot size	0.2 ha. each trial				
No. of farmers	5				
Total cost	6000/-				
Critical input	<i>Trichoderma viride</i> , <i>Pseudomonas fluorescens</i>				
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	Plant population per meter square, (Yield in q/ha.), Net income, B : C ratio and farmers feedback				

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of bio agents for management of wilt disease in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low plant population due severe incidence of wilt reduces the yield of chickpea
Thematic area:	Integrated Disease Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	No use of <i>Trichoderma viride</i> , <i>Pseudomonas fluorescens</i> and no crop rotation
T ₂ –Recommended Practice-	Soil application of FYM enriched <i>T. viride</i> @5 kg/ha before last ploughing followed by sowing of chickpea seed treated with <i>T. viride</i> @10g/kg
T ₃ - Recommended Practice-	Soil application of FYM enriched <i>T. viride</i> @ 5 kg/ha followed by sowing of chickpea pea seed treated with <i>T. viride</i> @10g/kg and <i>Pseudomonas fluorescens</i> @ 10 ml per kg.
Date of sowing:	November 2023
Date of harvesting:	March 2024
Source of technology:	JNKVV Jabalpur
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Crop	Okra	
Title of on farm trial	Assessment of integrated pest management for management of fruit and shoot borer in Okra	
Problem diagnosed	Okra cultivated in 560 ha. area in district, indiscriminate use of insecticide for managing fruit and shot borer in Okra farmers applied average 12 – 16 spray during crop session, Pesticide residue too high.	
Farmers' Practices	Indiscriminate use of insecticide (12-16 sprays during crop session)	
Details of technologies selected for assessment	T ₁	Installation of Pheromone trap @ 25 per ha. Release egg parasitoid, <i>Trichogramma chilonis</i> @ 1 lakh per ha. Release first instars larvae of predator, <i>Chrysoperla carnea</i> @ 10,000/ha. and application entomopathogenic nematodes (EPNs) @ 625 crore infective juveniles of <i>Steinernema feltiae</i> /ha.
	T ₂	Installation of pheromone trap @ 25 per ha. application of bio pesticide <i>Beauvaria bassiana</i> @ 1 liter per ha. and need based spray of Insecticide Spinosad 45 SC.
Source of technology	NIPHM Hyderabad	
Plot size	0.2 ha. each trial	
No. of farmers	5	
Total cost	23000/-	
Critical input	Pheromone traps, <i>Trichogramma chiloni</i> , <i>Chrysoperla carnea</i> , EPNs, <i>Beauvaria bassiana</i> and Spinosad 45 SC	
Performance indicators: (xl) Technical- yield (q/ ha) (xli) Economic (xlii) Social – Employment generation	Pest infestation % (marketable fruits - q/ha. and infested fruit – q/ha., Yield in qt/ha., Net income, B : C ratio and farmers feedback	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated pest management for management of fruit and shoot borer in Okra
Year/Season:	Summer 2024
Farming situation:	Irrigated
Problem diagnosis:	Okra cultivated in 560 ha. area in district, indiscriminate use of insecticide for managing fruit and shot borer in Okra farmers applied average 12 – 16 spray during crop session, Pesticide residue too high.
Thematic area:	Integrated Pest Management
No of trials:	5
No. of farmers involved	5
Type of OFT :	Assessment
Details of technology selected for assessment:	
T ₁ – Farmers Practice-	Indiscriminate use of insecticide (12-16 sprays during crop session)
T ₂ –Recommended Practice-	Installation of Pheromone trap @ 25 per ha. Release egg parasitoid, <i>Trichogramma chilonis</i> @ 1 lakh per ha. Release first instars larvae of predator, <i>Chrysoperla carnea</i> @ 10,000/ha. and application entomopathogenic nematodes (EPNs) @ 625 crore infective juveniles of <i>Steinernema feltiae</i> /ha.
T ₃ - Recommended Practice-	Installation of pheromone trap @ 25 per ha. application of bio pesticide <i>Beauvaria bassiana</i> @ 1 liter per ha. and need based spray of Insecticide Spinosad 45 SC.
Date of sowing:	January 2024
Date of harvesting:	February to June 2024

Source of technology:	NIPHM Hyderabad
Characteristics of technology:	Low cost, eco-friendly, effective
Name of Crop:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Horticulture

OFT: 1

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 sweet corn in Drip and Pastic mulching (2nd Year)
Year/Season:	2023 /Spring summer
Farming situation:	Irrigated
Problem diagnosis:	Farmers grow common maize so get low yield and low return
Thematic area:	Varietal evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Maize Pioneer- 3253
T2 –Recommended Practice-	Sweet corn Sugar-75
T3- Recommended Practice-	Nil
Date of sowing:	15-02-2023
Date of harvesting:	30-04-2023
Source of technology:	IARI Pusa New Delhi
Characteristics of technology:	No. of Corns more per plant and higher value
Name of Crop/Enterprises:	Crop Sweet corn
Recommendations for Farmers	2 nd Year recommendation after 3 rd year
Recommendations for Deptt. Personnel	2 nd Year recommendation after 3 rd year
Feedback	2 nd Year recommendation after 3 rd year

OFT-2

Crop / Enterprise	Crop Chilly
Title of on farm trial	Assessment of ridge & furrow method for late Kharif chilli Kashi Anmol production (2nd Year)
Problem diagnosed	In Kharif season farmers grow chilly in flat bed so Crop damaged due to water logging conditions and pest attack
Farmers' Practices	Chilly Sunidhi F1
Details of technologies selectedfor assessment	T ₁ | T1 - Flat bed (Chilly Sunidhi F1)
	T ₂ | T2 - Furrow method (Kashi Anmol)
Source of technology	ICAR IIVR Varanasi
Plot size	0.2 ha
No. of farmers	5
Total cost	Rs.12,000/-
Critical input	Seed

Performance indicators: (xliii) Technical- yield (q/ ha) (xliv) Economic (xlv) Social – Employment generation	No. of Fruit yield (q/ ha) B;C ratio Farmer recognition to other farmers
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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 ridge & furrow method for late Kharif chilli Kashi Anmol production (2nd Year)
Year/Season:	2023 September
Farming situation:	Irrigated
Problem diagnosis:	In Kharif season farmers grow chilly in flat bed so Crop damaged due to water logging conditions and pest attack
Thematic area:	Varietal evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Chilly Sunidhi F1
T2 –Recommended Practice-	Kashi Anmol
T3- Recommended Practice-	
Date of sowing:	15.09.2023
Date of harvesting:	15.02.2024
Source of technology:	ICAR IIVR Varanasi
Characteristics of technology:	Leaf curl resistant variety
Name of Crop/Enterprises:	Crop Chilly
Recommendations for Farmers	2 nd Year recommendation after 3 rd year
Recommendations for Deptt. Personnel	2 nd Year recommendation after 3 rd year
Feedback	2 nd Year recommendation after 3 rd year

OFT-3

Crop / Enterprise	Crop Strawberry
Title of on farm trial	Assessment of Strawberry Production (2nd Year)
Problem diagnosed	In Rabi season farmers grow conventional vegetable crops like cabbage and market glut so get low return
Farmers' Practices	Cabbage green chalanger-1
Details of technologies selectedfor assessment	T ₁ Cabbage green chalanger-1
	T ₂ Strawberry winter dawn
Source of technology	Maharashtra mahawaleswar & MP Ratlam Progressive farmer field
Plot size	200 square meter
No. of farmers	5
Total cost	30000/-
Critical input	Strawberry tissue culture Plants

Performance indicators: (xlvii) Technical- yield (q/ ha) (xlviii) Economic (xlviii) Social – Employment generation	No. of Fruit yield (q/ ha) B;C ratio Farmer recognition to other farmers
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Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Strawberry Production in precision agriculture (2nd Year)
Year/Season:	2023 Rabi
Farming situation:	Irrigated
Problem diagnosis:	In Rabi season farmers grow conventional vegetable crops like cabbage and market glut so get low return
Thematic area:	Crop Diversification
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cabbage green chalanger-1
T2 –Recommended Practice-	Strawberry winter dawn
T3- Recommended Practice-	Crop Strawberry
Date of sowing:	15 November 2023
Date of harvesting:	15 March 2024
Source of technology:	Maharashtra mahawaleswar & MP Ratlam Progressive farmer field
Characteristics of technology:	High value crop
Name of Crop/Enterprises:	Strawberry
Recommendations for Farmers	2 nd Year recommendation after 3 rd year
Recommendations for Deptt. Personnel	2 nd Year recommendation after 3 rd year
Feedback	2 nd Year recommendation after 3 rd year

Information about Extension OFT:

Title	Study of smart mobile agri-applications dissemination of agri- information (2 nd year)
Season & Year	2023
Problem identified	Low knowledge of Smart phone agri-applications of agriculture App
Thematic Area	Extension
Farming situation	
Name of Technology Intervention under study	IARI Pusa New Delhi
Farmers Practice	Farmers practice (No use of smart mobile)
No. of replication (Farmers)	50

Home Science

Information about Home Science OFT: 1

Title of on-farm trial:	Assessment of Kutki millets intake for improvement of haemoglobin level in adolescent girls (2 nd Year)
Year/Season:	2023
Problem diagnosis:	Anaemia in adolescent girls Lack of knowledge in processing of Kutki millets
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional security
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Farmer practices Wheat flour/rice
T2 –Recommended Practice-	100 gm Kutki /day/adolescent girls for 3 month
Source of technology:	IIMR HYDERABAD
Characteristics of technology:	Hemoglobin label, weight, Height BMI (before and after 3 month of assessment)
Name of Crop/Enterprises:	Kutki millets
Farming situation:	
Date of sowing:	Oct.
Date of harvesting:	

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 2

Title of on-farm trial:	Assessment of Jawahar modal in backyard for household nutritional security and income generation
Year/Season:	2023
Problem diagnosis:	Majority of farmwomen have small area in backyard but not proper utilization of backyard
Thematic area: (Focus area in DFI and nutrition smart initiatives)	Nutritional security and income generation
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Farmwomen only grow limited vegetable in backyard in unorganized way
T2 –Recommended Practice-	100 Pigeon pea plant in poly propylene bag (PPB) intercropped with vegetables
Source of technology:	JNKVV Jabalpur, 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Pigeonpea, Semilata, Vegetables and Lac production
Farming situation:	Irrigated
Date of sowing:	June 2023
Date of harvesting:	May 2024
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	Chickpea	Integrated Pest Management	Demonstration of IPM module for management of gram pod borer in chickpea	Pheromone trap, Bio agent, Bio pesticide and Insecticide	Rabi 2023-24	0.4	10	Gram pod borer larvae in one meter row length, Yield (in q. per ha.), Net income, B:C Ratio, Farmers feedback
2	Sweet Corn	Varietal Evaluation	Sweet corn variety Sugar 75	Seed	Spring summer 2024	0.2	10	B:C ratio
3	Broccoli	Varietal Evaluation	Broccoli variety Saki demonstration in	Seed	Rabi 2023	0.2	10	B:C ratio
4	Capsicum	Varietal Evaluation	Capsicum variety Delisa demonstration	Seed	Rabi 2023	0.2	10	B:C ratio
5	Paddy	Soil Health and Fertility Management (Based on soil test analysis)	Soil Test Based application of Ammonium Sulphate, Zinc Sulphate and RDF in Paddy	Fertilizers	Kharif 2023	0.4	10	B:C ratio, Incidence of Khaira, Days to maturity, no. of tillers/plant, no. of seeds/pant, yield/ha.
6	Vegetables	Vegetables	Demonstration of Backyard Kitchen Garden	Vegetables seeds (Cucumber, Okra, Sem, Gourd, Tomato, Brinjal, Carrot, Cauliflower, Radish, Pea, Methi, Coriander, Chilli, Onion,	Around the year /2023	400 sqm per trial	10	Energy, Protein, Iron, Calcium, Increase in Weight (kg), Increase in Height (cm), BMI (Weight (kg)/ Height (in m) * Height (in m)

				French bean , Sweetpotato, Spainch, Potato)				
7	Finger millet	Nutrition security	Demonstration of finger millet porridge among lactating women	Finger millet	2023	100 g porridge per women per day for 3 month = 9kg porridge (70/kg)	10	Energy Protein Iron Calcium Increase in Weight (kg) Increase in Height (cm), BMI (Weight (kg)/(Height (in m) * Height (in m)
8	JK-4 KUTKI MILLET	Income generation	Demonstration of variety JK-4 Kutki Millet Production for nutrition security	JK-4 KUTKI MILLET	June	0.4	10	Yield, B:C
9	Indira – 1 Kodo millet	Income generation	Demonstration of variety Indira – 1 Kodo Millet Production for nutrition security	Indira – 1 Kodo millet	June	0.4	10	Yield
10	Sawa VL -- 127	Income generation	Demonstration of variety Sawa VL— 127 millet Production for nutrition security	Sawa –VL127	June	0.4	10	yield
11	Paddy	Varietal evaluation	Improved variety JR-206 of Paddy	JR-206 of Paddy	Kharif 2023	0.4	10	Days to maturity, no. of tillers/plant, no. of seeds/pant, yield/ha.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10		100
2	Farmers Training	10		100
3	Media coverage	10		Mass
4	Training for extension functionaries	1		10

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
1								
2								
3								

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soyabean	IPM	Integrated Pest Management	Seed, Pheromone traps, sticky traps bio pesticide and insecticide	<i>Kharif 2023</i>	20	50	Yield, Net income, B:C ratio Farmers feedback
2	Sesame	IPM	Integrated Pest Management	Seed, Pheromone traps, sticky traps bio pesticide and insecticide	<i>Kharif 2023</i>	20	50	Yield, Net income, B:C ratio Farmers feedback
3	Mustard	IPM	Integrated Pest Management	Seed, Pheromone traps, sticky traps bio pesticide and insecticide	<i>Rabi 2023-24</i>	20	50	Yield, Net income, B:C ratio Farmers feedback
4	Pigeon pea	Varietal evaluation	Improved variety, IWM, IPM, INM and natural farming	Improved variety, IWM, IPM, INM and natural farming	Kharif 2023-24	20	50	Yield q/ha
5	Chickpea	Varietal evaluation			Rabi 2023-24	20	50	Yield q/ha
6	Lentil	Varietal evaluation			Rabi 2023-24	10	25	Yield q/ha
7	Greengram	Varietal evaluation			Spring Summer 2024	10	25	Yield q/ha

Extension and Training activities under CFLDs Oilseed and Pulses

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Home Science										
June	Farmers and farmwomen	Training on Household food security by nutrition gardening techniques								20
July	Farmers and farmwomen	Designing and development for high nutrient efficiency diet								20
August	Farmers and farmwomen	Training on value addition of finger millet porridge product								20
September	Farmers and farmwomen	Training on preparation of miner millet products								20
October	Farmers and farmwomen	Training on preparation mango product								20
November	Farmers and farmwomen	Training on rural craft like bamboo material preparation								20
December	Farmers and farmwomen	Training on micro nutrient impertinence in diet								20
November	Farmers and farmwomen	Training on importance of mushroom production and consumption								20
Plant Protection										
February	Farmers and farmwomen	Integrated Pest Management in Vegetables	1							20
March	Farmers and farmwomen	Seed treatment in summer Greengram with beneficial microbes	1							20
March	Farmers	Integrated Pest management	1							20

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	wheat	GW-322	100.00
	Paddy	Kranti	100.00
		JR-206	150.00
		Pusa- 1692	30.00
		Pusa 1847	20.00
OILSEEDS	soybean	JS- 2098	500.00
PULSES	Green Gram	MH- 421	10.00
		PDM-139	10.00
VEGETABLES	Turmeric	Rajendra sonali	10
	Zinger	Deshi	1
FLOWER CROPS	Rose	Deshi	500
	Marigold	Pusa Narangi	500
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Dasheri	50
	Guava	Lucknow 49	50
	Papaya	Pusa nanha	200
SPICES			
VEGETABLES	Capsicum	Delisa	500
	Brinjal		500
	Chilly	Kashi Anmol	500
	Drumstick	PKM-1	500
	Tomato	Kashi aman	500
	Turnip		500
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
No. of Soil Sample	Soil sample testing		1000 Samples

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	Viridee		1000
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				

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

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
March 2023	Three month	2000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Youtube channel	Short video for Farmer	12
2	Youtube channel	Natural farming	12
3	Social media	All success story & natural farming method	24

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	Junavani Dhana	Bankhedi	7 Km
2			
3			
4			
5			
6			
7			
8			

1. No. of farm families selected per village : 10

2. No. of survey/PRA to be conducted: 10

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2022

List of equipments purchased: yes

Sl. No.	Name of the Equipment	Qty.	Condition
1	AAS	1	Working
2	Electronic balance	2	Working
3	Rotary shaker	1	Working
4	UV- VIS Spectrophotometer	1	Working
5	Flame photometer	1	Working
6	Hot plate	1	Working
7	Water distillation unit	1	Working
8	Kel plus nitrogen analyzer	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	100	
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

Ye

Name of Programme	Nature of linkage
ATMA	Workshop, Mela, DAESI
NFSM	CFLD

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries
Natural Farming		
Through the year	Natural Farming, Demonstration	8
	Training on Natural farming	100
	Awareness Programme on Natural farming	100
	Natural farming exposure visit	100
CBBO		
April	CBBO FPO exposure visit	100
May	CBBO FPO exposure visit	100
	Improve Business Plan – Organic produce (Pigeon pea, Green gram and Chickpea)	100
ARYA		
January	Exposure visit to Youth in different production unit, progressive farmers or entrepreneurs filed etc.	100 youths
February	Input support for unit establishment of production unit	50 youth (in different component)
March	Convergence with state and Central Govt. scheme	100 youth (in different component)

April	Field visit and documentation (successful entrepreneur)	100 youth (in different component)
May	Identification of new youth	200 youths
June	Resource mapping of selected youth	200 youths
July	Capacity building programme for Rural youth	200 youths
August	Input support for unit establishment of production unit	50 youths
September	Convergence with state and Central Govt. scheme	100 youth
October	Field visit and documentation (successful entrepreneur)	100 youths
November	Capacity building programme for Rural youth	200 youths
December	Exposure visit to Youth in different production unit, progressive farmers or entrepreneurs filed etc.	100 youths
Drone		
Throughout the year	Sugarcane	250
	Rice	100
	Wheat	100
	Greengram	100

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 10 Sq m

Crop	Season	No. of Variety	Particulars /details	Area (Sq m)
Green Gram	SUMMER -2023	7	Demonstration to farmers	105
Paddy	Kharif 2023	15	Demonstration to farmers	225
Sesame	Kharif 2023	2	Demonstration to farmers	30
Sorghum	Kharif 2023	1	Demonstration to farmers	15
Minor millets	Kharif 2023	10	Demonstration to farmers	150
Soybean	kharif 2023	7	Demonstration to farmers	105
Wheat	Rabi 2023-24	25	Demonstration to farmers	375
Chickpea	Rabi 2023-24	15	Demonstration to farmers	225
Mustard	Rabi 2023-24	2	Demonstration to farmers	30
Linseed	Rabi 2023-24	1	Demonstration to farmers	15

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Natural Farming unit	Ghan jeevamrit, Jeevamrit, Dashparni Ark, Neemastra	0.1	1000 q., 5000 L., 1000 L., 1000 L.
Natural Farming Demo. field	Chickpea, Paddy, Wheat,	0.4	20 q
Vegetable Demonstration Unit	vegetable Demonstration unit	4000	Production of Organic vegetables
Shade net	Vegetable, Fruit, Flower nursery preparation	100	5,0000 plant samplings production
Mushroom unit	Oster mushroom ,Butten mushroom	100	50KG
Nutritional garden	sessional vegetable	400	150 KG

Intensive crop production model	Promotion of Kusmi Lac on Flemingia semilata and intercropping with different vegetables (in different session) in backyard.	300	Kusmi Lac : in Kg. Vegetables, etc. in kg
Liquid Biofertilizers Production Unit	Azospirillum Consortium	-	250 l
	Rhizobium sp. Consortium	-	250 l
	Bacillus Sp. Consortium	-	250 l
	Iron Consortium	-	250 l
	Metarhizium Sp. Consortium	-	250 l
PROM Production Unit	PROM (Phosphorus Rich Organic Matter)	-	1000 q

ANNUAL ACTION PLAN 2023

KVK: Indore

Year of sanction:1976

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.S. Tailor (Incharge)	0731-2874151	9479828937	kvk_indore@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Vacant								
2	Subject Matter Specialist	Dr. Radheshyam Tailor	Subject Matter Specialist	Agril. Extension	Level 10	27/04/2002	2002	9425963891	kvk_indore@rediffmail.com	
3	Subject Matter Specialist	Dr. Dilip Kumar Mishra	Subject Matter Specialist	Horticulture	Level 10	06/07/2002	2002	9826041819	-do-	
4	Subject Matter Specialist	Dr. Shri Ram Dadhich	Subject Matter Specialist	Vety. & A.H.	Level 10	26/12/2005	2005	9826378767	-do-	
5	Subject Matter Specialist	Dr. Arpna Bajpai	Subject Matter Specialist	Agri. Engg.	Level 10	07/04/2022	2022	9115731211	-do-	
6	Subject Matter Specialist	MS. Archana Kumari	Subject Matter Specialist5	Home Science	Level 10	06/08/2015	2015	7745993444	-do-	
7	Subject Matter Specialist	Mr. Arun Kumar Shukla	Subject Matter Specialist6	Agronomy	Level 10	11/08/2015	2015	9425763527	-do-	
8	Programme Assistant	Mr. Nitin Kumar Pachlaniya	Programme Assistant	Soil Sc.	Level 6	01/09/2014	2014	9893153955	-do-	
9	Computer Programmer/ Programme Assistant	Mr. Adarsh Tiwari	Programme Assistant (Computer)	Computer Science	Level 6	18/12/2002	2002	9425954130	-do-	
10	Farm Manager	Mr. Rakesh Jain	Farm Manager	Agril. Extension	Level 6	01/03/2013	2013	9827795720	-do-	
11	Assistant	Mr. Anurag Tiwari	Accountant / superintendent	Commerce	Level 6	11/04/2011	2011	9617760420	-do-	
12	Jr. Stenographer / Comp. Operator	Mr. K. Chanchal	Stenographer	-	Level 4	07/08/2015	2015	8982905158	-do-	
13	Driver	Mr. Vijendra Chouhan	Driver	-	Level 3	10/03/2004	2004	9165566085	-do-	
14	Driver	Mr. Prakash Ravat	Driver	-	Level 3	19/08/2014	2014	7047256550	-do-	
15	Supporting staff	Mr. Satish Baghela	Supporting staff	-	Level 1	09/03/2004	2004	9179631246	-do-	
16	Supporting staff	Mr. O.P. Mansare	Supporting staff	-	Level 1	16/08/2014	2014	9977079716	-do-	

1.3 Total land with KVK (in ha):20.077

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

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in Lakh)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	23.02.2019	573.39	144.38	-	-	-
2.	Farmers Hostel	ICAR	1979-80	589.93	-	-	-	-
3.	Staff Quarters (6)	ICAR	1979-80	445	-	-	-	-
4.	Fencing	Revolving Fund	2016		-	-	-	-
5	Threshing floor	ICAR	2006	627.1	12.13	-	-	-
6	Implement Shed	Revolving Fund	31.03.2022			-	-	-
7	Poly House	-	-	-	-	-	-	-
8	Net House	-	-	-	-	-	-	-
9	Azola Unit	Revolving Fund	31.03.2018	6.68	0.10	-	-	-
10	Demonstration Units (Vermicompost Unit)	Revolving Fund	31.03.2007	111.5	1.5	-	-	-
11	Demonstration Units	-	-			-	-	-
12	Godown	ICAR	2006	139.3	with threshing floor	-	-	-

B) Vehicles

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

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	May 23
2	Oct 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	Soybean-Wheat/Chickpea Soybean-Garlic Soybean-Potato-Wheat/Chickpea Soybean-Potato-Onion
2	AES – 2	Soybean-Wheat/Chickpea Soybean-Garlic Soybean-Potato-Wheat/Chickpea Soybean-Potato-Onion

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

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

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Indore)

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> Plain topography Favorable climatic condition, Well irrigation facility. Well transportation facility, Proximity to the city. 	<ul style="list-style-type: none"> Uneven weather condition Deteriorating soil health condition Lack of organic matter No use of recommended variety by the farmer 	<p>There is a good scope of cultivation of export quality of wheat, potato, and Garlic. Also there is a very good scope of cultivation of Marigold, Chrysanthemum, Aster and Medicinal crop in the surrounding villages of Indore district.</p>	<ul style="list-style-type: none"> Extreme weather condition Heavy insect pest infestation due to use of old cultivars Stagnant. yield due to continuous same cropping system Insect pest resistant due to over dose use of insecticide and pesticide

AES-2 (Mhow)

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> Favorable climatic condition, Well irrigation facility. Well transportation facility, Nutrient rich soil most of the area 	<ul style="list-style-type: none"> Uneven weather condition Uneven topography Light soil in some of the area No use of recommended variety by the farmer 	<p>There is a good scope of cultivation of export quality of wheat, potato, and Garlic. Also there is a very good scope of cultivation of Marigold, Chrysanthemum, Aster and Medicinal crop in the surrounding villages of Indore district.</p>	<ul style="list-style-type: none"> Extreme weather condition Heavy insect pest infestation due to use of old cultivars Stagnant. yield due to continuous same cropping system Insect pest resistant due to over dose use of insecticide and pesticide

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	
Forest	
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	
Kharif	
Rabi	
Zaid	
Cropping Intensity	

Irrigated Area with Different Sources:

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

Soil types

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

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Soybean	219800	3861380	17.50
2	Maize	900	233040	25.60
3	Sorghum	200	1380	19.30
4	Wheat	127200	8399100	45.25
5	Chickpea	32200	269240	14.60
6	Potato	45500	11602500	250.50
7	Onion	14950	4784000	320
8	Garlic	14400	1872000	130

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

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

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

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

Priority / Thrust areas

S. No.	Particulars
1.	To enhance productivity of oilseed crops through varietal diversification, Integrated Plant Nutrient Management System (IPNMS), Integrated Pest Management (IPM), Integrated Disease Management (IDM), Weed management and scientific management practices.
2.	To enhance productivity of Pulse crops through varietal diversification, Integrated Plant Nutrient Management System (IPNMS), Integrated Pest Management (IPM), Integrated Disease Management (IDM), Weed management and scientific management practices.
3.	To enhance productivity of cereals through varietal diversification, Integrated Plant Nutrient Management System (IPNMS), Integrated Pest Management (IPM), Integrated Disease Management (IDM), Weed management and scientific management practices.
4.	To increase seed replacement rate by seed production programme in Soybean, Wheat and Gram.
5.	To reduce cost of cultivation by scientific and improve low cost production technologies.
6.	To aware the farmers about organic farming practices, resource conservation technologies and natural resource management and to motivate the farmers for adopting these technologies.
7.	To increase risk bearing ability by crop diversification, introduction of more remunerative cropping systems, Agrohorti system, Agroforestry system and live stock based farming systems. Introduction of medicinal and aromatic crops.
8.	To motivate the farmers for preparation and use of well decomposed, nutrient rich organic manure (Vermicompost, NADEP compost, Phospho compost etc.) along with biofertilizers and balanced use of chemical fertilizers (on soil test basis)
9.	To improve the Water productivity and Water Use Efficiency by scientific water management practices
10.	To increase the availability of green fodder through the year for increasing milk production. Introduction of new fodder and forage crops in existing fodder based cropping system.
11.	To adopt Plant protection measure for important vegetable and flowers crops.
12.	Use of micronutrient and hormones to enhance productivity and quality of vegetable and flower crops.
13.	Diversification of farming system through other field crops.
14.	Diversification of farming system through flower and vegetable cultivation.
15.	To improve the productivity and quality of Garlic and Potato.
16.	Introduction of open cultivated flower crops.
17.	Popularization of Soya products in rural area.
18.	Nutritional gardening.
19.	Control and management of stored grain pest.
20.	To introduce income generating skills among the youth
21.	To increase milk production by adopting balance diet and mineral nutrition.
22.	To reduce mortality percentage of calves through proper management.
23.	Adaptation of proper immunization programme.
24.	Control of Endo and Ecto parasites.
25.	Proper utilization of fodder and crop residues chopping, urea treatment, complete feedings etc.
27.	Dissemination of seed treatment and biological control techniques.
28.	Identification of major insect pest of Soybean.
29.	Efficient use of available irrigation water
30.	Reduction in labour requirement by using improved implements
31.	To enhance soil and water conservation practices
32.	Improvement in tillage practices
33.	Improvement in crop harvesting technology
34.	Care and maintenance of plant protection equipments
35.	To aware farmers about advantages of soil testing
36.	To promote natural farming

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT 1		FLD and CFLD 2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
17	234	66 ha	307

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

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

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Improved variety	3	3	2	-	-	-	-	-	-	8
INM	1	2	1	-	5	-	1	-	-	10
Natural Farming	-	-	2	-	1	-	-	-	-	3
Value Addition	-	2	-	-	-	-	-	-	-	2
Nutrition Security	-	1	-	-	1	-	-	-	-	2
Improved Implement	-	1	-	-	1	-	-	-	-	2
Precision agriculture	-	-	-	-	1	-	-	-	-	1
Storage Practices	1	-	-	-	1	-	-	-	-	2
TOTAL	5	9	5	-	10	-	1	-	-	30

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Animal Nutrition	4	-	-	-	-	-	-	4
Animal Disease management	1	-	-	-	-	-	-	1
TOTAL	5	-	-	-	-	-	-	5

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Wheat Variety Pusa Ahilya (HI-1634) for late sowing condition
Problem diagnosed	Low yield due to old variety
Farmers' Practices	Use of Navin Chandosi (HI-1418)
Details of technologies selected for assessment	T ₁ Use of Navin Chandosi (HI-1418)
	T ₂ Use of improved variety Pusa Ahilya
Source of technology	IARI, Indore (2020)
Plot size	0.25 ha.
No. of farmers	10
Total cost	15000
Critical input	Seed
(i) Performance indicators:	No. of tillers/plant, Yield (q/ha), Economics

OFT-2

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Chickpea Variety RVG-203
Problem diagnosed	yield loss due to wilt and dry root rot problem
Farmers' Practices	Use of old variety (Vishal)
Details of technologies selected for assessment	T ₁ | Use of old variety (Vishal)
	T ₂ | Improved variety RVG-203
Source of technology	RVSKVV (2013)
Plot size	0.25 ha.
No. of farmers	10
Total cost	25000
Critical input	Seed
(ii) Performance indicators:	Yield (q/ha), No. of pods/plant, Economics

OFT-3

Crop / Enterprise	Soybean
Title of on farm trial	Assessment of improved variety NRC 130 / JS 20-34 of Soybean
Problem diagnosed	yield loss due to Infestation of YMV, Anthracnose and Pod blight
Farmers' Practices	Use of old variety (Vishal)
Details of technologies selected for assessment	T1 | Use of old variety JS 9560
	T2 | Improved variety NRC 130 / JS 20-34 of soybean
Source of technology	RVSKVV (2016)
Plot size	0.25 ha.
No. of farmers	10
Total cost	20000
Critical input	Seed
Performance indicators:	Seed Index(g), crop yield (q/ha), Economics

OFT-4

Crop / Enterprise	Onion
Title of on farm trial	Assessment of Biofertilizer (Azospirillum and PSB) in onion.
Problem diagnosed	No use of bio-fertilizer , indiscriminate and excess use of inorganic fertilizer
Farmers' Practices	300-64- 32 (Urea 600 kg) ,NPK 12-32-16 (200 kg) & No use of Biofertilizer
Details of technologies selected for assessment	T1 | Application of RDF (150 – 50- 60) on STV basis
	T2 | 75 % N& P with Use of Biofertilizer (Azospirillum & PSB 5 Kg/ha)
Source of technology	DOGR, Rajgurunagar (2016)
Plot size	0.25 ha.
No. of farmers	10
Total cost	3000
Critical input	Biofertilizer
Performance indicators:	Bolting , doubling, yield kg/ha, B:C ratio

OFT-5

Crop / Enterprise	Potato
Title of on farm trial	Assessment of Nano Liquid Urea as foliar application in Potato
Problem diagnosed	Dependency on Urea as source of N ₂ Lower Nutrient use efficiency, Non (Well-timed) availability & Bulky, Environmental prospect
Farmers' Practices	100 % use of urea as basal or topdressing.
Details of technologies selected for assessment	T1 | 100 % use of urea as basal or topdressing.
	T2 | 2.5 Lit. Nano liquid urea/ ha as Topdressing at 25 DAP & 40 DAP
Source of technology	IFFCO 2021
Plot size	0.25 ha.
No. of farmers	10
Total cost	3000
Critical input	Nano Liquid Urea
(iii) Performance indicators:	Yield , Cost of Cultivation & feasibility

OFT-6

Crop / Enterprise	Pumpkin
Title of on farm trial	Assessment of yield & Economics under Natural Farming in Pumpkin
Problem diagnosed	Dependency on inorganic fertilizers & pesticide for cultivation of pumpkin
Farmers' Practices	100 % use of inorganic fertilizers and pesticide for crop management.
Details of technologies selected for assessment	T1 | 100 % use of inorganic fertilizers and pesticide for crop management.
	T2 | Use of Jeevaamrit (200 lit./acre with irrigation), brahmastra (6-8 lit./acre) & Neemastra (200 lit/acre)
Source of technology	Prakritik Kheti
Plot size	0.25 ha.
No. of farmers	10
Total cost	500
Critical input	Jeevaamrit ,brahmastra & Neemastra
(iv) Performance indicators:	Yield , Cost of Cultivation & feasibility

OFT-7

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of INM in Chickpea
Problem diagnosed	No use of biofertilizer and Low yield due to imbalance use of fertilizer
Farmers' Practices	No use of biofertilizer .
Details of technologies selected for assessment	T1 | 100% RDF + No use of bio fertilizer
	T2 | 75% RDF + Seed treatment with NPK Consortia @10 ml. per kg seed
Source of technology	JNKVV (2009)
Plot size	0.25 ha.
No. of farmers	10
Total cost	2000
Critical input	Liquid NPK consortia
(v) Performance indicators:	No. of pods/plant, Yield (kg/ha), No. of nodule/plant, Economics (net return and B:C ratio)

OFT-8

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of Liquid Biofertilizer consortia (NPK) for nutritional management in Soybean	
Problem diagnosed	No use of biofertilizer, indiscriminate and excess use of fertilizer	
Farmers' Practices	No use of biofertilizer .	
Details of technologies selected for assessment	T1	RDF + No use of biofertilizer
	T2	Application of 75% RDF on STV basis+ seed treatment with NPK consortia (10 ml/kg seed)
Source of technology	IISR (2015)	
Plot size	0.25 ha.	
No. of farmers	10	
Total cost	2000	
Critical input	Liquid NPK consortia	
Performance indicators:	No. of pods/plant, Yield (kg/ha), No. of nodule/plant, Economics (net return and B:C ratio)	

OFT-9

Crop/Enterprise	Tomato	
Title of on-farm trial	Assessment of insect proof net for raising tomato seedling	
Problem diagnosed	Seedling infestation by white fly and leaf minor in open field condition	
Farming situation	Irrigated	
Production system and thematic area	Precision Agriculture	
Farmers' practices	Raising tomato seedling under open field condition	
Details of technologies selected for assessment/refinement Treatments	T1 : Seedling raising under open field condition	
	T2 : Use of insect proof net structure for raising tomato seedling	
Source of technology	CIAE Bhopal (PFDC)	
Plot size	5 sq. m.	
No. of farmers	10	
Critical input	Low tunnel structure material (Insect proof net, sticks/bamboo, Thread, clips)	
Cost of input	Rs. 5000/-	
Total cost	Rs. 5500/-	
Performance indicators:	Infected seedling (no/sq.m.), Mortality, growth of sapling, Economics (B:C ratio)	

OFT-10

Crop/Enterprise	Soybean
Title of on-farm trial	Assessment of Power harrow for field preparation in soybean
Problem diagnosed	Undulated field by using MB plough, and yield reduction due to compact sub soil layer.
Farming situation	Rainfed
Production system and thematic area	Improved implement
Farmers' practices	Use of cultivator / normal MB plough
Details of technologies selected for assessment/refinement Treatments	T1 : FP (Use of cultivator / normal MB plough) T2 : Use of Power harrow for field preparation
Source of technology	CIAE, Bhopal
Plot Size	0.25 ha
No. of farmers	10
Critical input	Power harrow on hiring basis
Cost of input	Rs. 7500/-
Total cost	Rs. 8000/-
Performance indicators:	Weed infestation (no/sq.m.), Field capacity (ha/hr), Yield (kg/ha) and Economics (B:C ratio)

OFT-11

Crop/Enterprise	Garlic
Title of on-farm trial	Assessment of Micro Sprinkler Irrigation System for Garlic
Problem diagnosed	Uneven moisture distribution and use of excess irrigation water adversely affect the yield and germination of garlic.
Farming situation	Irrigated
Production system and thematic area	Improved Irrigation method
Farmers' practices	Use of traditional flood irrigation system for irrigation of garlic
Details of technologies selected for assessment/refinement Treatments	T1 : Use of flood Irrigation System T2 : Use of Micro Sprinkler Irrigation System
Source of technology	ICAR- Directorate of Onion and Garlic Research, Rajgurunagar, Maharashtra
Plot Size	0.25 ha
No. of farmers	10
Critical input	KVK: Pressure measuring device, filter elements etc. Farmer: Sprinkler Irrigation System
Cost of input	Rs. 10000/-
Total cost	Rs. 12000/-
Performance indicators	Soil moisture (%), Yield (kg/ha.), water saving (%), water productivity (kg/m ³), Economics (B:C ratio)

OFT -12

1	Enterprise	Dairy
2	Title of on-farm trial	Assessment of multi enzymes in daily diets of cow to improve digestibility
3	Problem diagnosed	Poor digestibility due to deficiency of enzymes
4	Farming situation	-
5	Production system and thematic area	-
6	Farmers' practices	No supplementation of multi enzymes in diet of animals
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : No supplementation of multi enzymes in diet of animals : T ₂ : Use of multi enzymes powder 3-5 g/day in daily diets
8	Source of technology	IVRI
9	No. of animals	10
10	No. of farmers	10
11	Critical input	Trace minerals Powder
12	Cost of input	Rs. 5000/-
13	Total cost	Rs. 6200/-
14	Performance indicators Observation to be recorded	estrus onset rate, conception rate

OFT -13

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

Information about Extension OFT:

Title	Study on assessment of adoption of Durum wheat varieties by the farmers of the District
Season & Year	2022
Problem identified	No use of durum wheat in chapati making and low price in comparison to chandousi type wheat varieties
Thematic Area	Impact assessment
Farming situation	-
Name of Technology Intervention under study	To know the area, production and productivity of popular durum wheat varieties; To determine the change in income of farmers due to adoption of durum wheat varieties.
Farmers Practice	-
No. of replication (Farmers)	80

Results / findings

Performance indicators/ parameters	Unit/ details
Age, education, extension contact, use of mass media, knowledge level of production technology, adoption level of production technology, change in income, problem in adoption and feedback	-

Information about Home Science OFT - 1:

Title of on-farm trial:	Assessment of soya flour (variety NRC 142)
Year/Season:	2023
Problem diagnosis:	Problem in consumption of soya flour due to presence of trypsin inhibitor
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	7
No. of farmers/farm women involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No value addition in soybean
T2 –Recommended Practice-	Value addition of soybean through making soya flour from NRC 142 variety (Trypsin inhibitor free variety, easy to make soya flour)
Source of technology:	IISR 2017
Characteristics of technology:	Trypsin inhibitor free variety, easy to make soya flour
Name of Crop/Enterprises:	Home Sc.
Farming situation:	-
Date of sowing:	-

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

Information about Home Science OFT - 2:

Title of on-farm trial:	Assessment of soybean variety Karune as vegetable
Year/Season:	2023
Problem diagnosis:	No use of soybean as vegetable
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	7
No. of farmers/farm women involved	7
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of soybean in diet as vegetable
T2 –Recommended Practice-	Use of soybean variety Karune as vegetable
Source of technology:	UAS Bengaluru
Characteristics of technology:	Use of soybean variety Karune as vegetable
Name of Crop/Enterprises:	Home Sc.
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT - 3:

Title of on-farm trial:	Assessment of value addition of pearl millet (Bajra)
Year/Season:	2023
Problem diagnosis:	No use of Bajra in daily diet
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	7
No. of farmers/farm women involved	7
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	No use of Bajra in daily diet
T2 –Recommended Practice-	Use of Bajra flour for nutritional benefits

Source of technology:	IIMR Hyderabad
Characteristics of technology:	Use of Bajra flour for nutritional benefits
Name of Crop/Enterprises:	Home Sc.
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	Improved variety	JS 2029	Seed	Kharif 2023	5	13	Yield (q/ha)
2	Wheat	Improved variety	HI 8759	Seed	Rabi 2023-24	5	13	Yield (q/ha)
3	Chickpea	Natural Farming	Use of Neemastra (200 liter/acre) and Brahmastra (6-8 liter/acre)	Neemastra and Brahmastra	Rabi 2023-24	2.5	10	Pest infestation %
4	Pearl millet (Bajra)	Crop diversification	Pearl millet (Bajra) variety JBV-4	Seed	Kharif 2023	1	5	Yield (q/ha)
5	Garlic	INM	1 litre Liquid biofertilizer consortia (PSB+Azotobactor+ Potassium Mobilizing Bacteria) + 75 % NPK (RDF 125-60-60 NPK)	Biofertilizer	Rabi 2023-24	2.5	10	Yield (q/ha), Bulb size (cm),
6.	Onion	INM	75 % N & P with Use of Biofertilizer (Azospirillum & PSB 5 Kg/ha each) RDF : 125-60-80	Biofertilizer	Rabi 2023-24	2.5	10	Yield (q/ha), Bulb size (cm),
7.	Marigold	INM	Amendment of deficiency as per soil test, and use of Micronutrient (Zn, Fe, Mn) as foliar application	Micro nutrient	Kharif 2023	2.5	10	Yield (q/ha)
8.	Onion	INM	Application of sulphur on Soil test basis for optimum production and storage of onion	Bentonite Sulphur	Rabi 2023-24	2.5	10	Yield (q/ha), Bulb size (cm),

9.	Wheat	INM	Balance Use of fertilizer on the given STCR basis	NPK	Rabi 2023-24	5	13	Yield (q/ha)
10	Soybean	INM	Use of Biofertilizer (Mycorrhiza)	Biofertilizer (Mycorrhiza)	Kharif 2023	5	13	Yield (q/ha)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	Sept.-23, Feb-24.	200
2	Farmers Training	24	June 23 to Feb. 24	480
3	Media coverage	-	-	-
4	Training for extension functionaries	2	Sept.-23, Feb-24.	40

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Reversible Plough	Soybean	Summer, 2023	10	2.5	Reversible Plough on hiring basis	Weed infestation (no/sq.m.), Yield (kg/ha) and Economics	Field capacity (ha/hr)	Field capacity (ha/hr)
Raised bed Planter	Soybean	Kharif, 2023	10	2.5	Raised bed Planter on hiring basis	Soil moisture content (%), Plant Population (no./sq.m), Economics (B:C ratio)	Field capacity (ha/hr)	Field capacity (ha/hr)
Raised bed Planter	Chickpea	Rabi 2023-24	10	2.5	Raised bed Planter on hiring basis	Soil moisture content (%), Plant Population (no./sq.m), Economics (B:C ratio)	Field capacity (ha/hr)	Field capacity (ha/hr)
Reaper cum binder	Wheat	Rabi 2023-24	10	2.5	Reaper cum binder on hiring basis	Labour Saving (%), cost saving (Rs/ha), Straw saving (%) and Field capacity (ha/hr)	Field capacity (ha/hr)	Field capacity (ha/hr)

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Dairy	Buffalo	10	10	Ca, P and Vit. D supplement in liquid form	Incidence of milk fever, Economics	Milk Yield (lit/day)	Milk Yield (lit/day)
Dairy	Buffalo	10	10	bypass fat (rumen protected fat)	Increase in milk fat %, Economics	Milk Yield (lit/day)	Milk Yield (lit/day)
Dairy	Buffalo	10	10	Use of Rumen specific live yeast culture – (<i>Saccharomyces cerevisiae</i>) in Buffalo	Incidence of acidosis (%)	Milk Yield (lit/day)	Milk Yield (lit/day)

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

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Nutritional Garden	Vegetable & Fruit	10	0.25 ha	Seed	Nutrient intake	BMI, per capita consumption	BMI, per capita consumption
Storage practices	Maize	10	10	Pro super bag	Germination (%)	Pest infestation (%)	Pest infestation (%)
Nutritional security	Drum stick	10	10	Drum stick crackers	Nutrient intake, sensory evaluation, BMI, per capita consumption	hemoglobin level	hemoglobin level

Cluster Demonstration of Oilseed and Pulses under NFSM (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 variety	JS 2098	Seed, Seed treatment	Kharif 2023	20	50	Yield (q/ha)
1	Chickpea	Improved variety	RVG 202	Seed, Seed treatment	Rabi 2023-24	20	50	Yield (q/ha)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	Sept.-23, Feb-24.	200
2	Farmers Training	24	June 23 to Feb. 24	480
3	Media coverage	-	-	-
4	Training for extension	2	Sept.-23, Feb-24.	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	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Integrated Crop Management	2	2	40	0	40	0	0	0	40
Total	2	2	40	0	40	0	0	0	40
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
IPM	1	1	20	-	20	-	-	-	20
Total	1	1	20	-	20	-	-	-	20
b) Fruits									
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
c) Ornamental Plants									
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops									
Total	-	-	-	-	-	-	-	-	-
e) Tuber crops									
Total	-	-	-	-	-	-	-	-	-
f) Spices									
Production and Management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants									
Production and management technology	-	-	-	-	-	-	-	-	-
Total	1	1	20	-	20	-	-	-	20
Grand total (Horticulture)	2	2	40	-	40	-	-	-	40
III Soil Health and Fertility Management									
Soil fertility management	1	1	20	-	20	-	-	-	20
Soil and Water Conservation	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient	1	1	20	-	20	-	-	-	20

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site									
Vermi-compost production	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics									
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
XI Agro-forestry									
Total	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)									
Grand Total	8	8	120	40	160	0	0	0	160
(B) RURAL YOUTH									
Mushroom Production	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-
Natural Farming	1	2	20	-	20	-	-	-	20
Dairy Management	1	6	20	-	20	-	-	-	20
Soil Testing	1	6	20	-	20	-	-	-	20
Irrigation and water management	1	1	20	-	20	-	-	-	20
Designing and development for high nutrient efficiency diet	1	1	-	20	20	-	-	-	20
Ornamental Plants	1	1	20	20	20	-	-	-	20
Nursery Raising	2	49	40	-	40	-	-	-	40
TOTAL	8	66	140	20	160	0	0	0	160
(C) Extension Personnel									
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	2	2	40	-	40	-	-	-	40

TOTAL	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
(C) Extension Personnel	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
Grand Total	58	58	800	360	1160	0	0	0	1160

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Oct	PF	Sowing technique and seed treatment in chickpea	1	20	-	20	-	-	-	20
Nov	PF	Sowing tech. & seed treatment of wheat	1	20	-	20	-	-	-	20
Horticulture										
Apr	PF	Fruit fly management in cucurbits	1	20	-	20	-	-	-	20
Livestock production										
Home Science										
Mar.	PF	Importance of mothers milk for infants	1	20	-	20	-	-	-	20
Dec.	PF	Awareness about cleaning and hygiene	1	20	-	20	-	-	-	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
May	PF	Soil Health Management and method of soil sampling	1	20	-	20	-	-	-	20
July	PF	Use of micronutrient in soybean	1	20	-	20	-	-	-	20
Total	7		7	140	-	140	-	-	-	140

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	PF	Mitigation of moisture stress in soybean	1	20	-	20	-	-	-	20
Mar	PF	Improved technology of summer moong	1	20	-	20	-	-	-	20
July	PF	Control of stem and white fly in soybean	1	20	-	20	-	-	-	20
Nov	PF	Management of fall army in wheat	1	20	-	20	-	-	-	20
Jan	PF	Management of pod borer in chickpea	1	20	-	20	-	-	-	20
June	PF	Use of Jeevamrut in soybean	1	20	-	20	-	-	-	20
July	PF	Use of Agnyastra in Soybean	1	20	-	20	-	-	-	20
Nov	PF	Use of Nimastra and Brahmastra in Chickpea	1	20	-	20	-	-	-	20
June	PF	Weed management in oilseed	1	20	-	20	-	-	-	20
Dec	PF	Weed Management in Wheat	1	20	-	20	-	-	-	20
Horticulture										
Apr	PF	Insect management in sponge guard	1	20	-	20	-	-	-	20
Aug	PF	INM in marigold	1	20	-	20	-	-	-	20
July	PF	Fruit Fly management in cucumber	1	20	-	20	-	-	-	20
July	PF	Fruit plantation technique	1	20	-	20	-	-	-	20
Oct	PF	INM in Garlic	1	20	-	20	-	-	-	20
Nov	PF	Micro nutrient application in Garlic	1	20	-	20	-	-	-	20
Mar	PF	Growing summer cucumber	1	20	-	20	-	-	-	20
Dec	PF	INM in onion	1	20	-	20	-	-	-	20
Feb	PF	Agro Practice for enhancing storage in onion	1	20	-	20	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Livestock production										
Feb	PF	Scientific feeding of goats	1	20	-	20	-	-	-	20
June	PF	Green fodder production round the year	1	20	-	20	-	-	-	20
June	PF	Prevention and control of contagious diseases	1	20	-	20	-	-	-	20
Feb	PF	Management of mastitis in dairy animals	1	20	-	20	-	-	-	20
Apr	PF	Management of dairy animals in summer.	1	20	-	20	-	-	-	20
Mar	PF	Improved animal husbandry practices.	1	20	-	20	-	-	-	20
May	PF	Importance of deworming in dairy animal.	1	20	-	20	-	-	-	20
May	PF	Azolla Cultivation for Dairy	1	20	-	20	-	-	-	20
Oct	PF	Care of Dairy Animal in Winter season	1	20	-	20	-	-	-	20
Aug	PF	Importance of vit. min mixture	1	20	-	20	-	-	-	20
Jan	PF	Prevention and control of Lumpy skin disease	1	20	-	20	-	-	-	20
Home Science										
Jan	PF	Role of moringa Oleifera for health benefit	1	20	-	20	-	-	-	20
Feb	PF	Value addition of soybean by making milk, soya nut	1	20	-	20	-	-	-	20
Mar	PF	Value addition of soybean (Soya flour)	1	20	-	20	-	-	-	20
Apr	PF	Women entrepreneurship development through SHG	1	20	-	20	-	-	-	20
May	PF	Storage of pulses through pro super	1	20	-	20	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		bag								
June	PF	Nutritional garden for nutritional security	1	20	-	20	-	-	-	20
July	PF	Value addition of Ragi and Bajra	1	20	-	20	-	-	-	20
Aug.	PF	creating awareness among farm women about Nutri Thali	1	20	-	20	-	-	-	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Feb	PF	INM in wheat	1	20	-	20	-	-	-	20
Jan	PF	Fertilizer management in late sown wheat	1	20	-	20	-	-	-	20
May	PF	Scientific method of soil sampling	1	20	-	20	-	-	-	20
June	PF	Use of biofertilizer in soybean	1	20	-	20	-	-	-	20
July	PF	Identification of nutrient deficiency symptoms in soybean	1	20	-	20	-	-	-	20
June	PF	Balance Use of fertilizer in Soybean	1	20	-	20	-	-	-	20
Oct	PF	Use of liquid bio-fertilizer in chickpea	1	20	-	20	-	-	-	20
Nov	PF	Use of STCR equation for balance use of fertilizeer	1	20	-	20	-	-	-	20
Oct	PF	Use of biofertilizer (NPK Consortia) in chickpea	1	20	-	20	-	-	-	20
Dec	PF	Identification of nutrient deficiency symptoms in Wheat	1	20	-	20	-	-	-	20
Ag. Engg.										
June	PF	Care and maintenance of farm machinery	1	20	-	20	-	-	-	20
July	PF	Care and maintenance of tractor	1	20	-	20	-	-	-	20
April	PF	Use of Reversible plough and power harrow for deep summer	1	20	-	20	-	-	-	20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		ploughing								
Feb	PF	Improved Harvesting machineries.	1	20	-	20	-	-	-	20
April	PF	Crop residue management through farm machinery	1	20	-	20	-	-	-	20
Aug.	PF	Advance agriculture equipment used for weeding operation	1	20	-	20	-	-	-	20
May	PF	Broad bed and furrow sowing method in soybean for moisture conservation	1	20	-	20	-	-	-	20
May	PF	Importance of raised bed sowing method in soybean	1	20	-	20	-	-	-	20
Oct	PF	Importance of raised bed sowing method in chickpea	1	20	-	20	-	-	-	20
Nov.	PF	Role of Micro irrigation system for maximizing water productivity and crop yield	1	20	-	20	-	-	-	20
June	PF	Advance technology used for nursery raising	1	20	-	20	-	-	-	20
Total	59		59	1180	0	1180	0	0	0	1180

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Mar	RY	Natural Farming	2	20	-	20	-	-	-	20
Horticulture										
Oct	RY	Nursery Raising	4	20	-	20	-	-	-	20
Feb	RY	Vegetable grower	45	20	-	20	-	-	-	20
Sept	RY	Flower cultivation	1	20	-	20	-	-	-	20
Livestock production										
July	RY	Advances in Dairy farming practices	6	20	-	20	-	-	-	20
Home Science										
April	RY	Nutritional benefits of oat fortified biscuits	1	-	20	20	-	-	-	20
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
April	RY	Soil Testing	6	20	-	20	-	-	-	20
Ag. Engg.										
Dec.	RY	installation and maintenance of micro irrigation system	1	20	-	20	-	-	-	20
Total	8		66	140	20	160				160

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	8	120	40	160	8	0	8	128	40	168
Kisan Mela	2	200	100	300	20	15	35	220	115	335
Kisan Ghosthi	2	120	80	200	10	5	15	130	85	215
Exhibition	5	125	25	150	5	0	5	130	25	155
Film Show	18	180	180	360	18	0	18	198	180	378
Method Demonstrations	8	120	40	160	8	0	8	128	40	168
Farmers Seminar	0	0	0	0	0	0	0	0	0	0
Workshop	0	0	0	0	0	0	0	0	0	0
Group meetings	4	100	20	120	2	0	2	102	20	122
Lectures delivered as resource persons	12	300	60	360	20	5	25	320	65	385
Newspaper coverage	6	0	0	0	0	0	0	0	0	0
Radio talks	6	0	0	0	0	0	0	0	0	0
TV talks	6	0	0	0	0	0	0	0	0	0
Popular articles	6	0	0	0	0	0	0	0	0	0
Extension Literature	6	0	0	0	0	0	0	0	0	0
Advisory Services	0	0	0	0	0	0	0	0	0	0
Scientific visit to farmers field	36	300	20	320	20	0	20	320	20	340
Farmers visit to KVK	36	720	180	900	36	4	40	756	184	940
Diagnostic visits	4	40	20	60	0	0	0	40	20	60
Exposure visits	0	0	0	0	0	0	0	0	0	0
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0
Soil health Camp	2	100	0	100	4	0	4	104	0	104
Animal Health Camp	4	60	20	80	4	0	4	64	20	84
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	12	0	300	300	0	0	0	0	300	300
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	4	60	40	100	4	0	4	64	40	104
Others (Webcast etc.)	4	100	20	120	4	2	6	104	22	126
Total	191	2645	1145	3790	163	31	194	2808	1176	3984

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
Cereals	Wheat	N. Chandosi	40
Cereals	Wheat	Tejas	60
Cereals	Wheat	Vani	30
Cereals	Wheat	Ahilya	30
Oilseed	Soybean	NRC-138	80
Oilseed	Soybean	JS 2034	20
Pulse	Chickpea	RVG-202	15
Pulse	Chickpea	Vikram Phule	15
Pulse	Chickpea	PKV-4	10
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

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

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost	<i>Eisenia fetida</i>	1 unit	12000
2	NADEP		2 unit	12000
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
2007	Quarterly	250

Details of Electronic Media to be Produced

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

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

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
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	Sejgadh	Mhow	55 KM
2	Semda	Depalpur	67 KM
3	Shahpura	Depalpur	48 KM
4	Kankariya Bordia	Sanwer	31 KM

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:2005

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

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

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

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

Give details of programmers implemented under National Horticultural Mission

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

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
N.A.	N.A.	N.A.

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 585 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Wheat	Rabi	RVW 4106, HI 1418, HI 1605, Pusa 111, HI 1544, HI-1633, HI-1634, HI-1636, HI 1650, HI 1655, JW 3288, Pusa Anmol, Tejas, Poshan, HI-8777	aestivum – 11 durum – 04	225 sq.m
Chickpea	Rabi	JGK 3, RVGK 101, RVGK 102, MNK-1, RVG-151 JAKI 9218, JG 63, JG 130, JG 6, JG 16, Phule Vikram, RVG-201, RVG-202, RVG-203	Kabuli – 05 Desi – 09	210 sq.m.
Oilseed	Kharif	JS-2034, JS-2069, NRC-130, NRC-138, NRC-142, NRC-127, NRC-128, JS 9560, JS 2001-4, JS 1135	Soybean	150 sq.m.

Details of Demonstration Unit at KVK

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

ANNUAL ACTION PLAN 2023






KVK, Raisen (M.P.)






Year of sanction: 2004

1.1 Name of the Programme Coordinator with phone & mobile No

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

1.2 Staff Position on (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. Swapnil Dubey	Sr. Scientist & Head	Agronomy	37400-67000 G.P. 9000 (161300)	1 st July, 2014	1 st July, 2014	9826499725	swapnildubey45@yahoo.com	
2	Subject Matter Specialist	Mr. Ranjeet Singh Raghav	Scientist	Soil Science	15600-39100 G.P. 5400 (71100)	1 st July, 2014	1 st July, 2014	8103078603	raghavsinghranjeet@yahoo.co.in	
3	Subject Matter Specialist	Ms. Lakshmi Chakravarti	Scientist	Home Science	15600-39100 G.P. 5400 (71100)	1 st July, 2014	1 st July, 2014	9425372921	lakshmi.c124@gmail.com	
4	Subject Matter Specialist	Dr. Pradip Kumar Dwivedi	Scientist	Plant Protection	15600-39100 G.P. 5400 (69000)	1 st April, 2015	1 st April, 2015	7748084999	dwivedi_pradip@rediffmail.com	
5	Subject Matter Specialist	Dr. Mukul Kumar	Scientist	Horticulture	15600-39100 G.P. 5400 (67000)	3 rd Feb, 2016	3 rd Feb, 2016	9826169890	mukul0274@yahoo.co.in	
6	Subject Matter Specialist	Mr. Alok Kumar Suryawanshi	Scientist	Agriculture Extension	15600-39100 G.P. 5400 (59500)	5 th Sep., 2019	5 th Sep., 2019	9424947778	alokag88@gmail.com	
7	Subject Matter Specialist	Mr. Brahma Nand Shukla	Scientist	Fisheries	15600-39100 G.P. 5400 (59500)	12 th Sep., 2019	12 th Sep., 2019	9452302530	bns.nduat@gmail.com	

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
8	Programme Assistant	Dr. Anshuman Gupta	Programme Assistant	Veterinary Science	9300-34800 G.P. 4200 (68000)	25 th March, 2004	25 th March, 2004	9826047644	anshu753936@gmail.com	
9	Computer Programmer/ Programme Assistant	Mr Pankaj Bhargava	Programme Assistant	Computer Science	9300-34800 G.P. 4200 (68000)	8 th April, 2004	8 th April, 2004	9893009725	pankaj.kvk@gmail.com	
10	Farm Manager	Mr. Sunil Kethwas	Farm Manager	Farm Manager	9300-34800 G.P. 4200 (55200)	10 th Oct, 2007	10 th Oct, 2007	9893446148	sunil_kethwas@rediffmail.com	
11	Assistant	Mr. Rajkumar Makode	Assistant	Accounts	9300-34800 G.P. 4200 (50500)	1 st July, 2011	1 st July, 2011	9893710784	rajkumar.makode@gmail.com	
12	Jr. Stenographer / Comp. Operator	Mrs. Aruna Somkunwar	Stenographer	Stenographer	5200-20200 G.P. 2400 (46100)	22 nd March, 2004	22 nd March, 2004	9009069186	arus1975@gmail.com	
13	Driver	Mr. Ubed Khan	Driver	Jeep Driver	5200-20200 G.P. 2000 (36100)	5 th February, 2005	5 th February, 2005	-	-	
14	Driver	Mr. Madhav Singh	Driver	Tractor Driver	5200-20200 G.P. 2000 (22400)	1 st July, 2021	1 st July, 2021	-	-	
15	Supporting staff	Mr. Sanjay Chaudhary	Supporting staff	Supporting Staff	5200-20200 G.P. 1800 (29700)	7 th April, 2006	7 th April, 2006	-	-	
16	Supporting staff	Mr. Piyush Sahu	Supporting staff	Supporting Staff	5200-20200 G.P. 1800 (19100)	1 st July, 2020	1 st July, 2020	-	-	

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

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

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2007	543	-	-	-	-
2	Farmers Hostel	ICAR	2007	307	-	-	-	-
3	Staff Quarters (6)	ICAR	2007	400	-	-	-	-
4	Demonstration Units (2)	ICAR	2007	160	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	ICAR	2007	65	-	-	-	-

B) Vehicles

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

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	July, 2023
2	December, 2023

2. DETAILS OF DISTRICT

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

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

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

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

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (Sanchi, Begamganj & Silwani)

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> Shallow Black Soil, pH is normal, High K Soil fertility good. Major crop zone Paddy, Wheat & Chickpea. Farmers are aware of latest agriculture practices. 	<ul style="list-style-type: none"> Low Available Nitrogen in soil Limited irrigation facility Infestation of pest and disease low available Green fodder for animals Unstable market prices for vegetables. Low milk production due to indigenous breed of cow Labor problem. Un mechanized farming 	<ul style="list-style-type: none"> Natural farming opportunity Water and Soil conservation possible resulting in increase crop production Shift to climate resilient agriculture Additional and assured source of income from Animals Increased returns from Dairy Improved use of IPM, INM Marketing opportunity for Industries. 	<ul style="list-style-type: none"> Uneven climatic condition Water table going down in Rabi/Zaid High cost of crop production/Cultivation New insect, pest attacking to crops Low, Untimely rainfall-crop failure Require good management practices Capital Investment is high

AES-2 (Gairatganj)

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> Soil pH, EC is normal, High Available K Soybean, Wheat, Chickpea, Paddy are major crops Good soil for Horticultural crops Use of High Yielding Varieties of vegetables Improved Cultivation Practices 	<ul style="list-style-type: none"> Low water holding capacity Low OC, Available Nitrogen in soil Low annual Rainfall Limited irrigation facility Dry spell in Kharif session Infestation of Pest and disease low available Green fodder for animals Unstable market prices for vegetables. Low milk production due to indigenous breed of cow Labor problem. Un mechanized farming 	<ul style="list-style-type: none"> Natural farming Horticultural crops are possible If irrigated then yield will increase Additional and assured source of income from Animals Increased returns from Dairy Improved use of IPM, INM Marketing opportunity for Industries. 	<ul style="list-style-type: none"> Uneven climatic condition Water table going down in Rabi/Zaid High cost of crop production/Cultivation New insect, pest attacking to crops Low, Untimely rainfall-crop failure Require good management practices Capital Investment is high

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

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> High fertile soil, pH normal, High K Major crop zone Soybean, Paddy, Wheat/Chickpea rotation 	<ul style="list-style-type: none"> Water logging problem in Rain Low available Nitrogen , Phosphorus in soil Limited irrigation facilities in rabi and zaid low available Green fodder for animals Unstable market prices for vegetables. Low milk production due to indigenous breed of cow Labor problem. Un mechanized farming 	<ul style="list-style-type: none"> Potential in horticulture crops Yield can be improved if irrigation facilities are improved Area under Natural farming can be increased Millets cultivation can promoted Integrated farming Additional and assured source of income from Animals Increased returns from Dairy Improved use of IPM, INM Marketing opportunity for Industries. 	<ul style="list-style-type: none"> Uneven climatic condition Water table going down in Rabi/Zaid High cost of crop production/Cultivation New insect, pest attacking to crops Low, Untimely rainfall-crop failure Require good management practices Capital Investment is high

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

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> High fertile soil, pH normal, High K Irrigation facilities available in maximum area Crop cultivation throughout year in large area Scented rice/paddy cultivation condition suitable in the area 	<ul style="list-style-type: none"> Water logging problem in Kharif High uptake of Nutrient from soil by mono cropping pattern High consumption of fertilizers High use of insecticide & pesticides low available Green fodder for animals Unstable market prices for vegetables. Low milk production due to indigenous breed of cow Labor problem. Un mechanized farming 	<ul style="list-style-type: none"> More area under scented rice can be increased in sustainable mode Decrease in pesticide use to decrease residual effects for export quality of Rice Potential in Horticulture crops. Possibility of natural and Organic farming Fish farming Additional and assured source of income from Animals Increased returns from Dairy Improved use of IPM, INM Marketing opportunity for Industries. 	<ul style="list-style-type: none"> Uneven climatic condition Water table going down in Rabi/Zaid High cost of crop production/Cultivation New insect, pest attacking to crops Ground water polluted due to excess use of pesticides Decrease in Soil health condition Low, Untimely rainfall-crop failure Require good management practices Capital Investment is high

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	631.748
Forest	116.674
Waste Land	41.069
Other than cultivated area	-
Cultivable waste and alkaline land	3.560
Pastures	26.366
Bushes	0.109
Current Fallow	-
Other Fallow	-
Agricultural Land	430.004

Area Sown	790.263
Kharif	355.966
Rabi	434.297
Zaid	-
Cropping Intensity	183.78

Irrigated Area with Different Sources:

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

Soil types

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

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	2,50,000	10500000	42.00
2	Soybean	40,000	412000	10.30
3	Pigeonpea	45,000	810000	18.00
4	Blackgram	34,000	210800	6.20
5	Wheat	2,85,000	11400000	40.00
6	Chickpea	1,25,000	2125000	17.00
7	Lentil	20,000	220000	11.00

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	3.15	24.5	2.5
Feb, 22	2.25	28.79	3.65
Mar, 22	0.6	40.93	7.97
Apr, 22	0.4	42.91	16.94
May, 22	6.2	44.32	20.94
Jun, 22	51.8	43.3	22.01
July, 2022	672.6	34.05	21.6
Aug., 2022	36.8	33.6	21.95
Sept., 2022	356.4	33.57	20.95
Oct. 2022	222.2	33.29	11.47
Nov. 2022	1.6	33.41	7.04
Dec. 2022	20.3	28.47	6.97

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous ('000)</i>	618	117 MT.	..... kg
Buffalo ('000)	137	49 MT.	..... kg
Sheep			
<i>Crossbred/ Indigenous</i>		..... MT wool	..... kg
Goats		..... MT	..... kg
Pigs Crossbred/ Indigenous		---	---
Rabbits			
Poultry			
Hens		..... Lakh eggs	..... eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	13284.08(ha)	3542.08 Q/ month	3.20 Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1		Gairatganj	Baniyakhedi	Rice, Wheat, Chickpea	Low yield of crops, Excessive use of fertilizers, No use of IPM	Crop diversification, Improved variety, Integrated Crop Management practices, IPM, INM.
2		Gairatganj	Sandook	Rice, Wheat, Chickpea	Low yield of crops, Excessive use of fertilizers, No use of IPM	Crop diversification, Improved variety, Integrated Crop Management practices, IPM, INM.

Priority / Thrust areas

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

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
27	180	52.25	215

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	1800	205	2800

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

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions						
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.	
1	Varietal Assessment	Soybean	Low yield of Soybean due to heavy attack of insect-pest and diseases.	Assessment of improved variety of Soybean NRC-138 under Soybean – Wheat cropping system.	-	-	-	-	-	Seed
2	Varietal Assessment	Rice	Low yield of Rice due to use of old variety.	Assessment of improved variety of Rice JR-206 under Rice –Wheat cropping system	-	-	-	-	-	Seed
3	Varietal Assessment	Wheat	Low yield of Wheat due to use of old variety	Assessment of wheat variety GW-499 for late sown condition under Rice-Wheat cropping system.	-	-	-	-	-	Seed
4	Varietal Assessment	Chickpea	Low yield of Chickpea due to use of old variety	Assessment of Chickpea variety RVG-202 for late sown condition under Rice-Chickpea cropping system.	-	-	-	-	-	Seed
5	Nutrient Management	Rice	Low availability of phosphorus due to fixation in soil.	Assessment of integration of PSB in Rice in Rice-Wheat cropping system.	-	-	-	-	-	PSB
6	Nutrient Management	Rice	Low yield due to imbalance use of fertilizers.	Assessment of VAM in Rice crop.	-	-	-	-	-	VAM
7	Nutrient Management	Wheat	Low yield due to imbalance use of fertilizers.	Assessment of VAM in Wheat crop.	-	-	-	-	-	VAM
8	Nutrient Management	Chickpea	Low yield of chickpea due to imbalance use of Fertilizer.	Assessment of NANO DAP in Chickpea crop	-	-	-	-	-	NANO DAP
9	IPM	Maize	Low yield due to heavy infestation of fall army worm.	Assessment of IPM module for the management of fall army worm in Maize crop.	-	-	-	-	-	Pesticide
10	IPM	Soybean	Low yield of Soybean due to incidence of stem fly.	Assessment of IPM module for the management of Stem fly in Soybean crop	-	-	-	-	-	Pesticide
11	IPM	Rice	Low yield of Rice due to incidence of Brown Plant Hopper	Assessment of pesticide for the management of Brown Plant Hopper in Rice.	-	-	-	-	-	Pesticide
12	IDM	Tomato	Low yield of tomato due to heavy infection of Early Blight disease.	Assessment of fungicide for the management of Early Blight in tomato.	-	-	-	-	-	Fungicide

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.
13	Varietal Assessment	Chilli	Low yield of chilli due to leaf curl virus	Assessment for CHLCV resistant Hybrid Arka Tejasvi (H-41) of Chilli.	-	-	-	-	Seedling
14	Varietal Assessment	Ashwagandha	Low yield of Ashwagandha due to use of old variety	Assessment of high yielding variety (Sim pushti) of Ashwagandha.	-	-	-	-	Seed
15	Varietal Assessment	Garlic	Low yield of Garlic due to use of old variety	Assessment of Improved Variety of Garlic (G-323) with integrated crop management.	-	-	-	-	Seed
16	Varietal Assessment	Onion	Low yield of Onion due to use of old variety	Assessment for Improved Variety of Onion (Bhima Red).	-	-	-	-	Seed
17	HOV_VE	Cauliflower	Low income due to non-availability for early variety of Cauliflower.	Assessment for early variety of Arka Vimal Cauliflower.	-	-	-	-	Seed
18	Production and Management	Grass carps	Ponds infested with aquatic weed.	Assessment of biological control of aquatic weeds by grass carps.	-	-	-	-	Fry
19	Production and Management	Lime	Low production due to low pH.	Assessment to use lime in fish culture pond.	-	-	-	-	Lime
20	Production and Management	Fish	Poor growth and low fish production	Assessment of Growth performance of multivitamin and mineral in Pangasius fish.	-	-	-	-	Fry
21	Production and Management	Fish	Poor fish growth and Low fish production.	Assessment of Growth Promoter on IMC and EC.	-	-	-	-	Fry
22	AS	Goats	Low milk production in goats due to nitrogen & other mineral deficiency	Assessment of UMMB in goats.	-	-	-	-	UMMB
23	AS	Dairy Animals	Low milk production due to calcium deficiency	Assessment of chelated calcium in dairy animals.	-	-	-	-	Chelated calcium
24	Water conservation technology	-	Lack of knowledge and benefits of drip irrigation in intensive vegetable production.	Assessment of awareness and adoption of Drip irrigation method in vegetable crop for income generation.	-	-	-	-	-
25	Information communication technology	-	Lack of knowledge and good farming practices.	Assessment of whatsapp in dissemination of integrated disease management technology of Chickpea.	-	-	-	-	-
26	WOE	Biofortified Paddy	Low nutrition intake through	Assessment of Biofortified Paddy Variety	-	-	-	-	Seed

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
			regular consumed Rice in daily diet, Farm women Suffers Zinc & Protein Deficiency	DRR 48 and DRR 49 for Nutritional Security of farm women.					
27	WOE	Biofortified Sweet Potato	Lack of Pro vitamin –A in farm women Diet. Farm women suffering vitamin deficiencies.	Assessment of Biofortified Sweet potato Variety BHU Sona for Nutritional Security of farm women.	-	-	-	-	Seed
28	WOE	Biofortified Wheat	Low Nutritional status of farm women due to daily Consumption of less protein , Iron and zinc Rich Wheat.	Assessment of Biofortified Wheat variety DBW 187 Karan Vandana (DURUM) Variety for Nutritional Security of farm women.	-	-	-	-	Seed
29	WOE	Biofortified Lentil	Low Nutritional status & Non availability of iron through pulses Consumption in daily diet	Assessment of Biofortified Lentil Variety Pusa Ageti masoor (Pure line variety) for Nutritional Security of farm women.	-	-	-	-	Seed
30	Weed Management	Soybean	Low yield of soybean due to heavy infestation of weed	-	Demonstration on Diclosulam 84% @ 26 gm a.i./ha. (PE) in soybean	-	-	-	Weedicide
31	Weed Management	Maize	Low yield of maize due to heavy infestation of weed	-	Demonstration on Tembotrione 115gm/acre. at 20-30 DAP in maize	-	-	-	Weedicide
32	Varietal evaluation	Wheat	Low yield of wheat due to use of old variety	-	Demonstration on wheat variety HI-1634,	-	-	-	Seed
33	Weed Management	Wheat	Low yield of wheat due to heavy infestation of weed	-	Demonstration on Post emergence weedicide Clodinophop + metsulfuron @ 400 gm/ha at 20-25 DAS.	-	-	-	Weedicide
34	INM	Rice	Low yield of rice due to imbalance use of fertilizer	-	Demonstration on Nano Urea in rice	-	-	-	Nano Urea
35	INM	Soybean	Low yield of soybean due to imbalance use of fertilizer	-	Demonstration on Rhizobium + PSB @ 10 ml/kg seed + KSB @2.5 liter/ha in soybean	-	-	-	Rhizobium, PSB, KSB
36	INM	Wheat	Low yield of wheat due to imbalance use of fertilizer	-	Demonstration on Nano Urea in wheat	-	-	-	Nano Urea
37	INM	Tomato	Low yield of	-	Demonstration on	-	-	-	Boron

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.
			tomato due to imbalance use of fertilizer		.5% Boron in tomato				
38	INM	Chickpea	Low yield of chickpea due to imbalance use of fertilizer	-	Demonstration on Rhizobium + PSB @ 10 ml/kg seed + KSB @2.5 liter/ha in chickpea	-	-	-	Rhizobium, PSB, KSB
39	HOS	Onion	Low yield of onion due to use of old variety	-	Demonstration on Bhima Super variety in onion	-	-	-	Bhima Super Seed
40	HOV	Broccoli	Low yield of broccoli due to use of old variety	-	Demonstration on Broccoli variety KTS-1	-	-	-	Seed
41	HOV	Tomato	Low yield of tomato due to use of old variety	-	Demonstration on High yielding tomato hybrid Arka Samrat	-	-	-	Seed
42	IPM	Soybean	Low yield of soybean due to heavy infestation of insect-pests	-	Demonstration of IPM module in soybean crop	-	-	-	Bird percher, pheromone trap, Chloretrani liprole 18.5 SC
43	IDM	Rice	Low yield of rice due to heavy incidence of diseases	-	Demonstration of Carbendazim @ 2 g/kg + Foliar spray of copper oxy chloride @ 3 g/l in rice	-	-	-	Carbendazim, Copper oxy chloride
44	IDM	Rice	Low yield of rice due to heavy incidence of diseases	-	Demonstration of Trichoderma viride @ 5 g/kg + Foliar spray of Propiconazole 25 EC @ 500 ml/ha in rice	-	-	-	Trichoderma viride, Propiconazole
45	IPM	Chickpea	Low yield of chickpea due to heavy infestation of insect-pests	-	Demonstration of IPM module in chickpea crop	-	-	-	Bird percher, Pheromone trap, NPV, Chloretrani liprole.
46	Nutritional Security (WOE)	Paddy	Low yield of rice due to use of old variety	-	Demonstration on Biofortified Rice Variety CR Dhan 310	-	-	-	Seed
47	Income Generation WOE 2023	Pigeon pea	Heavy losses of grain in use of traditional method of storage	-	Demonstration on Grain Pro super beg	-	-	-	Grain Pro super beg
48	Nutritional Security	Vegetable	Low yield of vegetable due to use of traditional	-	Demonstration on Roof Top garden for Nutritional Security	-	-	-	Roof Top garden

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.	
			method of flat sowing		& of Land less women in Rural area					
49	Nutritional Security	Oyster Mushroom	Low yield of oyster mushroom due to local substrate	-	Demonstration on Proper substrate (Paddy & Wheat straw) of Oyster Mushroom	-	-	-	-	Seed, Straw & Holding material

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Crop Production	2	1	1	0	0	0	0	0	0	4
Plant Protection	2	1	0	0	1	0	0	0	0	4
Horticulture	0	0	0	1	4	0	0	0	0	5
Soil Science	3	0	1	0	0	0	0	0	0	4
Home Science	2	0	1	0	0	0	0	0	1	4
TOTAL	9	2	3	1	5	0	0	0	1	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
Livestock	1	0	0	1	0	0	0	2
Fisheries	0	0	0	0	0	0	4	4
TOTAL	1	0	0	1	0	0	4	6

Details of On Farm Trial (OFT)

OFT-1 (Agronomy)

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of improved variety of Soybean NRC-138 under Soybean –Wheat cropping system.	
Problem diagnosed	Low yield of Soybean due to heavy attack of insect-pest and diseases.	
Farmers' Practices	JS-93-05	
Details of technologies selected for assessment	T ₁	JS-93-05
	T ₂	NRC-138, Maturity- 90 days, Yield: 18-20 q/ha, resistant to YMV.
Source of technology	IISR, Indore (2021).	
Plot size	0.4 ha	
No. of farmers	8	
Total cost	Rs. 35000	
Critical input	NRC-138	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Pods/plant, Yield quintal/ha, BC Ratio, Farmers Reaction, Feed back	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of improved variety of Soybean NRC-138 under Soybean – Wheat cropping system.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean due to heavy attack of insect-pest and diseases.
Thematic area:	Varietal evaluation
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JS-93-05
T2 –Recommended Practice-	NRC-138, Maturity- 90 days, Yield: 18-20 q/ha, resistant to YMV.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	IISR, Indore (2021).
Characteristics of technology:	NRC-138, Maturity- 90 days, Yield: 18-20 q/ha, resistant to YMV.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2 (Agronomy)

Crop / Enterprise	Rice
Title of on farm trial	Assessment of improved variety of Rice JR-206 under Rice –Wheat cropping system
Problem diagnosed	Low yield of Rice due to use of old variety.
Farmers' Practices	MTU-1010
Details of technologies selected for assessment	T ₁ MTU-1010
	T ₂ JR-206, Maturity- 120-122 days, Yield: 50-55 q/ha.
Source of technology	JNKVV, Jabalpur (2019).
Plot size	0.4 ha
No. of farmers	10
Total cost	Rs. 6000
Critical input	JR-206
Performance indicators: (i) Technical- yield (q/ ha) . (ii) Economic (iii) Social – Employment generation	Pods/plant, Yield quintal/ha, BC Ratio, Farmers Reaction, Feed back

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of improved variety of Rice JR-206 under Rice –Wheat cropping system.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to use of old variety.
Thematic area:	Varietal evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	MTU-1010
T2 –Recommended Practice-	JR-206, Maturity- 120-122 days, Yield: 50-55 q/ha.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	JNKVV, Jabalpur (2019).
Characteristics of technology:	JR-206, Maturity- 120-122 days, Yield: 50-55 q/ha.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3 (Agronomy)

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of wheat variety GW-499 for late sown condition under Rice-Wheat cropping system.	
Problem diagnosed	Low yield of Wheat due to use of old variety	
Farmers' Practices	HI-1544	
Details of technologies selected for assessment	T ₁	HI-1544
	T ₂	GW-499, Maturity- 110-115 days, Yield: 45-50 q/ha.
Source of technology	GAU, Junagadh (2019)	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 17500	
Critical input	GW-499	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of Effective Tillers (per m ²), yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of wheat variety GW-499 for late sown condition under Rice-Wheat cropping system.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Wheat due to use of old variety.
Thematic area:	Varietal evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	HI-1544
T2 –Recommended Practice-	GW-499, Maturity- 110-115 days, Yield: 45-50 q/ha.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	GAU, Junagadh (2019)
Characteristics of technology:	GW-499, Maturity- 110-115 days, Yield: 45-50 q/ha.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4 (Agronomy)

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Chickpea variety RVG-202 for late sown condition under Rice-Chickpea cropping system.
Problem diagnosed	Low yield of Chickpea due to use of old variety
Farmers' Practices	JG-16
Details of technologies selected for assessment	T ₁ JG-16
	T ₂ RVG-202, Maturity- 105-110days, Yield: 18-20 q/ha.
Source of technology	RVSKVV, Gwalior (2013).
Plot size	0.4 ha
No. of farmers	8
Total cost	Rs. 20000
Critical input	RVG-202
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pods/plant (per m ²), yield q/ha , Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Chickpea variety RVG-202 for late sown condition under Rice-Chickpea cropping system.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Chickpea due to use of old variety
Thematic area:	Varietal evaluation
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	JG-16
T2 –Recommended Practice-	RVG-202, Maturity- 105-110days, Yield: 18-20 q/ha.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	RVSKVV, Gwalior (2013).
Characteristics of technology:	RVG-202, Maturity- 105-110days, Yield: 18-20 q/ha.
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5 (Soil Science)

Crop / Enterprise	Rice
Title of on farm trial	Assessment of integration of PSB in Rice in Rice-Wheat cropping system.
Problem diagnosed	Low availability of phosphorus due to fixation in soil.
Farmers' Practices	No use of Biofertilizer.
Details of technologies selected for assessment	T ₁ No use of Biofertilizer.
	T ₂ Soil application 1.5 liter /Ac +PSB @ 10 ml/liter seedling treatment.
Source of technology	JNKVV, Jabalpur 2016
Plot size	0.4 ha
No. of farmers	10
Total cost	Rs. 6500
Critical input	PSB
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tillers/plant, yield q/ha , Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of integration of PSB in Rice in Rice-Wheat cropping system.
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low availability of phosphorus due to fixation in soil.
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Biofertilizer.
T2 –Recommended Practice-	Soil application 1.5 liter /Ac +PSB @ 10 ml/liter seedling treatment.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	JNKVV, Jabalpur 2016
Characteristics of technology:	Soil & Seedling treatment through PSB Biofertilizer
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6 (Soil Science)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of VAM in Rice crop.	
Problem diagnosed	Low yield due to imbalance use of fertilizers.	
Farmers' Practices	No use of Biofertilizer.	
Details of technologies selected for assessment	T ₁	No use of Biofertilizer.
	T ₂	VAM @ 10 kg/ha at sowing time.
Source of technology	JNKVV, Jabalpur 2016	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 9000	
Critical input	VAM	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tillers/plant, yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of VAM in Rice crop.
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizers.
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Biofertilizer.
T2 –Recommended Practice-	VAM @ 10 kg/ha at sowing time.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	JNKVV, Jabalpur 2016
Characteristics of technology:	VAM @ 10 kg/ha at sowing time.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7 (Soil Science)

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of VAM in Wheat crop.	
Problem diagnosed	Low yield due to imbalance use of fertilizers.	
Farmers' Practices	No use of Biofertilizer.	
Details of technologies selected for assessment	T ₁	No use of Biofertilizer.
	T ₂	VAM @ 10 kg/ha at sowing time.
Source of technology	JNKVV, Jabalpur 2016	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 9000	
Critical input	VAM	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tillers/plant, yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of VAM in Wheat crop.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizers.
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Biofertilizer.
T2 –Recommended Practice-	VAM @ 10 kg/ha at sowing time.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	JNKVV, Jabalpur 2016
Characteristics of technology:	VAM @ 10 kg/ha at sowing time.
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-8 (Soil Science)

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of NANO DAP in Chickpea crop	
Problem diagnosed	Low yield of chickpea due to imbalance use of Fertilizer.	
Farmers' Practices	Use of 125 kg DAP only.	
Details of technologies selected for assessment	T ₁	Use of 125 kg DAP only.
	T ₂	100% NPK(20:60:20)
	T ₃	100% N through Urea+ 50%P through DAP+ Seed treatment with NANO DAP @5 ml/kg seed +Spray with NANO DAP @2 ml/ lt of water at 30 DAS.
Source of technology	IFFCO 2019	
Plot size	0.4 ha	
No. of farmers	10	
Total cost	Rs. 9000	
Critical input	NANO DAP	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Pods/plant, yield q/ha , Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of NANO DAP in Chickpea crop.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chickpea due to imbalance use of Fertiliser.
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of 125 kg DAP only
T2 –Recommended Practice-	100% NPK(20:60:20)
T3- Recommended Practice-	100% N through Urea+ 50%P through DAP+ Seed treatment with NANO DAP @5 ml/kg seed +Spray with NANO DAP @2 ml/ lt of water at 30 DAS.
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	IFFCO 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9 (Plant Protection)

Crop / Enterprise	Maize
Title of on farm trial	Assessment of IPM module for the management of fall army worm in Maize crop.
Problem diagnosed	Low yield due to heavy infestation of fall army worm.
Farmers' Practices	Indiscriminate use of insecticides.
Details of technologies selected for assessment	T ₁ Indiscriminate use of insecticides.
	T ₂ Spray of Azadirachtin 1500 ppm @ 5 ml/l at early instar stage + Thiamethoxam 12.6 + Lambdacyhalothrin 9.5 ZC @ 0.5 ml/l during mid to late instar stage + Pheromone trap @ 15/ha.
Source of technology	IARI, New Delhi (2019)
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs. 5000
Critical input	Azadirachtin, Thiamethoxam + Lambdacyhalothrin, Pheromone trap.
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of larvae per row length, Insect infestation (%), Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for the management of fall army worm in Maize crop.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy infestation of fall army worm.
Thematic area:	IPM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of insecticides.
T2 –Recommended Practice-	Spray of Azadirachtin 1500 ppm @ 5 ml/l at early instar stage + Thiamethoxam 12.6 + Lambdacyhalothrin 9.5 ZC @ 0.5 ml/l during mid to late instar stage + Pheromone trap @ 15/ha.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	IARI, New Delhi (2019)
Characteristics of technology:	Spray of Azadirachtin 1500 ppm @ 5 ml/l at early instar stage + Thiamethoxam 12.6 + Lambdacyhalothrin 9.5 ZC @ 0.5 ml/l during mid to late instar stage + Pheromone trap @ 15/ha.
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10 (Plant Protection)

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of IPM module for the management of Stem fly in Soybean crop	
Problem diagnosed	Low yield of Soybean due to incidence of stem fly.	
Farmers' Practices	Spray of Profenophos 50 EC @ 1.25 liter/ha.	
Details of technologies selected for assessment	T ₁	Spray of Profenophos 50 EC @ 1.25 liter/ha.
	T ₂	Seed treatment with Thiamethoxam 30 FS @ 10 ml/kg of seed, Spray of Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC @ 125 ml/ha.
Source of technology	IISR, Indore (2021)	
Plot size	0.4 ha	
No. of farmers	8	
Total cost	Rs. 6000	
Critical input	Thiamethoxam, Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC.	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of Infected plant/m ² , Yield q/ha, Net return, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for the management of Stem fly in Soybean crop
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean due to incidence of stem fly.
Thematic area:	IPM
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Profenophos 50 EC @ 1.25 liter/ha.
T2 –Recommended Practice-	Seed treatment with Thiamethoxam 30 FS @ 10 ml/kg of seed, Spray of Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC @ 125 ml/ha.
T3- Recommended Practice-	-
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	IISR, Indore (2021)
Characteristics of technology:	Seed treatment with Thiamethoxam 30 FS @ 10 ml/kg of seed, Spray of Thiamethoxam 12.60% + Lambdacyhalothrin 9.50 ZC @ 125 ml/ha.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11 (Plant Protection)

Crop / Enterprise	Rice
Title of on farm trial	Assessment of pesticide for the management of Brown Plant Hopper in Rice.
Problem diagnosed	Low yield of Rice due to incidence of Brown Plant Hopper
Farmers' Practices	Spray of Chlorpyrifos 20 EC @ 1.5 lt/ha.
Details of technologies selected for assessment	T ₁ Spray of Chlorpyrifos 20 EC @ 1.5 lt/ha.
	T ₂ Spray of Imidachloprid 17.8 SL @ 250 ml/ha.
	T ₃ Spray of <i>Verticillium lecanii</i> @ 1 liter/ha.
Source of technology	JNKVV, Jabalpur (2020)
Plot size	0.4 ha
No. of farmers	8
Total cost	Rs. 7000
Critical input	Imidachloprid, <i>Verticillium lecanii</i>
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No. of Insect per hill, Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of pesticide for the management of Brown Plant Hopper in Rice.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to incidence of Brown Plant Hopper
Thematic area:	IPM
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Chlorpyrifos 20 EC @ 1.5 lt/ha.
T2 –Recommended Practice-	Spray of Imidachloprid 17.8 SL @ 250 ml/ha.
T3- Recommended Practice-	Spray of <i>Verticillium lecanii</i> @ 1 liter/ha.
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	JNKVV, Jabalpur (2020)
Characteristics of technology:	T ₂ - Spray of Imidachloprid 17.8 SL @ 250 ml/ha. T ₃ - Spray of <i>Verticillium lecanii</i> @ 1 liter/ha.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12 (Plant Protection)

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of fungicide for the management of Early Blight in tomato.
Problem diagnosed	Low yield of tomato due to heavy infection of Early Blight disease.
Farmers' Practices	No judicious use of fungicide.
Details of technologies selected for assessment	T ₁ No judicious use of fungicide.
	T ₂ Spray of Azoxystrobin 18.2% + Difenoconazole 11.4 SC @ 500 ml/ha at 45 DAT.
Source of technology	JNKVV, Jabalpur (2020)
Plot size	0.4 ha
No. of farmers	8
Total cost	Rs. 7000
Critical input	Hexaconazole, Azoxystrobin + Difenoconazole.
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Disease Incidence (%), Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of fungicide for the management of Early Blight in tomato.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of tomato due to heavy infection of Early Blight disease.
Thematic area:	IDM
No of trials:	8
No. of farmers involved	8
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No judicious use of fungicide.
T2 –Recommended Practice-	Spray of Azoxystrobin 18.2% + Difenoconazole 11.4 SC @ 500 ml/ha at 45 DAT.
T3- Recommended Practice-	-
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	JNKVV, Jabalpur (2020)
Characteristics of technology:	Spray of Azoxystrobin 18.2% + Difenoconazole 11.4 SC @ 500 ml/ha at 45 DAT.
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13 (Horticulture)

Crop / Enterprise	Chilli
Title of on farm trial	Assessment for CHLCV resistant Hybrid Arka Tejasvi (H-41) of Chilli.
Problem diagnosed	Low yield of chilli due to leaf curl virus
Farmers' Practices	Local variety
Details of technologies selected for assessment	T ₁ Local variety
	T ₂ Arka Tejasvi, Highly pungent, CHLCV & Powdery mildew resistant, Yield: 150-200 q/ha (Green)
Source of technology	IIHR, Bangalore (2019).
Plot size	0.05 ha
No. of farmers	5
Total cost	Rs. 9000
Critical input	Arka Tejasvi Seed.
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Fruit weight (g), fruit length, Yield/plant, Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment for CHLCV resistant Hybrid Arka Tejasvi (H-41) of Chilli.
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chilli due to leaf curl virus
Thematic area:	HOV-VE
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local variety
T2 –Recommended Practice-	Arka Tejasvi, Highly pungent, CHLCV & Powdery mildew resistant, Yield: 150-200 q/ha (Green)
T3- Recommended Practice-	
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	IIHR, Bangalore (2019).
Characteristics of technology:	Arka Tejasvi, Highly pungent, CHLCV & Powdery mildew resistant, Yield: 150-200 q/ha (Green).
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-14 (Horticulture)

Crop / Enterprise	Ashwagandha
Title of on farm trial	Assessment of high yielding variety (Sim pushti) of Ashwagandha.
Problem diagnosed	Low yield of Ashwagandha due to use of old variety
Farmers' Practices	Local variety
Details of technologies selected for assessment	T ₁ Local variety
	T ₂ Sim pushti, Yield: 12-15 q/ha, root length: 30-40 cm.
Source of technology	CIMAP, Lucknow (2018)
Plot size	0.05 ha
No. of farmers	5
Total cost	Rs. 7000
Critical input	Seed.
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Root length, width, Yield/plant, Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of high yielding variety (Sim pushti) of Ashwagandha.
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Ashwagandha due to use of old variety
Thematic area:	HOV-VE
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local variety
T2 –Recommended Practice-	Sim pushti, Yield: 12-15 q/ha, root length: 30-40 cm.
T3- Recommended Practice-	
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Source of technology:	CIMAP, Lucknow (2018)
Characteristics of technology:	Sim pushti, Yield: 12-15 q/ha, root length: 30-40 cm.
Name of Crop/Enterprises:	Ashwagandha
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-15 (Horticulture)

Crop / Enterprise	Garlic
Title of on farm trial	Assessment of Improved Variety of Garlic (G-323) with integrated crop management.
Problem diagnosed	Low yield of Garlic due to use of old variety
Farmers' Practices	Local variety
Details of technologies selected for assessment	T ₁ Local variety
	T ₂ G-323, Yield: 175-200 q/ha, No. of Cloves/bulb: 20-25, Duration: 140-150 days.
Source of technology	NHRDF, Pune.
Plot size	0.10 ha
No. of farmers	5
Total cost	Rs. 8000
Critical input	Seed.
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Cloves/Bulb (No.), Bulb size (cm), Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Improved Variety of Garlic (G-323) with integrated crop management.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Garlic due to use of old variety
Thematic area:	HOS-VE
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local variety
T2 –Recommended Practice-	G-323, Yield: 175-200 q/ha, No. of Cloves/bulb: 20-25, Duration: 140-150 days.
T3- Recommended Practice-	
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	NHRDF, Pune.
Characteristics of technology:	G-323, Yield: 175-200 q/ha, No. of Cloves/bulb: 20-25, Duration: 140-150 days.
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-16 (Horticulture)

Crop / Enterprise	Onion
Title of on farm trial	Assessment for Improved Variety of Onion (Bhima Red).
Problem diagnosed	Low yield of Onion due to use of old variety
Farmers' Practices	Local variety
Details of technologies selected for assessment	T ₁ Local variety
	T ₂ Bhima Red, Yield: 30-32 t/ha, Duration: 110-120 days.
Source of technology	DOGR, Pune.
Plot size	0.10 ha
No. of farmers	5
Total cost	Rs. 6000
Critical input	Seed.
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Bulb size (cm), Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment for Improved Variety of Onion (Bhima Red).
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Onion due to use of old variety
Thematic area:	HOS-VE
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local variety
T2 –Recommended Practice-	Bhima Red, Yield: 30-32 t/ha, Duration: 110-120 days.
T3- Recommended Practice-	
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	DOGR, Pune.
Characteristics of technology:	Bhima Red, Yield: 30-32 t/ha, Duration: 110-120 days.
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-17 (Horticulture)

Crop / Enterprise	Cauliflower
Title of on farm trial	Assessment for early variety of Arka Vimal Cauliflower.
Problem diagnosed	Low income due to non-availability for early variety of Cauliflower.
Farmers' Practices	Local variety
Details of technologies selected for assessment	T ₁ Local variety
	T ₂ Arka Vimal , Yield: 17-18 t/ha, Duration: 75-80 days.
Source of technology	IIHR, Bangalore (2018).
Plot size	0.05 ha
No. of farmers	5
Total cost	Rs. 8000
Critical input	Seed.
Performance indicators: I.Technical- yield (q/ ha) II.Economic III.Social – Employment generation	Curd size (cm.), Curd weight (gm), Yield q/ha, Net return, B:C ratio

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment for early variety of Arka Vimal Cauliflower.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low income due to non-availability for early variety of Cauliflower.
Thematic area:	HOV-VE
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local variety
T2 –Recommended Practice-	Arka Vimal, Yield: 17-18 t/ha, Duration: 75-80 days.
T3- Recommended Practice-	
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Source of technology:	IIHR, Bangalore (2018).
Characteristics of technology:	Arka Vimal, Yield: 17-18 t/ha, Duration: 75-80 days.
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-18 (Fisheries)

Crop / Enterprise	Grass carps
Title of on farm trial	Assessment of biological control of aquatic weeds by grass carps.
Problem diagnosed	Ponds infested with aquatic weed.
Farmers' Practices	Unaware of Stocking of Grass carp along with Catla, Rohu, & Mrigal
Details of technologies selected for assessment	T ₁ Unaware of Stocking of Grass carp along with Catla, Rohu, & Mrigal
	T ₂ Stocking of Grass carp fingerlings @ 2000 numbers/ha. IMC and Grass carps, Grass carp consume the aquatic weed for its body growth and cleans the pond by biological means, thus increasing the productivity of the pond
Source of technology	CIFA
Plot size	-
No. of farmers	3
Total cost	Rs. 4000
Critical input	Grass carp
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	BC Ratio, Farmers Reaction, Feed back

Detailed Information about OFT:

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of biological control of aquatic weeds by grass carps.
Year/Season:	2023/Kharif/Rabi
Farming situation:	-
Problem diagnosis:	Ponds infested with aquatic weed.
Thematic area:	Production and Management
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Unaware of Stocking of Grass carp along with Catla, Rohu, & Mrigal
T2 –Recommended Practice-	Stocking of Grass carp fingerlings @ 2000 numbers/ha. IMC and Grass carps, Grass carp consume the aquatic weed for its body growth and cleans the pond by biological means, thus increasing the productivity of the pond
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFA
Characteristics of technology:	Stocking of Grass carp fingerlings @ 2000 numbers/ha. IMC and Grass carps, Grass carp consume the aquatic weed for its body growth and cleans the pond by biological means, thus increasing the productivity of the pond
Name of Crop/Enterprises:	Grass carps
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-19 (Fisheries)

Crop / Enterprise	Lime	
Title of on farm trial	Assessment to use lime in fish culture pond.	
Problem diagnosed	Low production due to low pH.	
Farmers' Practices	No use of Lime	
Details of technologies selected for assessment	T ₁	No use of Lime
	T ₂	Lime use.
Source of technology	CIFA	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs. 9000	
Critical input	Lime	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	BC Ratio, Farmers Reaction, Feed back	

Detailed Information about OFT:

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment to use lime in fish culture pond.
Year/Season:	2023/Kharif/Rabi
Farming situation:	-
Problem diagnosis:	Low production due to low pH.
Thematic area:	Production and Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Lime
T2 –Recommended Practice-	Lime use.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFA
Characteristics of technology:	Lime use.
Name of Crop/Enterprises:	Lime
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-20 (Fisheries)

Crop / Enterprise	Fish
Title of on farm trial	Assessment of Growth performance of multivitamin and mineral in Pangasius fish.
Problem diagnosed	Poor growth and low fish production
Farmers' Practices	No use
Details of technologies selected for assessment	T ₁ | No use
	T ₂ | Multivitamin with minerals @ 2% of feed
Source of technology	ICAR-CIFE
Plot size	-
No. of farmers	3
Total cost	
Critical input	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Growth performance of multivitamin and mineral in Pangasius fish.
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	Poor growth and low fish production
Thematic area:	Production and Management
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use
T2 –Recommended Practice-	Multivitamin with minerals @ 2% of feed
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-CIFE
Characteristics of technology:	Multivitamin with minerals which essential for the fish growth.
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-21 (Fisheries)

Crop / Enterprise	Fish
Title of on farm trial	Assessment of Growth Promoter on IMC and EC.
Problem diagnosed	Poor fish growth and Low fish production.
Farmers' Practices	Not use growth promoter
Details of technologies selected for assessment	T ₁ | Not use growth promoter
	T ₂ | Growth promoter use
Source of technology	ICAR-CIFE
Plot size	0.4 ha
No. of farmers	5
Total cost	4000
Critical input	Growth Promoter
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Growth rate, BC Ratio, Feed back

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Growth Promoter on IMC and EC.
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	Poor fish growth and Low fish production.
Thematic area:	Production and Management
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Not use growth promoter
T2 –Recommended Practice-	Growth promoter use
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-CIFE
Characteristics of technology:	Growth promoter which enhances the fish growth through increasing metabolism.
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-22 (Animal Science)

1	Enterprise	Goats
2	Title of on-farm trial	Assessment of UMMB in goats.
3	Problem diagnosed	Low milk production in goats due to nitrogen & other mineral deficiency
4	Farming situation	Rainfed
5	Production system and thematic area	AS
6	Farmers' practices	No use of urea treated fodder and molases in feeding goats
7	Details of technologies selected for assessment/refinement Treatments	T1- No use of urea treated fodder and molases in feeding goats T2- Use of UMMB in diet as Lick to improve milk production. Increase rumen microflora, have good iron content and provides trace minerals not available in daily feeds.
8	Source of technology	NDDB
9	No. of animals	10
10	No. of farmers	10
11	Critical input	UMMB
12	Cost of input	3500
13	Total cost	4500
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk Yield (Lts./day), BC Ratio, Farmers Reaction, Feed back

Detailed Information about OFT:

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of UMMB in goats.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low milk production in goats due to nitrogen & other mineral deficiency
Thematic area:	AS
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of urea treated fodder and molases in feeding goats.
T2 –Recommended Practice-	Use of UMMB in diet as Lick to improve milk production. Increase rumen microflora, have good iron content and provides trace minerals not available in daily feeds.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDDB
Characteristics of technology:	Use of UMMB in diet as Lick to improve milk production. Increase rumen microflora, have good iron content and provides trace minerals not available in daily feeds.
Name of Crop/Enterprises:	UMMB
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-23 (Animal Science)

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

Detailed Information about OFT:

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of chelated calcium in dairy animals.
Year/Season:	2023/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low milk production due to calcium deficiency
Thematic area:	AS
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of calcium in feeding of dairy animals
T2 –Recommended Practice-	Use of chelated calcium @ 60 ml/day for 90 days. Chelated calcium absorb easily in body, improve body calcium & better for milk production improvement.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI
Characteristics of technology:	Use of chelated calcium @ 60 ml/day for 90 days. Chelated calcium absorb easily in body, improve body calcium & better for milk production improvement.
Name of Crop/Enterprises:	Chelated calcium
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-24

Information about Extension OFT:

Title	Assessment of awareness and adoption of Drip irrigation method in vegetable crop for income generation.
Season & Year	2023
Problem identified	Lack of knowledge and benefits of drip irrigation in intensive vegetable production.
Thematic Area	Water conservation technology
Farming situation	Irrigated
Name of Technology Intervention under study	Hi - tech horticulture production for more income generation
Farmers Practice	Non user of drip irrigation
No. of replication (Farmers)	50

Results / findings

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

OFT-25

Information about Extension OFT:

Title	Assessment of whatsapp in dissemination of integrated disease management technology of Chickpea.
Season & Year	2023
Problem identified	Lack of knowledge and good farming practices.
Thematic Area	Information communication technology
Farming situation	Irrigated & rainfed
Name of Technology Intervention under study	Hi - tech horticulture production for more income generation
Farmers Practice	Individual user
No. of replication (Farmers)	75

Results / findings

Performance indicators/ parameters	Unit/ details
Knowledge level , Adoption level, Attitude of whatsapp user regarding wilt disease in Chickpea , Constraints	-

OFT-26 (Home Science)

Crop / Enterprise	Biofortified Paddy	
Title of on farm trial	Assessment of Biofortified Paddy Variety DRR 48 and DRR 49 for Nutritional Security of farm women.	
Problem diagnosed	Low nutrition intake through regular consumed Rice in daily diet, Farm women Suffers Zinc & Protein Deficiency	
Farmers' Practices	Pusa Basmati	
Details of technologies selected for assessment	T ₁	Pusa Basmati
	T ₂	DRR-48
	T ₃	DRR-49
Source of technology	IIRR, Hyderabad	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	2000	
Critical input	Seed	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Production per unit, Nutritional Intake , Anthropometric Measurement, BC Ratio, Farmers Reaction, Feed back	

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Biofortified Paddy Variety DRR 48 and DRR 49 for Nutritional Security of farm women.
Year/Season:	2023/Kharif
Problem diagnosis:	Low nutrition intake through regular consumed Rice in daily diet, Farm women Suffers Zinc & Protein Deficiency
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Pusa Basmati
T2 –Recommended Practice-	DRR-48
T3 –Recommended Practice-	DRR-49
Source of technology:	IIRR,Hyderabad
Characteristics of technology:	Biofortified Paddy Variety DRR 48 and DRR 49 for Nutritional Security of farm women.
Name of Crop/Enterprises:	Paddy
Farming situation:	Rainfed
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-27 (Home Science)

Crop / Enterprise	Biofortified Sweet Potato	
Title of on farm trial	Assessment of Biofortified Sweet potato Variety BHU Sona for Nutritional Security of farm women.	
Problem diagnosed	Lack of Pro vitamin –A in farm women Diet. Farm women suffering vitamin deficiencies.	
Farmers' Practices	Traditional Variety	
Details of technologies selected for assessment	T ₁	Traditional Variety
	T ₂	BHU Sona (Provitamin –A Rich Varieties 14mg/100 gm)
Source of technology	ICAR –Central Tuber Crop Research Institute, Thiruvananthapuram	
Plot size	100 slips/ Farm women	
No. of farmers	5	
Total cost	3000	
Critical input	slips	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Production per unit, Nutritional Intake, Anthropometric Measurement, BC Ratio, Farmers Reaction, Feed back	

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Biofortified Sweet potato Variety BHU Sona for Nutritional Security of farm women.
Year/Season:	2023/Kharif
Problem diagnosis:	Lack of Pro vitamin –A in farm women Diet. Farm women suffering vitamin deficiencies.
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Traditional Variety
T2 –Recommended Practice-	BHU Sona (Provitamin –A Rich Varieties 14mg/100 gm)
T3 –Recommended Practice-	-
Source of technology:	ICAR –Central Tuber Crop Research Institute, Thiruvananthapuram
Characteristics of technology:	BHU Sona (Provitamin –A Rich Varieties 14mg/100 gm)
Name of Crop/Enterprises:	Biofortified Sweet potato
Farming situation:	Irrigated
Date of sowing:	Kharif-2023
Date of harvesting:	Kharif-2023
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-28 (Home Science)

Crop / Enterprise	Biofortified Wheat	
Title of on farm trial	Assessment of Biofortified Wheat variety DBW 187 Karan Vandana (DURUM) Variety for Nutritional Security of farm women.	
Problem diagnosed	Low Nutritional status of farm women due to daily Consumption of less protein , Iron and zinc Rich Wheat.	
Farmers' Practices	Traditional Variety GW-322, HI-1544.	
Details of technologies selected for assessment	T ₁	Traditional Variety GW-322, HI-1544.
	T ₂	DBW 187(iron 43.1 PPM)
Source of technology	ICAR – Indian institute of wheat & Barley Research Karnal	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	9000	
Critical input	Seed	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Production per unit, Nutritional Intake, Anthropometric Measurement, BC Ratio, Farmers Reaction, Feed back	

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Biofortified Wheat variety DBW 187 Karan Vandana (DURUM) Variety for Nutritional Security of farm women
Year/Season:	2023/Rabi
Problem diagnosis:	Low Nutritional status of farm women due to daily Consumption of less protein, Iron and zinc Rich Wheat.
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Traditional Variety GW-322, HI-1544.
T2 –Recommended Practice-	DBW 187(iron 43.1 PPM)
T3 –Recommended Practice-	-
Source of technology:	ICAR – Indian institute of wheat & Barley Research Karnal
Characteristics of technology:	DBW 187(iron 43.1 PPM)
Name of Crop/Enterprises:	Biofortified Wheat
Farming situation:	Irrigated
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-29 (Home Science)

Crop / Enterprise	Biofortified Lentil	
Title of on farm trial	Assessment of Biofortified Lentil Variety Pusa Ageti masoor (Pure line variety) for Nutritional Security of farm women.	
Problem diagnosed	Low Nutritional status & Non availability of iron through pulses Consumption in daily diet	
Farmers' Practices	Traditional Variety Black Lentil & Mallika.	
Details of technologies selected for assessment	T ₁	Traditional Variety Black Lentil & Mallika.
	T ₂	Pusa Ageti Masoor (Iron 65.0 PPM)
Source of technology	ICAR - IARI, New Delhi	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	7000	
Critical input	Seed	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Production per unit, Nutritional Intake, Anthropometric Measurement, BC Ratio, Farmers Reaction, Feed back	

Information about Home Science OFT:

Title of on-farm trial:	Assessment of Biofortified Lentil Variety Pusa Ageti masoor (Pure line variety) for Nutritional Security of farm women.
Year/Season:	2023/Rabi
Problem diagnosis:	Low Nutritional status & Non availability of iron through pulses Consumption in daily diet
Thematic area: (Focus area in DFI and nutri smart initiatives)	WOE
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Traditional Variety Black Lentil & Mallika.
T2 –Recommended Practice-	Pusa Ageti Masoor (Iron 65.0 PPM)
T3 –Recommended Practice-	-
Source of technology:	ICAR - IARI, New Delhi
Characteristics of technology:	Pusa Ageti Masoor (Iron 65.0 PPM)
Name of Crop/Enterprises:	Biofortified Lentil
Farming situation:	Irrigated
Date of sowing:	Rabi-2023
Date of harvesting:	Rabi-2023
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	Diclosulam 84% @ 26 gm a.i./ha. (PE)	Weedicide	Kharif-2023	4.0	10	Yield q/ha
2	Maize	Weed Management	Tembotrione 115gm/acre. at 20-30 DAP	Weedicide	Kharif-2023	2.0	5	Yield q/ha
3	Wheat	Varietal evaluation	HI-1634, Maturity-105-110 days, Yield-45-50 q/ha.	Seed	Rabi-2023	4.0	10	Yield q/ha
4	Wheat	Weed Management	Post emergence spray of Clodinophop + metsulfuron @ 400 gm/ha at 20-25 DAS.	Weedicide	Rabi-2023	4.0	10	Yield q/ha
5	Rice	INM	2 ml/liter Nano Urea spray at 20-25 DAT and Dough stage.	Nano Urea	Kharif-2023	4.0	10	Yield q/ha
6	Soybean	INM	Seed treatment with Rhizobium + PSB @ 10 ml/kg seed + KSB @2.5 liter/ha.	Rhizobium, PSB, KSB	Kharif-2023	4.0	10	Yield q/ha
7	Wheat	INM	2 ml/liter Nano Urea spray at 20-25 DAT and Dough stage.	Nano Urea	Rabi-2023	4.0	10	Yield q/ha
8	Tomato	INM	First spray at pre flowering stage & Second spray after fruit set @ 0.5% Boron solution	Boron	Rabi-2023	4.0	10	Yield q/ha
9	Chickpea	INM	Seed treatment with Rhizobium + PSB @ 10 ml/kg seed + KSB @2.5 liter/ha.	Rhizobium, PSB, KSB	Rabi-2023	4.0	10	Yield q/ha
10	Onion	HOS	Bhima Super- High yielding, good keeping quality, Resistance against thrips and fungal diseases Mature in 110-120 days.	Bhima Super Seed	Late Kharif-2023	0.4	10	Yield q/ha
11	Broccoli	HOV	Broccoli variety KTS-1: Head size- 350 cm, Head weight- 450 gm, Duration: 90-105 days, resistant to mild frost & snow fall, Yield: 65 q/ha.	Seed	Rabi-2023	0.2	10	Yield q/ha
12	Tomato	HOV	High yielding tomato hybrid Arka Samrat (Triple disease resistant) fruits	Seed	Rabi-2023	0.4	10	Yield q/ha

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
			oblate to high round, large((90- 110gm) and potential yield 80-85 t/ha.					
13	Soybean	IPM	IPM module (Bird percher 50/ha + pheromone trap 12/ha + Insecticide Chlorentraniliprole 18.5 SC @ 125 ml/ha).	Bird percher, pheromone trap, Chlorentraniliprole 18.5 SC	Kharif-2023	4.0	10	Yield q/ha
14	Rice	IDM	Seed treatment with Carbendazim @ 2 g/kg + Foliar spray of copper oxy chloride @ 3 g/l	Carbendazim, Copper oxy chloride	Kharif-2023	4.0	10	Yield q/ha
15	Rice	IDM	Seed treatment with Trichoderma viride @ 5 g/kg + Foliar spray of Propiconazole 25 EC @ 500 ml/ha	<i>Trichoderma viride</i> , Propiconazole	Kharif-2023	4.0	10	Yield q/ha
16	Chickpea	IPM	Bird percher 50/ha + pheromone trap 12/ha+ NPV 250 LE/ha + Chlorentraniliprole 18.5 SC @ 125 ml/ha).	Bird percher, Pheromone trap, NPV, Chlorentraniliprole.	Rabi-2023	4.0	10	Yield q/ha
17	Paddy	Nutritional Security (WOE)	Biofortified Paddy Variety CR Dhan 310	Seed	Kharif-2023	4.0	10	Production, Nutritional intake , Anthropometric measurement
18	Pigeon pea	Income Generation WOE 2023	Grain Pro super beg for Income generation through reduced losses during storage practice in pigeon pea	Grain Pro super beg	Kharif-2023	0.4	10	% Saving of seed due to storage
19	Vegetable	Nutritional Security	Roof Top garden for Nutritional Security & of Land less women in Rural area.	Roof Top garden	Rabi-2023	-	10	Nutrient intake % save of money % daily consumption of vegetables Anthropometric measurement.
20	Oyster Mushroom	Nutritional Security	Proper subtract (Paddy & Wheat straw) of Oyster Mushroom	Seed, Straw & Holding material	Rabi-2023	-	10	Production/bag (Kg), Nutrient intake & Anthropometric measurement.

Extension and Training activities under FLDs

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

Details of FLD on Enterprises
Farm Implements

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

**Field efficiency, labour saving etc.*

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Dairy	CB	10	10	Urea molasses mineral block (UMMB)	Milk Yield (Lts/day)	-	-
Dairy	CB	10	10	Hybrid Napier for Fodder production for feeding to dairy animals.	Milk Yield (Lts/day)	-	-

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

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Fisheries	Pangasius	5	0.25 ha	Pangasius	Average productivity	-	-

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 variety + IPM	Seed, Fungicide & Bio-pesticide	Kharif, 2023	20	50	Yield (q/ha)
2	Linseed	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Rabi, 2023	20	50	Yield (q/ha)
3	Blackgram	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Kharif, 2023	20	50	Yield (q/ha)
4	Chickpea	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Rabi, 2023	20	50	Yield (q/ha)
5	Lentil	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Rabi, 2023	20	50	Yield (q/ha)
6	Greengram	ICM	Improved variety + IPM	Seed, Fungicide & Bio-pesticide	Zaid, 2023	20	50	Yield (q/ha)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6		
2	Farmers Training	6		
3	Media coverage	12		
4	Training for extension functionaries	1		

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1	-	-	-	-	-	-	25
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	1	1	-	-	-	-	-	-	25
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-
Nursery management	1	1	-	-	-	-	-	-	25
Integrated Crop Management	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-
Total	3	1	-	-	-	-	-	-	75
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1	-	-	-	-	-	-	25
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	1	1	-	-	-	-	-	-	25
b) Fruits									
Cultivation of Fruit	1	1	-	-	-	-	-	-	25
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-
d) Plantation crops									
e) Tuber crops									
f) Spices									
1	1	-	-	-	-	-	-	-	25
g) Medicinal and Aromatic Plants									
1	1	-	-	-	-	-	-	-	25
Total	5	1	-	-	-	-	-	-	125
III Soil Health and Fertility Management									
Soil fertility management	1	1	-	-	-	-	-	-	25
Soil and Water Conservation	1	1	-	-	-	-	-	-	25
Integrated Nutrient Management	2	1	-	-	-	-	-	-	50
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	2	1	-	-	-	-	-	-	50
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	6	1	-	-	-	-	-	-	150
IV Livestock Production and Management									
Dairy Management	2	1	-	-	-	-	-	-	40
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	2	1	-	-	-	-	-	-	40
Feed management	1	1	-	-	-	-	-	-	20
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	5	1	-	-	-	-	-	-	100
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	1	-	-	-	-	-	-	50
Design and development of low/minimum cost diet	1	1	-	-	-	-	-	-	25
Designing and development for high nutrient efficiency diet	2	1	-	-	-	-	-	-	50
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of	2	1	-	-	-	-	-	-	50

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jul-2023	F&FW	Weed Management	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Resource Conservation Technologies	1	-	-	-	-	-	-	25
Aug-2023	F&FW	Seed production	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Integrated Crop Management	1	-	-	-	-	-	-	25
Jul-2023	F&FW	Integrated Crop Management	1	-	-	-	-	-	-	25
Horticulture										
May-2023	F&FW	Off-season vegetables	1	-	-	-	-	-	-	25
May-2023	F&FW	Management of young plants/orchards	1	-	-	-	-	-	-	25
Livestock production										
April, 2023	F&FW	Dairy Management	1	-	-	-	-	-	-	20
October, 2023	F&FW	Poultry Management	1	-	-	-	-	-	-	20
June, 2023	F&FW	Disease Management	1	-	-	-	-	-	-	20
July, 2023	F&FW	Feed management	1	-	-	-	-	-	-	20
August, 2023	F&FW	Goat Management	1	-	-	-	-	-	-	20
Plant Protection										
Jul-2023	F&FW	Integrated Pest Management	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Integrated Disease Management	1	-	-	-	-	-	-	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Jul-2023	F&FW	Capacity Building & Development	1	-	-	-	-	-	-	25
Nov-2023	F&FW	Capacity Building & Development	1	-	-	-	-	-	-	25
Dec-2023	F&FW	Capacity Building & Development	1	-	-	-	-	-	-	25
Soil Science										
Jul-2023	F&FW	Soil fertility management	1	-	-	-	-	-	-	25
Aug-2023	F&FW	Micro nutrient deficiency in crops	1	-	-	-	-	-	-	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jul-2023	F&FW	Weed Management	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Crop Diversification	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Nursery management	1	-	-	-	-	-	-	25
Horticulture										
Jun-2023	F&FW	Nursery raising	1	-	-	-	-	-	-	25
Jul-2023	F&FW	Protective cultivation (Green Houses, Shade Net etc.)	1	-	-	-	-	-	-	25
Sep-2023	F&FW	Cultivation of Fruit	1	-	-	-	-	-	-	25
Oct-2023	F&FW	Spices	1	-	-	-	-	-	-	25
Nov-2023	F&FW	Medicinal and Aromatic Plants	1	-	-	-	-	-	-	25
Livestock production										
May, 2023	F&FW	Dairy Management	1	-	-	-	-	-	-	20
Nov, 2023	F&FW	Dairy Management	1	-	-	-	-	-	-	20
July, 2023	F&FW	Disease Management	1	-	-	-	-	-	-	20
Sep, 2023	F&FW	Disease Management	1	-	-	-	-	-	-	20
Dec, 2023	F&FW	Feed management	1	-	-	-	-	-	-	20
Plant Protection										
Aug-2023	F&FW	Integrated Pest Management	1	-	-	-	-	-	-	25
Dec-2023	F&FW	Integrated Pest Management	1	-	-	-	-	-	-	25
Aug-2023	F&FW	Integrated Disease Management	1	-	-	-	-	-	-	25
Nov-2023	F&FW	Integrated Disease Management	1	-	-	-	-	-	-	25
Dec-2023	F&FW	Bio-control of pests and diseases	1	-	-	-	-	-	-	25
Dec-2023	F&FW	Production of bio control agents and bio pesticides	1	-	-	-	-	-	-	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Feb-2023	F&FW	Leadership development	1	-	-	-	-	-	-	25
Mar-2023	F&FW	Group dynamics	1	-	-	-	-	-	-	25
Apr-2023	F&FW	Group dynamics	1	-	-	-	-	-	-	25
May-2023	F&FW	Entrepreneurial development of farmers/youths	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Entrepreneurial development of farmers/youths	1	-	-	-	-	-	-	25
Soil Science										
Jul-2023	F&FW	Soil fertility management	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Soil and Water Conservation	1	-	-	-	-	-	-	25
Jul-2023	F&FW	Integrated Nutrient Management	1	-	-	-	-	-	-	25
Aug-2023	F&FW	Micro nutrient deficiency in crops	1	-	-	-	-	-	-	25
Dec-2023	F&FW	Integrated Nutrient Management	1	-	-	-	-	-	-	25
Dec-2023	F&FW	Micro nutrient deficiency in crops	1	-	-	-	-	-	-	25
Fisheries										
Apr-2023	F&FW	Integrated fish farming	1	-	-	-	-	-	-	25
Aug-2023	F&FW	Fish disease and their management	1	-	-	-	-	-	-	25
Sep-2023	F&FW	Importance of lime in fish culture	1	-	-	-	-	-	-	25
Jun-2023	F&FW	Method of fish fry stock in fish pond	1	-	-	-	-	-	-	25
Oct-2023	F&FW	Water quality management in fish farming	1	-	-	-	-	-	-	25
Apr-2023	F&FW	Duckweed : A potential source	1	-	-	-	-	-	-	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		in aquaculture								
Home Science/Women empowerment										
Jan-2023	FW	Household food security by kitchen gardening and nutrition gardening	1	-	-	-	-	-	-	25
Feb-2023	FW	Household food security by kitchen gardening and nutrition gardening	1	-	-	-	-	-	-	25
Mar-2023	FW	Design and development of low/minimum cost diet	1	-	-	-	-	-	-	25
Mar-2023	FW	Designing and development for high nutrient efficiency diet	1	-	-	-	-	-	-	25
Apr-2023	FW	Designing and development for high nutrient efficiency diet	1	-	-	-	-	-	-	25
Jul-2023	FW	Income generation activities for empowerment of rural Women	1	-	-	-	-	-	-	25
Aug-2023	FW	Income generation activities for empowerment of rural Women	1	-	-	-	-	-	-	25
Oct-2023	FW	Location specific drudgery reduction technologies	1	-	-	-	-	-	-	25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jul-2023	RY	Seed production	5	-	-	-	-	-	-	25
Horticulture										
Jun-2023	RY	Planting material production	5	-	-	-	-	-	-	25
Livestock production										
May, 2023	RY	Goat farming and Management	5	-	-	-	-	-	-	15
Home Science										
Jul-2023	RY	Value Addition	5	-	-	-	-	-	-	25
Plant Protection										
-	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
Jun-2023	RY	Entrepreneurial development of rural youths	5	1	-	-	-	-	-	25
Soil Science										
Aug-2023	RY	Vermi-culture	5	-	-	-	-	-	-	25

Target for Production and supply of Technological products

SEED MATERIALS

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

PLANTING MATERIALS

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

Bio-products

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

BIOFERTILIZERS		-	-	-
1	Vermicompost	-	-	-
2	NADEP	-	-	-
BIO PESTICIDES		-	-	-
1	Dashparni ark	-	-	-
2	Pesticides	-	-	-

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
February-2008	Quarterly	1000

Details of Electronic Media to be Produced

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

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

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

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

Field activities

Name of villages identified for adoption with block name:

S. No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Baniyakhedi	Gairatganj	27
2	Sandook	Gairatganj	24

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2014

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

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

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district: Yes

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

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
fruit Orchard	Technical Support
-	-

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan, Feb, Mar	Natural Farming Awareness program	300
Apr, May, Jun, Jul	Natural Farming Training program	300
Jul, Aug	Natural Farming Demonstration	200

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1700 Sq m

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

Details of Demonstration Unit at KVK

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

ANNUAL ACTION PLAN 2023

KVK : Ratlam (M.P.)

Year of sanction : 1996

1.1 Name of the Programme Coordinator with phone & mobile No

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

1.2 Staff Position on (31th Dec.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. Sarvesh Tripathy	Sr. Scientist and Head	Agril. Extension	37400-67000 G.P. 9000	19.09.18	19.09.18	9425387620	sarveshtrpathy@gmail.com	
2	Subject Matter Specialist	Dr. Barkha Sharma	SMS	Home Science	15600-39100 G.D. Rs. 5400	14.09.18	14.09.18	9754822000	asbarkhasharma@gmail.com	
3	Subject Matter Specialist	Dr. C.R. Kantwa	SMS	Agronomy	15600-39100 G.D. Rs. 5400	14.09.18	14.09.18	9408424690	crkantwa@gmail.com	
4	Subject Matter Specialist	Dr. Ramdhan Ghaswa	SMS	Agril. Extension	15600-39100 G.D. Rs. 5400	14.09.18	14.09.18	9928003302	ramdhanhorti86@gmail.com	
5	Subject Matter Specialist	Dr. R.S. Bhadauria	SMS	Horticulture	15600-39100 G.D. Rs. 5400	26.09.18	26.09.18	8871752179	rohatahsingh1986@gmail.com	
6	Subject Matter Specialist	Dr. Sushil Kumar	SMS	Animal Husbandry	15600-39100 G.D. Rs. 5400	01.12.20	01.12.20	9350075855	vetsushil09@gmail.com	
7	Subject Matter Specialist	Dr. G.P. Tiwari	SMS	Plant Pathology	15600-39100 G.D. Rs. 5400	02.12.20	02.12.20	9993567959	gyanendratiwari808@gmail.com	
8	Programme Assistant	Dr. Shish Ram Jakhar	PA	Soil Science	9300-34800 G.D. Rs. 4200	01.12.20	01.12.20	9340593286	soilshish1993@gmail.com	
9	Computer Programmer/ Programme Assistant	Manoj Kumar Rajak	P.A.	Computer	9300-34800 G.D. Rs. 4200	16.05.05	16.05.05	9644904004	drpachauri98@gmail.com	
10	Farm Manager	Dr. D.R. Pachauri	Farm Manager	Animal Husbandry	9300-34800 G.D. Rs. 4200	18.03.14	18.03.14	9977932896	mkr.kvk@gmail.com	
11	Assistant	Anil Upadhyay	Accountant	-	9300-34800 G.D. Rs. 4200	11.02.10	11.02.10	9589009989	upadhyay.kvk@gmail.com	
12	Jr. Stenographer / Comp. Operator	Ajit Jain	Stenographer	Hindi Steno	5200 – 20200 G.D. Rs. 2400	03.12.20	03.12.20	9399375289	98ajitjain@gmail.com	
13	Driver	Mata Prasad Sharma	Driver	-	5200 – 20200 G.D. Rs. 2000	07.02.00	07.02.00	9981433006	mppspsk1@gmail.com	
14	Driver	Ghyanshyam	Driver	-	5200 – 20200 G.D. Rs. 2000	01.02.00	01.02.00	9753631433	-	
15	Supporting staff	Niranjan Nath	Supporting staff	-	4400-7440 G.D. 1300	07.02.00	07.02.00	9179554858	-	
16	Supporting staff	Mukesh	Supporting staff	-	4400-7440 G.D. 1300	07.02.00	07.02.00	7509152108	-	

1.3 Total land with KVK (in ha) : 27.058

S. No.	Item	Area (ha)
1	Under Buildings	4.41
2	Under Demonstration Units	1.5
3	Under Crops	13.5
4	Orchard/Agro-forestry	7.648
5	Others (specify)	-
Total		27.05

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	31.03.06		29.41	-	-	-
2	Farmers Hostel	ICAR	31.03.07		18.39	-	-	-
3	Staff Quarters (6)	ICAR	31.03.09		32.43	-	-	-
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system	ICAR	31.03.07		8.54			
7	Threshing floor	ICAR	31.03.06		2.70	-	-	-
8	Farm godown							
9	Soil & Water Testing Lab	ICAR	31.03.07		8.60	-	-	-

B) Vehicles

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

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	12.06.2023
2	20.09.2023

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

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

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

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> • Availability of abundant land resources with organic enriched, black cotton fertile soil. • Farmers attraction and awareness toward cultivation of vegetables, floriculture and fruit. • Potential area for production of Wheat and Soybean due to suitable agro-ecological conditions. • Suitable climate condition for cattle, goat and poultry production. • The climate condition and soil of the A.E.S.- I are suitable for garlic production. The garlic variety of Riyawan Silver 	<ul style="list-style-type: none"> • Soil erosion by run off and acidity in the soil in all the region of the district. • Poor soil fertility management, unawareness about green manuring, composting etc. • Imbalance use of fertilizers and insecticide specially blind use of urea. • Reluctance of farmers towards modern varieties and their package of practices, faith in traditional seeds and way of farming. • Water level of the district remains very high during rain season. • Cultivation with very low input and unawareness/negligence for use of available natural resources. • Rampant use of diseased 	<ul style="list-style-type: none"> • Scope for promotion of organic farming and its trade at national & global level. • Promotion of Horticultural crops especially dragon fruit, Orange, Grapes & strawberry in various pockets of the district. • Good scope for promoting organic and natural vegetable production. • Favourable condition for cultivation of medicinal, spices and aromatic plants in the entire district. • Improvement in productivity by 	<ul style="list-style-type: none"> • Erratic rainfall (untimely and unseasonally) which causes soil loss, land slide and severe infestation of insect pests and diseases. • Frosty weather during winter which causes crop loss and attack of pests and diseases. • Attack of Neel Gaay on crops during crop season. • Farmers dependency on government schemes on agriculture,

<p>is one of the profitable and high marketable.</p> <ul style="list-style-type: none"> • Farmers having basic (traditional) knowledge of crop cultivation. • Availability of enough man power (labour), their nature of hard working and desirousness for learning. • Ever growing domestic market and urbanization. • The annual rainfall of Ratlam district is 992.90 mm. (Enough irrigation water are available). • Due to the presence of Neemuch spice and medicinal mandi near the district, farmers get good price for their crops. • Under the one district one product garlic is the one of the processed crop. 	<p>seedlings as a planting material.</p> <ul style="list-style-type: none"> • unusual and long spell of rainfall (untimely and unseasonal) caused land slide and soil erosion and due to this problem, communication and transport system paralyzed in the district. • Lack of awareness regarding soil testing. • Lack of knowledge on integrated management like –IPM, IPNM, IWM. • Reluctant to adopt HYVs of wheat because traditional wheat variety is much tastier than HYVs. (i.e. Preferences is mostly by taste of the variety) • Seed treatment is not in practice due lack of awareness. • Farmers having non commercial mindset, they are only dependant on traditional cultivation practices for crop production resulting in low productivity. • Unavailable suitable varieties for the location and their package of practices. • Lack of knowledge and awareness on the use of farm implements. • Insufficient government credit institution and its linkages with farming community. • Un availability of agriculture based enterprises. • Lack of proper channel of market and traditional way of selling the produce. 	<p>introduction of different location specific varieties and their packages of practices.</p> <ul style="list-style-type: none"> • Production and distribution of various disease free, certified seeds and planting materials. • Opportunity to promote micro-irrigation technology. • Scope of land reforms and reclamation through proper soil nutrient management. • The commencement of express way facility from Delhi to Mumbai farmers of the Ratlam district can have a good future, if they cultivated vegetable in a group. • Higher market potential due to nearest of two state border. • Good scope of establishing agriculture based industries and generation of employment. • Application of Post Harvest technology and value addition in the products. 	<p>horticulture and allied sectors.</p> <ul style="list-style-type: none"> • Higher rate of population growth 19.67 % approx. (decadal) which cause small size of land holding. • Urbanization of villages and migration of farm labours into the urban areas. • No fixation of price in agriculture produces and availability of proper markets.
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AES-2 (name)

Strength	Weakness	Opportunities	Threats
<ul style="list-style-type: none"> • Availability of abundant land resources with organic enriched, black cotton fertile soil. • Farmers attraction and awareness toward cultivation of vegetables, floriculture and fruit. • Potential area for production of Wheat, Chickpea, Cotton, Maize and Soybean due to suitable agro-ecological conditions. • Suitable climate condition for cattle, 	<ul style="list-style-type: none"> • Soil erosion by run off and acidity in the soil in all the region of the district. • Poor soil fertility management, unawareness about green manuring, composting etc. • Imbalance use of fertilizers and insecticide specially blind use of urea. • Reluctance of farmers towards modern varieties and their package of practices, faith in traditional seeds and way of farming. • Water level of the district remains very high during rain season. • Cultivation with very low input 	<ul style="list-style-type: none"> • Scope for promotion of organic farming and its trade at national & global level. • Promotion of Horticultural crops especially Custard Apple in Sailana and Bajana Block. • Good scope for promoting organic and natural vegetable production. • Favourable condition for cultivation of medicinal crops and and custard apple in Sailana and Bajana Block • Improvement in productivity by introduction of different location specific varieties and their packages of practices. 	<ul style="list-style-type: none"> • Erratic rainfall (untimely and unseasonally) which causes soil loss, land slide and severe infestation of insect pests and diseases. • Frosty weather during winter which causes crop loss and attack of pests and diseases. • Attack of Neel Gaay on crops during crop season. • Farmers

<p>goat and poultry production.</p> <ul style="list-style-type: none"> • Farmers having basic (traditional) knowledge of crop cultivation. • Availability of enough man power (labour), their nature of hard working and desirousness for learning. • Ever growing domestic market and urbanization. • The annual rainfall of Ratlam district is 992.90 mm. (Enough irrigation water are available). • Due to the presence of Neemuch spice and medicinal mandi near the district, farmers get good price for their crops. • Under the one district one product garlic is the one of the processed crop. 	<p>and unawareness/negligence for use of available natural resources.</p> <ul style="list-style-type: none"> • Rampant use of diseased seedlings as a planting material. • unusual and long spell of rainfall (untimely and unseasonal) caused land slide and soil erosion and due to this problem, communication and transport system paralyzed in the district. • Lack of awareness regarding soil testing. • Lack of knowledge on integrated management like –IPM, IPNM, IWM. • Reluctant to adopt HYVs of wheat because traditional wheat variety in much tastier than HYVs. (i.e. Preferences is mostly by taste of the variety) • Seed treatment is not in practice due lack of awareness. • Farmers having non commercial mindset, they are only dependant on traditional cultivation practices for crop production resulting in low productivity. • Unavailable suitable varieties for the location and their package of practices. • Lack of knowledge and awareness on the use of farm implements. • Insufficient government credit institution and its linkages with farming community. • Un availability of agriculture based enterprises. • Lack of proper channel of market and traditional way of selling the produce. 	<ul style="list-style-type: none"> • Production and distribution of various disease free, certified seeds and planting materials. • Opportunity to promote micro-irrigation technology. • Scope of land reforms and reclamation through proper soil nutrient management. • The commencement of express way facility from Delhi to Mumbai farmers of the Ratlam district can have a good future, if they cultivated vegetable in a group. • Higher market potential due to nearest of two state border. • Good scope of establishing agriculture based industries and generation of employment. • Application of Post Harvest technology and value addition in the products. 	<p>dependency on government schemes on agriculture, horticulture and allied sectors.</p> <ul style="list-style-type: none"> • Higher rate of population growth 19.67 % approx. (decadal) which cause small size of land holding. • Urbanization of villages and migration of farm labours into the urban areas. • No fixation of price in agriculture produces and availability of proper markets.
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Add AES if needed

Land Use Pattern

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

Irrigated Area with Different Sources:

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

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Deep Soil	It has a clayey texture and is very fertile in nature. The soil is rich in micro-nutrient. The pH of black soil range from 7.2 – 8.5 at 25°C. It is generally soft when wet but gets hard on dry. These soils are very fertile and are useful in the cultivation of various types of crops.	292.60
2	Medium deep soil	Soil surface is 20 to 36 inches from a layer that retards root development.	41.20
3	Shallow soil	Shallow soil have less than 50 cm depth of solum. Generally they have a thin A horizon over the bed rock or the parent material. They are highly erodible. Some soils are considered shallow ground water table so that root cannot penetrate those shallow layers.	151.60
4			

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Soybean	291939	156479	536
2	Cotton	18306	14645	800
3	Maize	23000	74198	3226
4	Black Gram	3148	1681	534
5	Green Gram	86	32	372
6	Pigeon pea	151	108	714
7	Wheat	214917	1076734	5010

8	Chickpea	37231	68654	1844
9	Lentil	2818	2282	810
10	Pea	3117	4114	1320
11	Mustard	3977	7290	1833
12	Linseed	1868	3027	1620

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	2	26.33	13.81
Feb, 22	0	29.97	17.21
Mar, 22	0	34.41	21.84
Apr, 22	0	28.82	26.43
May, 22	5	40.58	28.63
Jun, 22	124	36.79	27.64
July, 2022	353	30.69	24.95
Aug., 2022	462	28.9	23.42
Sept., 2022	175	30.29	22.9
Oct. 2022	88	32.6	22.68
Nov. 2022	0	30.47	19.57
Dec. 2022	0	27.34	15.38

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	322618	..... MT.	..... kg
Buffalo	172635	..... MT.	..... kg
Sheep			
<i>Crossbred/ Indigenous</i>	5928	..... MT wool	..... kg
Goats	204180	..... MT	..... kg
Pigs <i>Crossbred/ Indigenous</i>	2142	---	---
Rabbits			
Poultry			
Hens	142162	113.80 Lakh eggs	..... eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	..... (ha)	.....Q/ month	..... Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Ratlam	Ratlam	Kadarwasa	Soybean, Chickpea, Wheat, Garlic & Onion	Low Yield, Deficiency of micro-nutrient in animals, weed infestation, pod-borer in chickpea, high production cost due to imbalance use of fertilizer. Disease and pest infestation.	<ul style="list-style-type: none"> • Crop diversification and climate resilient technology. • Promotion for
2	Ratlam	Ratlam	Amodiya	Soybean, Chickpea, Wheat, Pea,	Low Yield, Deficiency of micro-nutrient in animals, weed infestation, pod-borer in chickpea, high production cost due to	

				Garlic & Onion	imbalance use of fertilizer. Weed infestation. Low milk and Meet production
3	Jaora	Jaora	Moriya	Soybean, Chickpea, Wheat, Garlic & Onion	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, High incidence of infertility in dairy cattle's.
4	Jaora	Jaora	Pipliya jodha	Soybean, Chickpea, Wheat, Garlic, Linseed & Onion	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, High incidence of infertility in dairy cattle's.
5	Piploda	Piploda	Bamnkhedi	Soybean, Chickpea, Wheat, Garlic, Lentil & Onion	Kitchen gardening for production of nutritional food by women farmers, less use of organic manure, Lack of awareness about nutritional food. Lack of knowledge about ICT tools.
6	Piploda	Piploda	Gudarkheda	Soybean, Chickpea, Wheat, Garlic, Onion & Nutritional Security	Low Yield, Deficiency of micro-nutrient in animals, weed infestation, pod-borer in chickpea, high production cost due to imbalance use of fertilizer. Weed infestation. Low milk and Meet production
7	Alot	Alot	Vikram gad	Soybean, Chickpea, Wheat, Mustard Garlic & Onion	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, High incidence of infertility in dairy cattle's.
8	Alot	Alot	Sisodiya pitha	Soybean, Chickpea, Wheat, Mustard Garlic & Onion & Dairy Farming	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure, High incidence of infertility in dairy cattle's.
9	Sailana	Sailana	Kariya	Soybean, Chickpea, Wheat, Vegetables, Goatry & Beekeeping	Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Low milk meat and egg production, Deficiency of micro nutrients in animals.
10	Sailana	Sailana	Rajapura mataji	Maize, Cotton, Soybean, Chickpea & Wheat	High production cost due to imbalance use of fertilizer, Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Low milk meat and egg production, Deficiency of micro

soil and water conservation – recharging tube well & dug well.

- Integrated nutrient and soil health management.
- Awareness for micro irrigation system and fertigation.
- Integrated pest & disease management and need based use of insecticide and fungicide for the management of insect pest and disease of different crops.
- Awareness and promotion of organic farming.
- Promotion of spices, vegetable, fruits, medicinal and floriculture.
- Cross breeding, grading and selective breeding of dairy cattle with feed management.
- Promotion of quality fodder production and availability of greens all the year ground.
- Promotion of improved farm implements to reduce labour cost input.

11	Bajna	Bajna	Umariya	Cotton, Maize, Wheat & Cucurbits	nutrients in animals. Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Low milk meat and egg production, Deficiency of micro nutrients in animals	<ul style="list-style-type: none"> • Promotion of post harvest management and effective marketing specially for horticulture crop produce. • Promotion of farmers organization through self help group and kisan club. • Women empowerment and drudgery reduction. • Integrated Farming System (IFS)
12	Bajna	Bajna	Raoti	Cotton, Maize, Wheat, Cucurbits & Poultry	Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Low milk meat and egg production, Deficiency of micro nutrients in animals	
13	Bajna	Bajna	Ratangarh	Cotton, Maize, Wheat & Cucurbits	Fall armyworm attack, Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management, Low milk meat and egg production, Deficiency of micro nutrients in animals	

Priority / Thrust Area

S.N.	Particulars
1	Crop diversification and climate resilient technology.
2	Promotion for soil and water conservation – recharging tube well & dug well
3	Integrated nutrient and soil health management
4	Awareness for micro irrigation system and fertigation.
5	Integrated pest & disease management and need based use of insecticide and fungicide for the management of insect pest and disease of different crops.
6	Awareness and promotion of organic and natural farming
7	Promotion of spices, vegetable, fruits, medicinal and floriculture.
8	Cross breeding, grading and selective breeding of dairy cattle with feed management.
9	Promotion of quality fodder production and availability of greens all the year round.
10	Promotion of improved farm implements to reduce labour cost input
11	Promotion of post harvest management and effective marketing specially for horticulture crop produce.
12	Promotion of farmers organization through self help group and kisan club.
13	Women empowerment and drudgery reduction.
14	Awareness and Promotion of Millets.
15	Integrated Farming System (IFS)

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
25	433	27	570

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
94	2255	399	10412

Seed Production (Qtl.)	Planting material (Nos.)
180	12900

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Nutritional Security	Wheat	Lack of Awareness about nutritious food , Poor intake of moringa in their regular diets, to inculcate knowledge on moringa & regular intake in their diets	Assessment of Impact of fortified wheat flour with moringa leaf powder for the improvement of nutritional status of farm women	<ul style="list-style-type: none"> Demonstration on Cultivation of Bio-fortified Wheat Crop Variety. Demonstration of Nutritional Kitchen garden at backyard 	<ul style="list-style-type: none"> Importance of fruits and vegetables in daily diet. Role of Nutritional Kitchen garden for nutritional security of family. 	-	Field Day	-
2	Nutritional Security	Enterprise	Lack of Awareness about nutritious food and poor sanitation & hygiene	Assessment of green leafy multigrain flour chapati for improvement of haemoglobin levels in farm women	Demonstration of Backyard poultry for Nutritional security	-	-	Field Day	-
3	Promotion of Millets crops	Pearl Millets	Lack of awareness regarding healthy food	Assessment on Consumption of Bio fortified Pearl Millet Crop Variety RHB – 234	-	<ul style="list-style-type: none"> Crop production technique & Recommended varieties of <i>Kharif</i> millets crops. Importance of millet crops. Nutritional benefits of millets and value addition. Importance of nutri cereals and miner millets for nutritional security. 	-	-	-
4	Women and Child Care	Enterprise	Lack of awareness regarding healthy food	Assessment of inclusion of Amylase Rich Food (ARF's) in porridge among weaning infants (0-5 Years)	-	Importance of balance diet for women and children's.	-	-	-

5	Varietal Evaluation of oilseed crops	Soybean	Low yield due to old variety	Assessment of soybean variety NRC - 130	-	<ul style="list-style-type: none"> Disease management in soybean crops. Integrated pest and disease management of Mustard crops. 	-	-	-
6	Productivity Enhancement	Soybean	Low yield due to old technology	Assessment of soybean production technology for higher productivity in soybean - chickpea cropping system	Demonstration of Soybean variety JS -2034	Crop production technique & Recommended varieties production technology of <i>Rabi</i> crops.	-	Field Day	-
7	Productivity Enhancement	Wheat / Chickpea	Low yield due to use of old technology	Assessment of Wheat Production technology in soybean – wheat cropping system	<ul style="list-style-type: none"> Demonstration of HYV variety of Wheat. Demonstration of high yielding chickpea variety RVG – 204 	Low cost storage techniques of pulses and cereals.	-	Field Day	-
8	Varietal Evaluation	Wheat	Low yield due to use of old variety.	Assessment of wheat variety HI-1636	-	-	-	-	-
9	Information Communication Technology	Enterprise	<ul style="list-style-type: none"> Lack of timely dissemination of agricultural messages Lack of timely available solution of the problems Unawareness about agricultural related news and events Lack of interaction of farmers with agricultural scientists and experts. 	Study on Mobile Apps in Dissemination of Agricultural Technology	-	Importance and use of different agricultural mobile apps for agricultural development	Awareness regarding Mobile Apps and Website related with agriculture.	-	-
10	Impact Assessment	Enterprise	Low Yield of Chickpea due to Weed infestation	Impact Study of Cluster Frontline Demonstration of Chickpea Technology	-	-	-	-	-
11	Varietal Evaluation of Vegetable crop	Okra	Low production due to many reasons.	Assessment of Lady Finger VRO - 22 (Kashi Kranti)	-	<ul style="list-style-type: none"> How To Improve vegetable fruit Quality in Ratlam. Summer cultivation of Okra & tomato for more income 	-	-	-
12	Varietal Evaluation of spice	Turmeric / Onion	Due to less area in the district	Assessment of Turmeric Variety – Selam	Demonstration of Onion Variety L-883	production techniques in Ginger & Turmeric	-	Field Day	-

	crop					crops			
13	Varietal Evaluation of spice crop	Coriander / Fenugreek	Low yield due to use of local variety.	Assessment of Coriander variety ACR – 02	Demonstration of Fenugreek (AFg-5)	Seed Processing in Seed Spices Crops	-	Field Day	-
14	Varietal Evaluation of spice crop	Garlic / Ajwain	Low yield due to use of local variety.	Assessment of Garlic variety Yamuna Purple – 404	Demonstration of Ajwain Variety AA-93.	Quality improvement of Onion & Garlic Crops	Processing Techniques in Tomato ,Garlic for More Income.	Field Day	-
15	Feed Management of Dairy Cattle	Enterprise	Low milk yield and income due to conventional ration feeding	Assessment of by pass protein on milk production in dairy Buffalo	Demonstration of Azola feeding for increase milk production.	-	-	Field Day	-
16	Feed Management of Dairy Cattle	Enterprise	Calcium deficiency and low fertility in high yielding dairy Buffalo	Assessment of oral calcium supplements and de-wormer on production and fertility in Buffalo	Demonstration of probiotic Saccharomyces cervices and liquid feed supplementation ostovet feeding in buffalo.	-	-	Field Day	-
17	Micro nutrient supplement	Enterprise	Low milk yield due to deficiency of mineral mixture in cattle after calving	Assessment of use of Mineral Mixture Supplementation in Dairy cattle	-	-	-	-	-
18	Micro nutrient supplement	Enterprise	High incidence of infertility in Cattle	Assessment of UMMB (Urea Mineral Molasses Block)animal feed supplementation to control the infertility in cattle	-	-	-	-	-
19	Indigenous Technical Knowledge	Enterprise	Low milk production.	Assessment of Use of Mixture of Ajwain, Fenugreek, Sugar and Pigeon pea to increase the milk production in cattle	Demonstration for control of white fly in soybean crops for use extract leaves of lantana camera.	-	-	Field Day	-
20	Pest Management	Soybean	Low yield of Soybean about 30-40 % losses due to heavy infestation of Girdle beetle (Area 120000 ha, Area affected 80%)	Assessment of Girdle Beetle Management in Soybean Crop.	<ul style="list-style-type: none"> • Demonstration on Management of girdle beetle and semilooper in Soybean. • Demonstration on Management of thrips in Kharif Onion. • Demonstration on Management of Aphind in Mustard. • Demonstration on 	<ul style="list-style-type: none"> • Integrated pest and disease management in rabi season. 	-	Field Day	-

					Management of pod borer in Chick pea				
21	Integrated Pest Management	Maize	Losses about 30-35 % due to heavy infestation of fall armyworm in Maize crop, infested area is of 8000 ha out of 23000 ha	Assessment of IPM module against fall armyworm in Maize	-	-	-	-	-
22	Integrated Disease Management	Tomato	Low yield of Tomato due to attack of early blight	Assessment of IDM against Early blight in Tomato	-	<ul style="list-style-type: none"> Integrated disease and pest management of chickpea crops. IPM and IDM in vegetable crops. 	-	-	-
23	Integrated Disease Management	Onion	Low yield of onion due to Incidence of Stemphyllium	Assessment on IDM Against stemphyllium disease in Onion	-	Integrated disease and pest management through cultural practices.	-	-	-
24	Integrated Nutrient Management	Maize	Farmers used urea two times only which reduce the efficiency of fertilizer	Assessment of split nitrogen application in Maize	-	<ul style="list-style-type: none"> INM IN Kharif Crops. NPK Fertilizer applications methods INM in Rabi Crops. 	-	-	-
25	Organic Farming / Natural Farming	Soybean / Chickpea	High Production Cost due to Chemical Fertilizer	Assessment of Liquid Organic Manure (Pachgava+Vermi wash) on Growth of Chickpea	Demonstration on NOVEL organic liquid Nutrient in Soybean	<ul style="list-style-type: none"> Use of Natural Product like Ghanjeevamrit & Geevamrit in Guava. Zero Budget natural farming system. Natural Farming Role of bio pesticide for crop pest management. DM through bio-control agents Role of PKVY Organic farming and its role in sustainable agriculture. Importance of Bio fertilizers and methods of application Vermicompost benefits & Application methods . 	-	Field Day	-
26	Promotion of Bio-fortified crop	Maize	-	-	Demonstration of Bio fortified maize variety IQMH-203	-	-	Field Day	-
27	Weed	Soybean /	-	-	• Demonstratio	• Weed	-	Field	-

	Management	Onion			n of grassy weed management in soybean • Demonstration of Weed Management in Onion Crop	management in <i>Kharif</i> crops. • Weed management in <i>Rabi</i> crops •		Day	
28	Livestock Production Management	Enterprise	-	-	Demonstration of proper care & management of kid mortality	• Management of dairy animal during cold weather for better milk production. • Kid management	-	Field Day	-
29	Promotion of quality fodder production	Barseem	-	-	Demonstration of high yielding Barseem variety J.B.S.C.-1 for production of green fodder	-	-	Field Day	-
30	Poultry Production	Enterprise	-	-	Improved Variety of Poultry Birds (Kadaknath)	• Brooding management in chicks. • Vaccination schedule in poultry • Importance disease of poultry : its causes and treatment		Field Day	

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber / Seed Spices Crops	TOTAL
Crop Production	2	2	-	-	-	-	-	-	-	4
Horticulture (Veg)	-	-	-	-	1	-	-	-	-	1
Horticulture (Spice)	-	-	-	-	-	-	-	-	3	3
Pest Management	-	1	-	-	-	-	-	-	-	1
Integrated Pest Management	1	-	-	-	-	-	-	-	-	1
Integrated disease Management	-	-	-	-	2	-	-	-	-	2
Soil Health and Fertility Management	1	-	1	-	-	-	-	-	-	2
TOTAL	4	3	1	-	3	-	-	-	3	14

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

Thematic areas	Cattle / Buffalo	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Livestock Production Management	4	-	-	1	-	-	-	5
TOTAL	4	-	-	1	-	-	-	5

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 : 1

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of soybean variety NRC - 130
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to old variety
Thematic area:	Crop Production
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers practice (JS-9560)
T2 –Recommended Practice-	Medium duration variety JS -2034 + RDF (NPKS 25:60:40:20)+ seed treatment (Carbendazim + mancozeb @2.5 gm/kg)+ culture (Rhizobium @ 10 ml/kg & PSB@ 10 ml/kg)
T3- Recommended Practice-	short duration variety NRC - 130 + RDF (NPKS 20:60:40:20) + seed treatment (Carbendazim + mancozeb @2.5 gm/kg)+ culture (Rhizobium @ 10 ml/kg & PSB@ 10 ml/kg)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IISR, Indore 2021
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 2

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Propaquizafop 2.5% + Imazethapyr 3.75% herbicide for control of mix weed flora in soybean
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy weed infestation
Thematic area:	Soybean- Wheat and IWM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	

T1 – Farmers Practice-	Imazethapyr 10 SL @ 1.0 lt/ha
T2 –Recommended Practice-	Propaquizafop 2.5% + Imazethapyr 3.75% @ 2.0 lt/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IISR, Indore
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 3

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of wheat variety HI- 1636
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of old variety.
Thematic area:	Crop Production
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers practice (Lok-1)
T2 –Recommended Practice-	HI- 1544+ RDF (NPKZn 120:60:40:20) + seed treatment (Carbendazim + mancozeb @2.5 gm/kg)+ culture (Azotobacter @ 10 ml/kg & PSB@ 10 ml/kg)
T3- Recommended Practice-	HI- 1636+ RDF (NPKZn 120:60:40:20) + seed treatment (Carbendazim + mancozeb @2.5 gm/kg)+ culture (Azotobacter @ 10 ml/kg & PSB@ 10 ml/kg)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IARI Wheat Regional Station, Indore 2021
Characteristics of technology:	-
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Irrigated

Detailed Information about OFT : 4

Name of Discipline	Agronomy	
Title of on-farm trial:	Assessment of Jiwamrit in Chickpea crop	
Year/Season:	Rabi 2023-24	
Farming situation:	Irrigated	
Problem diagnosis:	Deterioration of soil fertility due to continuous use of fertilizers	
Thematic area:	Chickpea-Soybean and Natural farming	
No of trials:	10	
No. of farmers involved	10	
Type of OFT (Assessment/ Refinement):	Assessment	
Details of technology selected for assessment/ refinement:		
T1 – Farmers Practice-	Use of Fertilizer	
T2 –Recommended Practice-	Use of 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	-	

Detailed Information about OFT : 5

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Lady Finger VRO - 22 (Kashi Kranti)

Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low production due to many reasons.
Thematic area:	Horticulture (Vegetable Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local
T2 –Recommended Practice-	Kashi Pragati
T3- Recommended Practice-	HYV (VRO – 22) YVMV / OLCV resistant
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIVR, Varanasi U.P. – 2011
Characteristics of technology:	-
Name of Crop/Enterprises:	Lady Finger
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 6

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Turmeric Variety – Selam
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Due to less area in the district
Thematic area:	Horticulture (Spice Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Roma
T2 –Recommended Practice-	Selam
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Coimbatore, T.N.
Characteristics of technology:	-
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-
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Detailed Information about OFT : 7

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Coriander variety ACR – 02
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety.
Thematic area:	Horticulture (Seed Spice Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Local
T2 –Recommended Practice-	ACR - 01
T3- Recommended Practice-	HYV (ACR – 02)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRCSS, Ajmer (Rajasthan) - 2018
Characteristics of technology:	Good Quality Seed Production
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 8

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Garlic variety Yamuna Purple – 404
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety.
Thematic area:	Horticulture (Spice Crops)
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Local
T2 –Recommended Practice-	G-323
T3- Recommended Practice-	Yamuna Purple – 404
Date of sowing:	-
Date of harvesting:	-

Source of technology:	NHRDF KARNAL - 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 9

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of bye pass protein on milk production in dairy Buffalo
Year/Season:	Kharif 2023
Farming situation:	-
Problem diagnosis:	Low milk yield and income due to conventional ration feeding
Thematic area:	Livestock Production Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Use of choker & cakes (conventional feed)
T2 –Recommended Practice-	Use of Bye- Pass protein @ 50 gm per animal per day after calving for three month
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IVRI, Izatnagar - 2009
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 10

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of oral calcium supplements and de-wormer on production and fertility in Buffalo
Year/Season:	Kharif 2023

Farming situation:	-
Problem diagnosis:	Calcium deficiency and low fertility in high yielding dairy Buffalo
Thematic area:	Livestock Production Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Traditional Practice
T2 –Recommended Practice-	Oral calcium supplement and de-worming
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal - 2003
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 11

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of use of Chelated Mineral Mixture Supplementation in Dairy cattle
Year/Season:	Rabi 2023-24
Farming situation:	-
Problem diagnosis:	Low milk yield due to deficiency of mineral mixture in cattle after calving
Thematic area:	Livestock Production Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	No use of mineral mixture
T2 –Recommended Practice-	Mineral mixture supplementation @ 50 gm per animal per day after calving up to 90 days.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDVSU, Jabalpur - 2014
Characteristics of technology:	-

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

Detailed Information about OFT : 12

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of mineralizes salt lick on growth performance of small ruminants.
Year/Season:	Rabi 2023-24
Farming situation:	-
Problem diagnosis:	Low growth rate
Thematic area:	Livestock Production Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Farmer practice not using any salt lick (Goat)
T2 –Recommended Practice-	Mineralized salt lick @ 1 lick/2 goats for two months
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TANVASU, 2020
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 13

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of Use of Mixture of Ajwain, Fenugreek, Sugar and Pigeon pea to increase the milk production in cattle (ITK)
Year/Season:	Rabi 2023-24
Farming situation:	-

Problem diagnosis:	Low milk production.
Thematic area:	Livestock Production Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Traditional Practice
T2 –Recommended Practice-	Use of 50g Ajwain, 150g Fenugreek, 500g Sugar and 500g Pigeon Pea in 1.0 lit. water give to animal twice a day upto 90 days
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ITK in Agriculture Document – 2, Page No. 331
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 14

Name of Discipline	Plant Protection
Title of on-farm trial:	Management of Girdle Beetle in Soybean Crop
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean about 30-40 % losses due to heavy infestation of Girdle beetle (Area 120000 ha, Area affected 80%)
Thematic area:	Pest Management
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Profenophos 50% EC @ 1.5 lit /ha at 30 days after sowing
T2 –Recommended Practice-	Chlorantraniliprole 18.5 % SC @ 150 ml/ha at 35 DAS
T3- Recommended Practice-	Thiacloprid 21.7 % SC @ 750 ml/ha at 35 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIB 2016
Characteristics of technology:	-

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

Detailed Information about OFT : 15

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module against fall armyworm in Maize
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Losses about 30-35 % due to heavy infestation of fall armyworm in Maize crop, infested area is of 8000 ha out of 23000 ha
Thematic area:	Integrated Pest Management
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Not aware about the pest
T2 –Recommended Practice-	Seed treatment with Chlorantraniliprole 19.8% + Thiamethoxam 19.8% @4 g/kg seed + Eraction of bird perches @ 25/ha + Installation of fugiperda pheromone trap @ 37/ha + Need based application of B.t. var. Kurstaki @ 1000 g/ha
T3- Recommended Practice-	Seed treatment with Chlorantraniliprole 19.8%+ Thiamethoxam 19.8% @4 g/kg seed +Eraction of bird perches @ 25/ha + Installation of fugiperda pheromone trap @ 37/ha + Need based application of Emamectin benzoate 5% S.G. @ 200 g/ha
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Gol, Vide letter O.M. No.F/13-160/2019-SD. IV, dated 06.05.2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 16

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IDM against Early blight in Tomato
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Tomato due to attack of early blight
Thematic area:	Integrated Disease Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	No use of integrated disease management module
T2 –Recommended Practice-	Seedling treatment with Trichoderma viridae@10ml/lit water + soil treatment with Thrichoderma species@ 5 Lt/ ha and need based foliar application of Trichoderma viridae @ 0.2% at the time 25 -30 DAP+ Tebuconazole 25.9%EC @ 0.1% at the time 40-45 day DAP and propiconazole 25% EC@ 0.1% at the time of 65-70 DAP
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 17

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment on IDM Against stemphyllium disease in Onion
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Low yield of onion due to Incidence of Stemphyllium
Thematic area:	Integrated Disease Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	No use of Integrated Disease Management.

T2 –Recommended Practice-	Summer deep ploughing + Seed treatment with carbendazim 12%+ Mancozeb 63% @2.5 g/kg seed + Soil application of Trichoderma spp @5L/ha + Need based foliar application of Tabuconazole 50 + Trifloxystribin 25 % W/W 75 WG @300g/ ha at the time 20-25 DAS and Tabuconazole 10% + Sulphur 65%@ 1 kg/ha @ the time 45 -50 Days.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCIPM 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT : 18

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of split nitrogen application in Maize
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Farmers used urea two times only which reduce the efficiency of fertilizer
Thematic area:	Soil Health and Fertility management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Apply urea two times only which reduce the efficiency of fertilizer.
T2 –Recommended Practice-	Nitrogen application Three times. (i) Basal Dose (50% RDF) (ii) Knee height stage (25% RDF) (iii) Tesseling Stage (25% RDF)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-IIMR-Ludhiana – 2011
Characteristics of technology:	-
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-
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Detailed Information about OFT : 19

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Liquid Organic Manure (Pachgava+ Vermiwash) on Growth of Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	High Production Cost due to Chemical Fertilizer
Thematic area:	Soil Health and Fertility management
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment / refinement:	
T1 – Farmers Practice-	Application of DAP and Urea.
T2 –Recommended Practice-	Application of Pachgava 3% at 25 & 40 DAS
T3- Recommended Practice-	T2 + Application Vermi wash 10% at 25 & 40 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Prakratik Krishi - Book Author Shri Acharya Devvratji, Hon. Governor, State of Gujarat – 4 th Edition 2019
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT : 1

Title	Study on Mobile Apps in Dissemination of Agricultural Technology
Season & Year	Kharif 2023
Problem identified	<ul style="list-style-type: none"> • Lack of timely dissemination of agricultural messages • Lack of timely available solution of the problems • Unawareness about agricultural related news and events • Lack of interaction of farmers with agricultural scientists and experts.
Thematic Area	Capacity Building
Farming situation	-
Name of Technology Intervention under study	Selection of different Mobile Apps developed by ICAR Institute and SAUs.
Farmers Practice	100

No. of replication (Farmers)	
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Results / findings

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

Information about Extension OFT : 2

Title	Impact Study of Cluster Frontline Demonstration of Chickpea Technology
Season & Year	Rabi 2022-23
Problem identified	Low Yield of Chickpea due to Weed infestation
Thematic Area	Low Yield of Chickpea due to Weed infestation
Farming situation	-
Name of Technology Intervention under study	Impact study on important technology demonstrated through CFLD.
Farmers Practice	No adoption of Technology
No. of replication (Farmers)	100

Results / findings

Performance indicators/ parameters	Unit/ details
<ul style="list-style-type: none"> • Technology Gap will be measured as Potential Yield Demonstration Yield. • Extension Gap will be measured as Demonstration yield farmer's yield. • Extension Index (%) will be measured as (Technology Gap / extension Gap) x 100 	

Information about Home Science OFT : 1

Title of on-farm trial:	Assessment of Impact of fortified wheat flour with moringa leaf powder for the improvement of nutritional status of farm women
Year/Season:	Kharif 2023
Problem diagnosis:	Lack of Awareness about nutritious food , Poor intake of moringa in their regular diets, to inculcate knowledge on moringa & regular intake in their diets
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	3

No. of farmers/farm women involved	21
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Only wheat flour
T2 –Recommended Practice	wheat+ soya flour (9:1)
T3 –Recommended Practice	wheat+ soya flour (9:1) + moringa leaf powder
Source of technology:	P. Kumari & Md. Mustafa, The Pharma Innovation Journal 2022; SP-11(11): 247-250 (2022)
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT : 2

Title of on-farm trial:	Assessment on Consumption of Bio fortified Pearl Millet Crop Variety RHB – 234
Year/Season:	Kharif 2023
Problem diagnosis:	Lack of awareness regarding healthy food
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	07
No. of farmers/farm women involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Non- Consumption of Pearl Millet
T2 –Recommended Practice	Consumption of Pearl Millet Crop
T3 –Recommended Practice	Consumption of Bio-fortified Pearl Millet Crop Variety RHB - 234
Source of technology:	ICAR (2017)
Characteristics of technology:	-
Name of Crop/Enterprises:	Pearl Millet
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-
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Information about Home Science OFT : 3

Title of on-farm trial:	Assessment of inclusion of Amylase Rich Food (ARF's) in porridge among weaning infants (0-5 Years)
Year/Season:	Rabi 2023-24
Problem diagnosis:	Lack of awareness regarding healthy food
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	3
No. of farmers/farm women involved	21
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Durum wheat + ARF powder prepared from mung
T2 –Recommended Practice	Consumption of porridge prepared from durum wheat var.
T3 –Recommended Practice	Consumption of porridge prepared from durum wheat variety + inclusion of ARF powder prepared from mung
Source of technology:	TNAU (2016)
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT : 4

Title of on-farm trial:	Assessment of green leafy multigrain flour chapati for improvement of haemoglobin levels in farm women
Year/Season:	Rabi 2023-24
Problem diagnosis:	Lack of Awareness about nutritious food and poor sanitation & hygiene
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	3
No. of farmers/farm women involved	21
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Wheat + soya flour + Besan (1:1:1) + seasonal green leafy vegetables

T2 –Recommended Practice	Wheat + soya flour + Makki atta (1:1:1) + seasonal green leafy vegetables
T3 –Recommended Practice	Wheat + besan + Makki atta (1:1:1) + seasonal green leafy vegetables
Source of technology:	KVK Jalandhar (2016)
Characteristics of technology:	-
Name of Crop/Enterprises:	Enterprises
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Soybean	Crop Production	HYV (JS-2034)	Seed and Seed Treatment	Kharif 2023	4.0	10	Yield (q/ha), Test Wt. (g)
2	Soybean	Crop Production	Demonstration of weedicide Imazathapyr 35 % WG + Imazamox 35 % WG (70% WG) @ 100 gm A.I./ha at 15 to 20 DAS	Weedicide	Kharif 2023	4.0	10	Yield (q/ha), Test Wt. (g)
3	Soybean	Integrated Nutrient Management	NOVEL organic liquid nutrient solution by dissolving in 3 ml per liter of water. First spray at the time of flowering and second spray at the time of pod formation	NOVEL organic liquid	Kharif 2023	5.0	10	Yield (q/ha), B.C. Ratio
4	Soybean	Indigenous Technology Knowledge	5 % spray of lantana camera's leaf extract after 20-25 days sowing and repeat 2 -3 times 7 – 8 day interval	Extract leaves of lantana camera	Kharif 2023	5.0	10	Yield (q/ha)
5	Onion	Horticulture (Spice Crop)	Quizalofop ethyl 5% E.C. 1 lit./ha	Weedicide	Kharif 2023	5.0	10	No. of Weeds /sq.m., Yield (q/ha), Bulb wt./plant
6	Onion	Horticulture (Spice Crop)	HYV L-883	Seed	Kharif 2023	5.0	10	Yield (q/ha), Bulb wt./plant
7	Enterprise	Livestock Production	Azola culture technology and feeding 200 to 400 gm/ day/	Azolla Seed	Kharif 2023	-	10	Milk yield (lit.), SNF (%), Fat (%),

		Management	animal along with concentrate for 90 days.					B:C Ratio
8	Enterprise	Livestock Production Management	30 gm yeast culture probiotic + 100 gm liquid feed ostovet feeding (production of volatile fatty acids, reduction of methane production, Decreased ammonia production, stability of the PH, Increased total anaerobic flora) in dairy Buffalo	Probiotic + liquid feed	Kharif 2023	-	10	Milk yield (lit.), SNF (%), Fat (%), B:C Ratio
9	Soybean	Pest Management	Chlorantraniliprole 18.5% SC 150 ml/ha against girdle beetle and semi-looper	Insecticide	Kharif 2023	5.0	10	Yield (q/ha), Infected plant/m ² ,B:C Ratio
10	Onion	Pest Management	Lambda cyhalothrin 5% EC 250 ml/ha for thrips	Insecticide	Kharif 2023	5.0	10	Yield (q/ha), Infected plant/m ² ,B:C Ratio
11	Maize	Nutritional security	Bio fortified Variety maize variety IQMH-203	Seed	Kharif 2023	2.5	10	Per capita consumption and availability of nutrients, BMI
12	Wheat	Crop Production	HYV (HI-8759)	Seed and Seed Treatment	Rabi 2023-24	4.0	10	Yield (q/ha), Test Wt. (g)
13	Chickpea	Crop Production	HYV (RVG-204)	Seed and Seed Treatment	Rabi 2023-24	4.0	10	Yield (q/ha), Test Wt. (g)
14	Fenugreek	Horticulture (spice)	HYV (AFg-5)	Seed and Seed Treatment	Rabi 2023-24	5.0	10	Yield (q/ha), No. of pods/plant
15	Ajwain	Horticulture (spice)	HYV (AA-93)	Seed and Seed Treatment	Rabi 2023-24	5.0	10	Yield (q/ha), No. of umbles/plant
16	Enterprise	Livestock Production Management	Barseem HYB – J.B.S.C.-1	Seed	Rabi 2023-24	-	10	No. of cutting, Yield q/ha, B:C ratio
17	Mustard	Pest Management	Imidachloprid 17.8% SL 150 ml/ha against Mustard Aphid	Insecticide	Rabi 2023-24	5.0	10	Yield (q/ha), Infected plant/m ² ,B:C Ratio
18	Chickpea	Pest Management	Emamectin benzoate 5% SG @ 220 g/ha	Insecticide	Rabi 2023-24	5.0	10	Yield (q/ha), Infected plant/m ² ,B:C Ratio
19	Wheat	Nutritional security	Pusa Tejas	Seed	Rabi 2023-24	-	10	Per capita consumption, Nutrient availability, BMI
20	Vegetable Mini Kit	Nutritional security	Nutritional Kitchen Garden	Vegetable Mini Kit	Rabi 2023-24	-	10	Production 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	15	September, Feb.	375
2	Farmers Training	22	June, Oct., Feb.	440
3	Media coverage	35	-	Mass
4	Training for	-	-	-

	extension functionaries			
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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	Improved breed Kadaknath	10	50	Bird	No. of Eggs Income	-	-
Poultry	Improved Variety of Poultry Birds – Kadaknath(reared in backyard / intensive rearing system)	10	50	Bird	Av. Body Wt, Av. Egg production /month (number) and B:C ratio		

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Crop Production	High Yield Variety	Seed + Seed Treatment	Kharif 2023	20	50	Yield (q/ha)
2	Mustard	Crop Production	High Yield Variety	Seed + Seed Treatment	Rabi 2023-24	30	75	Yield (q/ha)
3	Linseed	Crop Production	High Yield Variety	Seed + Seed Treatment	Rabi 2023-24	30	75	Yield (q/ha)
4	Chickpea	Crop Production	High Yield Variety	Seed + Seed Treatment	Rabi 2023-24	30	75	Yield (q/ha)
5	Lentil	Crop	High Yield	Seed + Seed	Rabi 2023-24	30	75	Yield (q/ha)

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology	1	3	-	-	-	-	-	-	25
Total	1	3	-	-	-	-	-	-	25
g) Medicinal and Aromatic Plants									
Production and management technology	1	3	-	-	-	-	-	-	25
Other (Natural Farming)	1	3	-	-	-	-	-	-	25
Total	2	6	-	-	-	-	-	-	50
Grand total (Horticulture)	8	24	-	-	-	-	-	-	200
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management	2	6	-	-	-	-	-	-	50
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Other (Natural Farming)	2	6	-	-	-	-	-	-	50
Total	4	12	-	-	-	-	-	-	100
IV Livestock Production and Management									
Dairy Management	2	6	-	-	-	-	-	-	50
Poultry Management	1	3	-	-	-	-	-	-	25
Disease Management									
Feed management									
Production of quality animal products									
Other (Natural Farming)									
Total	3	9	-	-	-	-	-	-	75
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and	01	03	-	-	-	-	-	-	25

ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops									
f) Spices	2	4	-	-	-	-	-	-	50
g) Medicinal and Aromatic Plants									
Other (Natural Farming)									
III Soil Health and Fertility Management									
Soil fertility management	2	4	-	-	-	-	-	-	50
Soil and Water Conservation									
Integrated Nutrient Management	1	2	-	-	-	-	-	-	25
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency	1	2	-	-	-	-	-	-	25
Soil and Water Testing									
Other (Natural Farming)									
IV Livestock Production and Management									
Dairy Management	6	12	-	-	-	-	-	-	150
Poultry Management	2	4	-	-	-	-	-	-	50
Disease Management									
Feed management									
Production of quality animal products									
Other (Natural Farming)	2	4	-	-	-	-	-	-	50
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	02	04	-	-	-	-	-	-	50
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing	01	02	-	-	-	-	-	-	25
Gender mainstreaming through SHGs									
Storage loss minimization techniques	01	02	-	-	-	-	-	-	25
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies	01	02	-	-	-	-	-	-	25
Rural Crafts									
Women and child care									
Other (Natural Farming)	02	04	-	-	-	-	-	-	50

(Quality milk production)										
Total	07	14	-	-	-	--	-	-	-	175
VI Agril. Engineering										
VII Plant Protection										
Integrated Pest Management	2	4	-	-	-	-	-	-	-	50
Integrated Disease Management	2	4	-	-	-	-	-	-	-	50
Bio-control of pests and diseases	1	2	-	-	-	-	-	-	-	25
Production of bio control agents and bio pesticides										
Other (Natural Farming)	1	2	-	-	-	-	-	-	-	25
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	1	2	-	-	-	-	-	-	-	25
Formation and Management of SHGs	1	2	-	-	-	-	-	-	-	50
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Other (Natural Farming and Others)	4	8	-	-	-	-	-	-	-	100
XI Agro-forestry										
XII Others (Pl. Specify)										
TOTAL										
(B) RURAL YOUTH										
Production of organic inputs										
Sheep and goat rearing										
TOTAL										
(C) Extension Personnel										
TOTAL										

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Client ele	Title of the training programme	Durati on in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Feb.	F/FW	Seed production technique in summer green gram.	3	-	-	-	-	-	-	25
March	F/FW	Natural Farming	3	-	-	-	-	-	-	25

June	F/FW	Crop production technique & Recommended varieties of <i>Kharif</i> crops	3	-	-	-	-	-	-	25
Oct.	F/FW	Crop production technique & Recommended varieties production technology of <i>Rabi</i> crops	3	-	-	-	-	-	-	25
Horticulture										
Jan.	F/FW	HI-Tech production technology of Sweet peppers in Polyhouse	3	-	-	-	-	-	-	25
Feb.	F/FW	Use of Natural Product like Ghanjeevamrit & Geevamrit in Guava	3	-	-	-	-	-	-	25
August	F/FW	Potato cultivation techniques in Ratlam district	3	-	-	-	-	-	-	25
December	F/FW	Seed Processing in Seed Spices Crops	3	-	-	-	-	-	-	25
Livestock production										
January	F/FW	Management of Livestock in Winter	3	-	-	-	-	-	-	25
February	F/FW	Management of dairy animal during cold weather for better milk production.	3	-	-	-	-	-	-	25
March	F/FW	Brooding management in chicks.	3	-	-	-	-	-	-	25
Home Science										
Feb.	FW	Nutritional benefits of millets and value addition.	3	-	-	-	-	-	-	25
March	FW	Low cost and high protein diet for childrens.	3	-	-	-	-	-	-	25
May	FW	Importance of balance diet for women and childrens.	3	-	-	-	-	-	-	25
October	FW	Natural farming	3	-	-	-	-	-	-	25
November	FW	Importance of nutri cereals and miner millets for nutritional security.	3	-	-	-	-	-	-	25
Plant Protection										
Feb.	F/FW	Integrated disease and pest management of chickpea crops.	3	-	-	-	-	-	-	25
Aug	F/FW	Disease management in soybean crops.	3	-	-	-	-	-	-	25
Dec.	F/FW	Natural Farming	3	-	-	-	-	-	-	25
June	F/FW	IDM in bio-control agents	3	-	-	-	-	-	-	25
Jan.	F/FW	Integrated pest and disease management in rabi season.	3	-	-	-	-	-	-	25
June	F/FW	Plant protection measures in <i>Kharif</i> season crops	3	-	-	-	-	-	-	25
Agriculture Extension (Capacity Building and Group Dynamics)										
April	F/FW	Importance role of	3	-	-	-	-	-	-	25

		leadership for agriculture development								
June	F/FW	Importance and use of different agricultural mobile apps for agricultural development	3	-	-	-	-	-	-	25
June	F/FW	Different technological intervention and its importance for doubling income of the farmers.	3	-	-	-	-	-	-	25
Sept.	F/FW	Integrated farming system and its importance in sustainable agriculture development.	3	-	-	-	-	-	-	25
Oct.	F/FW	Organic farming and its role in sustainable agriculture.	3	-	-	-	-	-	-	25
Oct.	F/FW	Farm records keeping and its importance for estimating cost of cultivation.	3	-	-	-	-	-	-	25
Soil Science										
June	F/FW	Natural Farming	3	-	-	-	-	-	-	25
July	F/FW	INM IN Kharif Crops	3	-	-	-	-	-	-	25
September	F/FW	Natural Farming	3	-	-	-	-	-	-	25
November	F/FW	INM in Rabi Crops	3	-	-	-	-	-	-	25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jan.	F/FW	Zero Budget natural farming system	2	-	-	-	-	-	-	25
April	F/FW	Post-harvest technology for <i>Rabi</i> crops	2	-	-	-	-	-	-	25
May	F/FW	Land preparation for <i>kharif</i> crops	2	-	-	-	-	-	-	25
July	F/FW	Importance of millet crops	2	-	-	-	-	-	-	25
Aug.	F/FW	Weed management in <i>Kharif</i> crops	2	-	-	-	-	-	-	25
Sept.	F/FW	Post-harvest technology for <i>Kharif</i> crops	2	-	-	-	-	-	-	25
Nov.	F/FW	Weed management in <i>Rabi</i> crops	2	-	-	-	-	-	-	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Dec.	F/FW	Seed production technique in rabi crops	2	-	-	-	-	-	-	25
Horticulture										
Feb.	F/FW	HI-Tech production technology of Cucumber	2	-	-	-	-	-	-	25
March	F/FW	How To Improve vegetable fruit Quality in Ratlam	2	-	-	-	-	-	-	25
April	F/FW	Summer cultivation of Okra & tomato for more income	2	-	-	-	-	-	-	25
May	F/FW	Suitable time & methods of pruning in Ber Plants	2	-	-	-	-	-	-	25
June	F/FW	How to prepare good quality seedling in net shade house	2	-	-	-	-	-	-	25
July	F/FW	production techniques in Ginger & Turmeric crops	2	-	-	-	-	-	-	25
October	F/FW	Quality improvement of Citrus & Mandarin Crops	2	-	-	-	-	-	-	25
November	F/FW	Quality improvement of Onion & Garlic Crops	2	-	-	-	-	-	-	25
Livestock production										
April	F/FW	Importance disease of poultry : its causes and treatment	2	-	-	-	-	-	-	25
May	F/FW	Vaccination schedule in poultry	2	-	-	-	-	-	-	25
June	F/FW	Natural Farming	2	-	-	-	-	-	-	25
July	F/FW	Kid management	2	-	-	-	-	-	-	25
August	F/FW	Vaccination schedule in cattle and buffalo	2	-	-	-	-	-	-	25
September	F/FW	Milk Fever : its causes and treatment	2	-	-	-	-	-	-	25
October	F/FW	Ketosis : its causes and treatment	2	-	-	-	-	-	-	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
October	F/FW	Natural Farming	2	-	-	-	-	-	-	25
November	F/FW	Mastitis : its causes and treatment	2	-	-	-	-	-	-	25
December	F/FW	Trypanosomias : its causes and treatment	2	-	-	-	-	-	-	25
Home Science										
January	F/FW	Importance of fruits and vegetables in daily diet.	2	-	-	-	-	-	-	25
April	F/FW	Low cost storage techniques of pulses and cereals.	2	-	-	-	-	-	-	25
June	F/FW	Role of Nutritional Kitchen garden for nutritional security of family.	2	-	-	-	-	-	-	25
July	F/FW	Natural farming	2	-	-	-	-	-	-	25
August	F/FW	Importance and use of women's friendly tools for drudgery reduction.	2	-	-	-	-	-	-	25
September	F/FW	Clean milking for quality production.	2	-	-	-	-	-	-	25
December	F/FW	Prevention of nutrient losses in food preparation.	2	-	-	-	-	-	-	25
Plant Protection										
March	F/FW	Natural Farming	2	-	-	-	-	-	-	25
Sep	F/FW	Integrated disease and pest management of cotton.	2							25
April	F/FW	Role of bio pesticide for crop pest management.	2							25
May	F/FW	Integrated disease and pest management through cultural practices.	2							25
Dec.	F/FW	Integrated pest and disease management of Mustard crops.	2							25
Nov	F/FW	IPM and IDM in vegetable crops	2							25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Agriculture Extension (Capacity Building and Group Dynamics)										
March	F/FW	Natural Farming	2	-	-	-	-	-	-	25
Feb.	F/FW	Role of PKVY	2	-	-	-	-	-	-	25
May	F/FW	Role of Self help group CFG (Farmers Club)	2	-	-	-	-	-	-	25
July	F/FW	Central Sponsored scheme like PMFBY, PSSY	2	-	-	-	-	-	-	25
Aug.	F/FW	Natural Farming	2	-	-	-	-	-	-	25
Dec.	F/FW	How to build a farmers production organization & its utility	2	-	-	-	-	-	-	25
Soil Science										
January	F/FW	Importance of Biofertilizers and methods of application	2	-	-	-	-	-	-	25
February	F/FW	Vermi-compost benefits & Application methods	2	-	-	-	-	-	-	25
March	F/FW	Crop residues Management	2	-	-	-	-	-	-	25
August	F/FW	NPK Fertilizer applications methods	2	-	-	-	-	-	-	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										
Aug to Dec.	RY	Integrated farming system for higher sustainability and productivity	5	-	-	-	-	-	-	12
Horticulture										
January	RY	Processing Techniques in Turmeric crops	5	-	-	-	-	-	-	15
Livestock production										
Feb.	RY	Goat Rearing	5	-	-	-	-	-	-	20

Month/ Tentative Date	Clientel e	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Mal e	Female	Total	Male	Female	Total	
Home Science										
January	RY	Different method of preservation and value added product of fruits.	5	-	-	-	-	-	-	20
Plant Protection										
June	RY	Mushroom Production Technique	5	-	-	-	-	-	-	15
Agriculture Extension (Capacity Building and Group Dynamics)										
March	RY	Entrepreneurship development for farmers and rural youth in Rural development	5	-	-	-	-	-	-	15
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										
Oct.	EF	Production technology of <i>Rabi</i> crops	2	-	-	-	-	-	-	30
June	EF	Production technology of <i>Kharif</i> crops	2	-	-	-	-	-	-	30
Horticulture										
May	EF	Processing Techniques in Tomato ,Garlic for More Income	2	-	-	-	-	-	-	30
Livestock production										
April	EF	Major reproductive disorder of female animal	2	-	-	-	-	-	-	30
Home Science										
April	EF	Prevention of micronutrient deficiencies among children & adolescence girls.	2	-	-	-	-	-	-	30
Plant Protection										

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Soil test campaigns	6	-	-	-	-	-	-	-	-	206
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	2	-	-	-	-	-	-	-	-	66
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	6	-	-	-	-	-	-	-	-	456
Others (Live Telecast / Awareness Programme)	11	-	-	-	-	-	-	-	-	544
Total	399	-	-	-	-	-	-	-	-	10412

Target for Production and supply of Technological products

SEED MATERIALS

Crop Category	Name of Crop	Name of Variety	Quantity (qt.)
Pulses	Chickpea	RVG – 202	20
Pulses	Chickpea	RVG - 204	20
Pulses	Lentil	IPL-316	10
Oilseed	Mustard	RH - 725	5
Oilseed	Linseed	Pratap – 2	5
Oilseed	Tarameera	RTM – 314	15
Oilseed	Mustard	DRMR-1165-40	5
Oilseed	Soybean	RVS 2001-4	50
Oilseed	Soybean	RVSM-1135	50

PLANTING MATERIALS

Major group/class	Name of Crop	Name of Variety	Nos.
Spice	Onion	AFLR, Bhima Super, Bhima Subhra	1500
Vegetable	Tomato	Hybrid	1000
Spice	Chilli	Hybrid	1000
Fruit	Mango grafted	Langda, Dussheri, Amrapali, Kesar	100
Fruit	Mango Desi	Desi	1000
Fruit	Lemon	Kagzi lemon	500
Fruit	Guava	Allhabadi Safeda	500
Fruit	Karonda	Desi	500
Fruit	Jackfruit	Desi	1000
Fruit	Aonla	Desi	100
Forestry	Ashok	Desi	750
Forestry	Tikoma	Desi	500
Forestry	Cassia sama	Desi	100
Forestry	Sesum	Desi	500
Forestry	Neem	Desi	500
Forestry	Bamboo	Desi	200
Forestry	Karanj	Desi	500

Forestry	Gulmohar	Desi	200
Ornamental	Duranta golden	Desi	1000
Ornamental	Duranta brown	Desi	1000
Ornamental	Rose cutting	Desi	50
Ornamental	Others - Meetha neem, Bouganvillea, Mogra, Paras peepple, Ornamental cutting	Desi	400

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>	-	2000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

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

Literature to be Developed/Published

KVK News Letter

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

Details of Electronic Media to be Produced

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

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	<ul style="list-style-type: none"> Identified need for during scientist visit to farmers field. During the discussion in Kisan Gosthi. Suggestion received during SAC meeting from linkage department, progressive farmers. Ex. Trainee Sammelan
2	Rural Youth	<ul style="list-style-type: none"> Identified need for during scientist visit to farmers field. During the discussion in Kisan Gosthi. Suggestion received during SAC meeting from linkage department, progressive farmers.
3	In-service personnel	<ul style="list-style-type: none"> Suggestion received during SAC meeting from linkage department, progressive farmers.
4	methodology for identifying OFTs/FLDs	<ul style="list-style-type: none"> Identified need for during scientist visit to farmers field (Field level observation). New variety / Technology. Poor yield at farmers level. During the discussion in Kisan Gosthi. Suggestion received during SAC meeting from linkage department, progressive farmers. Ex. Trainee Sammelan. Base Line Survery. According to Agro-ecological situation. Suggestion received during scientist – farmers interface. Valuable Suggestion received from ICAR-ATARI, Zone – IX, Jabalpur
5	Matrix ranking	<ul style="list-style-type: none"> Rank I - methodology for identifying OFTs/FLDs Rank II - Identification of courses for farmers/farm women Rank III - Rural Youth Rank IV - In-service personnel

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Moriya	Jaora	20
2	Pipliya jodha	Jaora	15
3	Bamnkhedhi	Piploda	55
4	Gudarkheda	Piploda	32
5	Kariya	Sailana	36
6	Rajapura mataji	Sailana	65
7	Umariya	Bajna	85
8	Raoti	Bajna	76

9	Ratangarh	Bajna	70
10	Vikram gad	Alot	60
11	Sisodiya pitha	Alot	70
12	Kadarwasa	Ratlam	36
13	Amodiya	Ratlam	70

1. No. of farm families selected per village : 20

2. No. of survey/PRA to be conducted : 5

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment :2008

List of equipments purchased :

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Farmers Welfare and Agriculture Department, Ratlam (M.P.)	Farmer training, in-service training and crop inspection will be done in collaboration with the Agriculture Department.
Department of Horticulture, Ratlam (M.P.)	Farmer training, in-service training and crop inspection will be done in collaboration with the Horticulture Department.
Farmers Training Centre, Jaora, Ratlam (M.P.)	Farmers training will be given in collaboration with Farmers Training Center, Jaora.
Department of Veterinary Service, Ratlam	A.I. Camp and A.H. Camps will be organized.
M.P Sate Seed Corporation, Jaora, Ratlam	Seed production programs will be taken in collaboration with the Seed Corporation.
K.N.K. College of Horticulture, Mandsaur	Technical guidance and cooperation will be taken from the college.
Jan Shikshan Sansthan, Ratlam (M.P.)	Cooperation in training will be taken from this institute.

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

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Convergence	Jointly Exposure Visit Organized

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes – NICRA Project

Month	Activity details	Targeted Beneficiaries / Area /Coverage
January	Training (P.P.), Field Day (Chickpea)	50
February	Training (PHM), Chicks distribution, Field Day (Wheat)	80
March	Training (PHM), Goatry Unit distribution, Animal Health Camp, Soil Testing	150
April	Training (NRM), Crop Residue incorporation through plough and de-silting of old dug well	100
May	Training (NRM), Crop Residue incorporation through plough and de-silting of old dug well	100
June	Training (NRM), Training (LPM), Bori bandhan	45
July	Training (P.P.), Kharif Seed distribution, Green manure Azola distribution, Napier grass distribution	45
August	Training (P.P., N.R.M. & L.P.M.), Animal Health Camp	120
September	Training (P.H.M.), Field Day (Soybean)	50
October	Training, Rabi seed distribution (Wheat, Chickpea, Linseed,	75

	Mustard)	
November	Training (L.P.M.), Training on IPM & IDM	45
December	Training (L.P.M) and Other Extension Activities	50

Planning for Crop Cafeteria

Total Area of Crop cafeteria : 1539 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS – 2069	Matures in 93-95 days, high yielding (25-28 q ha ⁻¹), Multiple Resistant to diseases. No shattering and lodging observed	5.0 X 5.4
Soybean	Kharif	JS – 2034	Extra early, thermo-insensitive, high germinability, multiple resistant, dwarf, glabrous, pod colour light & maturity period : 87-88 , Yield : 20-25 q/h	5.0 X 5.4
Soybean	Kharif	J.S. – 2098	Grain size spherical, medium (bold) 100 grains weighing 10.2 g, grain type yellow, shiny, nucleus (hyalam) black, germination capacity 80 to 90%, plant type middle high variety, height about 46 to 55 cm yield – 20- 30 q/ha	5.0 X 5.4
Soybean	Kharif	RVS 2001-04	white flowers, without bracts, with brownish umbels. Tolerant to girdle beetle and semi looper and foliar diseases, root diseases and diseases of legumes Maturity: 104 days, yield – 26-28 q/ha	5.0 X 5.4
Soybean	Kharif	JS – 2029	Early maturity high yielding medium pod color, medium tall, flower color white, bold seed.	5.0 X 5.4
Soybean	Kharif	NRC – 127	First Kunitz Trypsin Inhibitor (KTI) free Soybean Variety Grain Maturity: 104 days, yield: 18.0 q/ha	5.0 X 5.4
Soybean	Kharif	NRC –128	Semi-determinate with Tall plant height (62 cm), purple flowers, pointed ovate green leaf, pubescence on stem, leaves and pods, spherical yellow seed with dark brown hilum, Resistance to pod blight.	5.0 X 5.4
Soybean	Kharif	NRC –130	Erect and determinate with medium plant height (47 cm),, dark green leaves, purple flower, glabrous, light yellow & round and bold seeds with yellow hilum with one brown spot on micropile.	5.0 X 5.4
Soybean	Kharif	NRC –138	Small growth, white flowers, dark brown flowers, these and brown flowers. Pod blight, moderately resistant to target leaf spot while varieties resistant to yellow mosaic virus, but not to neck rot, aerial blight.	5.0 X 5.4
Soybean	Kharif	NRC –142	The country's first variety of Kuni Tze Tripsy Niinhi Bitter and Laipo oxygenase Acid-2 free. Complicated growth, brown flowers, purple flowers, black and white. Resistant to yellow mosaic virus while moderate resistance to rhizoctonia, aerial blight and target leaf spot and resistance to various insect pests.	5.0 X 5.4
Soybean	Kharif	RVSM-1135	Moderately resistant to pod blight, yellow mosaic virus and target leaf spot but not to neck rot, Rhizoctonia or aerial blight and myrothecium leaf spot.	5.0 X 5.4
Black Gram	Kharif	I.P.U. 94-1	YMV Resistant	5.0 X 5.4
Black Gram	Kharif	IPU-13-01	Resistant to YMV	5.0 X 5.4
Black Gram	Kharif	IPU-10-26	Resistant to YMV	5.0 X 5.4
Black Gram	Kharif	IPU-11-02	Resistant to YMV	5.0 X 5.4
Green Gram	Kharif	IPM-205-7	Early maturing (50-55 Days), HYV, resistant to YMV	5.0 X 5.4
Green Gram	Kharif	IPM- 2-14	Highly resistant to YMV and powdery mildew	5.0 X 5.4

Green Gram	Kharif	IPM-410-3	Highly resistant to YMV and powdery mildew	5.0 X 5.4
Green Gram	Kharif	IPM-99-125	Highly resistant to YMV and powdery mildew	5.0 X 5.4
Pearlmillet	Kharif	GHB- 538	Maturity days 75-78 days, Resistant to Downey mildew disease, Average yield (4439 kg ha-1)	5.0 X 5.4
Pearlmillet	Kharif	GHB- 732	Maturity days 80-85 days, Resistant to Downey mildew disease, Average yield (5037 kg ha-1)	5.0 X 5.4
Pearlmillet	Kharif	GHB- 744	Maturity days 78-80 days, Resistant to Downey, Average yield (2857 kg ha-1) mildew disease	5.0 X 5.4
Sorghum	Kharif	RVJ- 1862	Dual purpose, Maturity days 111 days (Grain Yield 40q/ha)	5.0 X 5.4
Wheat	Rabi	H.I. -1544	Early maturing, field resistance to brown rust, black rust and having pubescent glume	5.0 X 5.4
Wheat	Rabi	GW - 451	HYV Irrigated & timely sown	5.0 X 5.4
Wheat	Rabi	H.I.-1634	HYV Irrigated & timely sown	5.0 X 5.4
Wheat	Rabi	H.I. – 8737	Spike colour at maturity white, good for daliya and rawa	5.0 X 5.4
Wheat	Rabi	H.I. – 8823	It is a durum wheat genotype identified for timely sown, restricted irrigation conditions of Central Zone	5.0 X 5.4
Wheat	Rabi	H.I. – 8663	Irrigated timely sown Grain shape roundish	5.0 X 5.4
Wheat	Rabi	H.I. – 1636	HYV Irrigated & timely sown	5.0 X 5.4
Wheat	Rabi	H.I. – 8759	Grain colour White Bright drought tolerant good for chapati making	5.0 X 5.4
Wheat	Rabi	H.I. - 1605	Resistance to brown and black rust, excellent chapati quality.	5.0 X 5.4
Gram	Rabi	J G - 14	Moderate resistant to wilt, dry root and	5.0 X 5.4
Gram	Rabi	J G - 36	Moderate resistant to wilt, dry root and	5.0 X 5.4
Gram	Rabi	J G K -3	Big size of grains smooth seed	5.0 X 5.4
Gram	Rabi	PKV - 4	Extra bold seeded, colour white cream wilt resistant	5.0 X 5.4
Gram	Rabi	IPCK – 2004-29	Medium bold colour white cream wilt	5.0 X 5.4
Gram	Rabi	RVKG-101	Resistant to fusarium wilt and moderate tolerant to pod borer	5.0 X 5.4
Gram	Rabi	RVKG-201	Early maturing Desi type, moderately resistant to wilt.	5.0 X 5.4
Gram	Rabi	RVG-202	Suitable for late sown condition in paddy/cotton /soyabean-chickpea cropping system	5.0 X 5.4
Gram	Rabi	RVG-203	Moderately resistant to wilt, dry root rot	5.0 X 5.4
Gram	Rabi	RVG-204	Long plant, bold seeded, Resistant to wilt and tolerance to pod borer, suitable for mechanical harvesting	5.0 X 5.4
Mustard	Rabi	NRC DR - 2	Tolerant to salinity and high temperature at the time of sowing. Low incidence of white rust, Alternaria blight and aphids	5.0 X 5.4
Mustard	Rabi	Virat	HYV medium seeded, grain colour yellow	5.0 X 5.4
Mustard	Rabi	RH- 725	Heat tolerant at seedling stage and moisture stress tolerant	5.0 X 5.4
Mustard	Rabi	RH - 749	Moisture stress tolerant	5.0 X 5.4
Mustard	Rabi	DRMR-IJ- 31	Bold seeded, High Oil Content and High yielding variety.	5.0 X 5.4
Mustard	Rabi	DRMR- 150-35	Early maturity, tolerant to Powder mildew & A. blight	5.0 X 5.4
Mustard	Rabi	DRMR- 1165-40	Heat tolerant at seedling stage and moisture stress tolerant	5.0 X 5.4
Linseed	Rabi	JL-79	Suitable for Intercropping with pulses, high Omega-3 content moderately resistant to powdery mildew.	5.0 X 5.4
Linseed	Rabi	JL-95	High Omega-3 content (51.87) moderately resistant to Alternaria blight, powdery mildew and bud fly	5.0 X 5.4
Linseed	Rabi	RLC - 148	Suitable for rainfed situation moderately resistant to bud fly, moderately susceptible to wilt and powdery mildew	5.0 X 5.4
Linseed	Rabi	JL-73	Suitable for Intercropping with pulses, high Omega-3 content moderately resistant to powdery mildew.	5.0 X 5.4

Linseed	Rabi	JL-67	Suitable for Intercropping with pulses, moderately resistant to powdery mildew, moderately susceptible to <i>Alternaria</i> blight.	5.0 X 5.4
Linseed	Rabi	JL-66	Suitable for Intercropping with pulses, high Omega-3 content (55.96) moderately resistant to powdery mildew and bud fly, moderately susceptible to <i>Alternaria</i> blight	5.0 X 5.4
Linseed	Rabi	Kota Barani Alsi -4	Early maturity, moderately resistant to <i>Alternaria</i> blight and powdery mildew	5.0 X 5.4
Linseed	Rabi	Partap Alsi -2	Early maturity, moderately resistant to <i>Alternaria</i> blight, powdery mildew, wilt and bud fly	5.0 X 5.4
Planning for Horticulture Crop Cafeteria 2023				
Turmeric	Kharif	Salem	Big Size Rhizome & 4 cm long oil Content 4.75% Maturity 180 days	25
Lady Finger	Kharif	VRO-22	Fruits are 8 – 10 cm long resistant to YVMV & OLCV Yield 125-140 q/h	25
Onion	Kharif	L-883	Dark red, round shape after transplanting maturity time 90 days yield 300-325 q/h	20
		ADR	Dark red after transplanting maturity time 110 days	
Tomato	Kharif	Arka Rakshak, Arka Samrat	Dark red	20
Garlic	Rabi	Riyawan Silwar	Bulb big size & maturity Period 150 days	20
Garlic	Rabi	G-323	White color, maturity time 125 days	
Garlic	Rabi	G-404	Bulb big size & maturity Period 150 days	
Onion	Rabi	NHRDF Red-3, ALR	Bulb big size & maturity Period 120 days yield 350 q/h	20
Potato	Rabi	Kufri Chipsona	Maturity medium (92-110 days) resistant to led blight, yield 350 q/h	20
Fenugreek	Rabi	Afg-03, Afg-05	maturity Period 120-130 days, yield 15-20 q/h	20
Coriander	Rabi	ACr-01, ACr-02	maturity Period 135 days, yield 18-20 q/h	20

Details of Demonstration Unit at KVK

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

ANNUAL ACTION PLAN 2023

KVK Satna










Year of sanction: 1993

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.S.Negi		9425887138	rsnegi007@rediffmail.com

1.2 Staff Position on (31th Dec.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. R.S. Negi	Sr. Scientist & Head	Horticulture	37000-67000+ GP 9000 (52250)	01.10.2011	01.10.2011	9425887138	rsnegi007@rediffmail.com	
2	Subject Matter Specialist	Dr. R.P.Sharma	SMS	Animal Science	15600-39100+ GP 5400 (31350)	13.05.1991	13.05.1991	9425833181	ramprakashanju@radiffmail.com	
3	Subject Matter Specialist	Sh. Akhilesh Jagre	SMS	Plant Protection	15600-39100+ GP 5400	08.02.2019	08.02.2019	9425942368	akhileshjagre123@gmail.com	
4	Subject Matter Specialist	Dr. Ajay Chourasiya	SMS	Agronomy	15600-39100+ GP 5400	15.02.2019	15.02.2019	9407018060	ajaychourasiya09@gmail.com	
5	Subject Matter Specialist	Sh. Hemraj Diwevdi	SMS	Home Science	15600-39100+ GP 5400	15.10.2020	15.10.2020	8770534764	hemraj8691@gmail.com	
6	Subject Matter Specialist									
7	Subject Matter Specialist									
8	Programme Assistant	Sh. Ashok Sharma	PA	Lab. Techni.	9300-39100+ GP 4200	08.10.2016	08.10.2016	9425735157	Simpysharma01@gmail.com	
9	Computer Programmer/ Programme Assistant	Er. Harendra Kumar	PA	Computer Science	9300-39100+ GP 4200	16.10.2020	16.10.2020	9807434457	harendra1692@gmail.com	

	Programme Assistant	Sh. Uttam Kumar Tripathi	PA	Agriculture Extension	9300-39100+GP 4200	19.10.2020	19.10.2020	7393986096	uttam007tripathi@gmail.com	
10	Farm Manager	Sh. Satyam Chauriha	PA	Farm Manager	9300-39100+GP 4200	29.03.2022	29.03.2022	9713040704	satyam15992@gmail.com	
11	Assistant	Sh.R.P. Pandey	Accountant		9300-39100+GP 4200	01.06.2014	01.06.2014	9407288631	-	
12	Jr. Stenographer / Comp. Operator	Sh.A.K.Singh	Stenographer		5200-20200+GP 2400	01.12.1993	01.12.1993	9425887328	-	
13	Driver	-	-	-	-	-	-	-	-	-
14	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	Smt. Rita Singh	Jr. Clerk	-	5200-20200+GP 2000	07.09.1996	07.09.1996	9425887136		
16	Supporting staff	Sh.V.Singh	Attendant	Agronomy	4440-7440+GP 1300	01.05.1994	01.05.1994	9755086164		
	Supporting staff	Sh.K.Pathak	Attendant	Animal Science	4440-7440+GP 1300	01.04.1995	01.04.1995			
	Supporting staff	Sh. R. L. Baheliya	Cook		4440-7440+GP 1300	01.04.1996	01.04.1996			
	Supporting staff	Sh.B.G.Joshi	Attendant	Horticulture	4440-7440+GP 1300	01.12.1993	01.12.1993			

1.3 Total land with KVK (in ha): 25.20

S. No.	Item	Area (ha)
1	Under Buildings	1.80
2	Under Demonstration Units	0.43
3	Under Crops	12.6
4	Orchard/Agro-forestry	1.3
5	Others (specify)	
Total		

1.4 Infrastructural Development:

A) Buildings

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2				
Bolero(Jeep)				
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	
2	

2. DETAILS OF DISTRICT

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

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

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES – 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	
Forest	
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	
Kharif	
Rabi	
Zaid	
Cropping Intensity	

Irrigated Area with Different Sources:

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

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1			
2			
3			
4			

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1				
2				
3				
4				
5				

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

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

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

Category	Population	Production	Productivity
Cattle			
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						
2						
3						
4						
5						

Priority / Thrust areas

S. No.	Particulars
1.	
2.	

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

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

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

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

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Climate change (Early, terminal drought, dry spell, heat stress)		Crop planning (Selection of crop varieties based on LGP), Drought & heat tolerant varieties, short duration crop varieties, DSR, R&F, BBF and Raised bed sowing and intercropping						
2	Dominance of cereal based (rice-wheat) cropping system (39.56%)		Diversification from cereal based to pulses, oilseeds, horticultural crop based cropping system (Rice- chickpea, Rice- mustard, Blackgram- wheat, Blackgram- Mustard)						
3	57.9 % of farmers are marginal holds 0.5 to 1.0 ha land		Integrated farming system model for marginal, small and medium farmers under rain fed and irrigated conditions, promoting high valued cash crops (low volume high valued crops)						
4	Rain fed Farming (59.32%)		Promotion of nutri cereals (Sorghum, Pearl millet, Kodo millet, finger millet, foxtail millet, Barnyard millet) and crops maturing with in 35- 85 days (Radish, Spinach, Amaranthus, Leafy Coriander, Greengram, Blackgram, Niger, Sesame, Sweet corn, Cowpea						
5	Poor and shallow soils (29.6%)		Promotion of nutri cereals and crops maturing with in 75- 85 days						
6	25.29 % area kharif fallow due to unreliable & poorly distributed rains		Rain water harvesting for ground water recharge, Early maturing crops/varieties, Low water requiring crops varieties tolerant biotic factors, Intercropping – Cereals, Pulses, Oilseeds						
7	Over stress		Deep summer ploughing,						

Details of On Farm Trial (OFT)

OFT-1 (Agronomy)

Crop / Enterprise	Kodon millet
Title of on farm trial	Assessment of Integrated Weed Management technology for management of weeds in Kodon millet
Problem diagnosed	Yield loss upto 30 % due to heavy infestation of weeds
Farmers' Practices	No use of weedicide for weed management
Details of technologies selected for assessment	T ₁ Bensulfuron ethyl 0.6 + Pretilachlor 6.0 G at 0.33 kg ha ⁻¹ (within 3 DAS) fb one inter-cultivation at 25-30 DAS T ₂ Bispyribac sodium 10 SC 0.01 lit/ha (within 15-20 DAS) fb one inter-cultivation at 35-40 DAS
Source of technology	ICAR-DWR, Jabalpur (2020)
Plot size	0.4
No. of farmers	10
Total cost	7000
Critical input	Bensulfuron ethyl 0.6 + Pretilachlor 6.0 G (Londax power) and Bispyribac sodium 10 SC (Nominee Gold)
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of weeds/m ² , Weed Control Efficiency (%), Grain yield (kg/ha), Cost of Cultivation (Rs/ha), Net returns (Rs/ha) and B:C ratio.

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Integrated Weed Management technology for management of weeds in Kodon millet
Year/Season:	Kharif 2023-24
Farming situation:	Rainfed
Problem diagnosis:	Yield loss upto 30 % 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
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- No use of weedicide for weed management
T2 –Recommended Practice-	T2 : Bensulfuron ethyl 0.6 + Pretilachlor 6.0 G at 0.33 kg ha ⁻¹ (within 3 DAS) fb one inter-cultivation at 25-30 DAS
T3- Recommended Practice-	T3 : Bispyribac sodium 10 SC 0.01 lit/ha (within 15-20 DAS) fb one inter-cultivation at 35-40 DAS
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-DWR, Jabalpur (2020)
Characteristics of technology:	
Name of Crop/Enterprises:	Kodo millet
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -2 (Agronomy)

Crop / Enterprise	Field Crop + Vegetables + Livestock
Title of on farm trial	Assessment of Integrated Farming System Module for higher and sustainable income under Rice – wheat cropping system
Problem diagnosed	80.68 % of farmers in Satna district are small and marginal farmers possessing only

	42.86 % of the total operational land. Rice- wheat cropping system followed by majority of small and marginal famers has failed to provide sufficient income to farm families.	
Farmers' Practices	T-1 Rice- Wheat cropping system	
Details of technologies selected for assessment	T ₁	One ha integrated Farming System (IFS) model comprising of cropping systems (rice-wheat-green gram) in 0.4 ha + Vegetables (Tomato, Brinjal, Potato, Cabbage, Cauliflower, okra, peas, spinach, Coriander, Fenugreek, Green chilies, Onion) in 0.4 ha + Dairy (1 cow, 1 buffalo) including vermicompost unit in 0.2 ha
	T ₂	
Source of technology	IIFSR, Jhansi (UP)	
Plot size	1 ha	
No. of farmers	5	
Total cost	20000	
Critical input	Crop Production (0.4 ha): Kharif-Rice, Rabi-Wheat, Zayad- Greengram Vegetable Production (0.4 ha): Kharif- Tomato, Brinjal, Okra, Chilies and Rabi- Onion, Potato, Cauliflower, Chilies and Zayad- Bottle guard Livestock production (0.2): Mineral Mixture for Cow and buffalo and Vermibed for Vermicompost	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	System productivity (kg/ha/day), System profitability (Rs./ha/day), Cost of production (Rs./ha), Net returns (Rs./ha) and B:C ratio	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Integrated Farming System Module for higher and sustainable income under Rice – wheat cropping system
Year/Season:	Kharif, Rabi & Zayad 2023-24
Farming situation:	Irrigated
Problem diagnosis:	80.68 % of farmers in Satna district are small and marginal farmers possessing only 42.86 % of the total operational land. Rice- wheat cropping system followed by majority of small and marginal famers has failed to provide sufficient income to farm families.
Thematic area:	Integrated Farming System
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- Rice- Wheat cropping system
T2 –Recommended Practice-	T2 : One ha integrated Farming System (IFS) model comprising of cropping systems (rice-wheat-green gram) in 0.4 ha + Vegetables (Tomato, Brinjal, Potato, Cabbage, Cauliflower, okra, peas, spinach, Coriander, Fenugreek, Green chilies, Onion) in 0.4 ha + Dairy (1 cow, 1 buffalo) including vermicompost unit in 0.2 ha
T3- Recommended Practice-	T3 :
Date of sowing:	
Date of harvesting:	
Source of technology:	IIFSR, Jhansi (UP)
Characteristics of technology:	
Name of Crop/Enterprises:	Field Crop + Vegetables + Livestock
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -3 (Agronomy)

Crop / Enterprise	Mustard
Title of on farm trial	Assessment of Natural Farming practices on growth and yield contributing attributes in Mustard
Problem diagnosed	Indiscriminate use of inorganic fertilizers has brought threat to soil health in respect of physical, chemical and biological properties of soil.
Farmers' Practices	Seed treatment with Carboxin+ thiram @ 2 g/kg seed, Application of NPKS (32:16:12:8) Kg/acre, Application of Pendimethalin 38.7 % CS @ 700 ml/acre PE for weed control and application of Thiamethoxam @ 100 g/acre for aphid control
Details of technologies selected for assessment	T ₁ Seed treatment with Beejamrit @ 20 ml/kg seed, Jeevamrit (Soil application of 200 kg /acre Ghan Jeevamrit before cum up irrigation + Taral Jeevamrit @ 500 litre/acre at cum-up irrigation + Four foliar application of liquid Jeevamrit @ 85 litre/acre at 21 days interval each spray), Straw mulching for weed management and moisture conservation) and two foliar application of Neemastra @ 12 litre/acre for aphid management.
	T ₂
Source of technology	Gurukul Natural Farming Farm, Kurukshetra (Haryana) (2019)
Plot size	0.4
No. of farmers	10
Total cost	5000
Critical input	Mustard seed, Beejamrit, Ghan Jeevamrit, Taral Jeevamrit and Neemastra
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Plant Height(cm), No. of branches, No. of siliqua/plant, No. of seeds per siliqua, Test weight (g), Seed Yield (Kg/ha), Stover Yield (kg/ha), Cost of cultivation, net returns (Rs/ha). B:C ratio

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming practices on growth and yield contributing attributes in Mustard
Year/Season:	Rabi 2023-24
Farming situation:	Rainfed
Problem diagnosis:	Indiscriminate use of inorganic fertilizers has brought threat to soil health in respect of physical, chemical and biological properties of soil.
Thematic area:	Precision Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Seed treatment with Carboxin+ thiram @ 2 g/kg seed, Application of NPKS (32:16:12:8) Kg/acre, Application of Pendimethalin 38.7 % CS @ 700 ml/acre PE for weed control and application of Thiamethoxam @ 100 g/acre for aphid control
T2 –Recommended Practice-	T2 : Seed treatment with Beejamrit @ 20 ml/kg seed, Jeevamrit (Soil application of 200 kg /acre Ghan Jeevamrit before cum up irrigation + Taral Jeevamrit @ 500 litre/acre at cum-up irrigation + Four foliar application of liquid Jeevamrit @ 85 litre/acre at 21 days interval each spray), Straw mulching for weed management and moisture conservation) and two foliar application of Neemastra @ 12 litre/acre for aphid management.
T3- Recommended Practice-	T3 :
Date of sowing:	
Date of harvesting:	
Source of technology:	Gurukul Natural Farming Farm, Kurukshetra (Haryana) (2019)
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4 (Agronomy)

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Agri drone sprayer for chemical weed control in Wheat	
Problem diagnosed	Manual spraying is more laborious and time taking and some times not more effective due to poor distribution of spray material	
Farmers' Practices	Application of Metribuzin 70% WP @ 0.175 kg a.i. ha-1 POE by Knapsack Sprayer	
Details of technologies selected for assessment	T ₁	T2-Application of Metribuzin 70% WP @ 0.175 kg a.i. ha-1 POE by Agri Drone Sprayer
	T ₂	
Source of technology	Vasantrao Naik Marathwada Krishi Vidyapeeth (VNMKV), Parbhani (2021)	
Plot size	0.4	
No. of farmers	10	
Total cost	5000	
Critical input	Metribuzin 70% WP	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No of weeds/m ² , Weed control efficiency (%), labour saving(MD), time saving(days). Grain yield (kg/ha), Cost of Cultivation (Rs/ha), Net returns (Rs/ha) and B:C ratio.	

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Agri drone sprayer for chemical weed control in Wheat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Manual spraying is more laborious and time taking and some times not more effective due to poor distribution of spray material
Thematic area:	Precision Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Application of Metribuzin 70% WP @ 0.175 kg a.i. ha-1 POE by Knapsack Sprayer
T2 –Recommended Practice-	T2 : T2-Application of Metribuzin 70% WP @ 0.175 kg a.i. ha-1 POE by Agri Drone Sprayer
T3- Recommended Practice-	T3 :
Date of sowing:	
Date of harvesting:	
Source of technology:	Vasantrao Naik Marathwada Krishi Vidyapeeth (VNMKV), Parbhani (2021)
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5 (Horticulture)

1	Enterprise	Bitter gourd
2	Title of on-farm trial	Assessment of foliar application of micronutrients on Yield and quality of Bitter gourd.
3	Problem diagnosed	Productivity of bitter gourd is adversely affected by micronutrient deficiencies
4	Farming situation	Irrigated
5	Production system and thematic area	Integrated nutrient management
6	Farmers' practices	Recommended dose of fertilizer NPKS Zn @ 150:60:40 : 20 :12.5 Kg/ha
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : Foliar application of urea 0.5 % along with boric acid @ 25 ppm at 15 days interval after 25 days after planting T ₂ : Foliar application of urea 1.0 % along with boric acid @ 25 ppm at 15 days interval after 25 days after planting.
8	Source of technology	IIHR, Banglore (2018)
9	No. of animals	0
10	No. of farmers	10
11	Critical input	Urea and boric acid
12	Cost of input	5500
13	Total cost	6000
14	Performance indicators Observation to be recorded Fruit yield (kg/ha) Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of foliar application of micronutrients on Yield and quality of Bitter gourd.
Year/Season:	2023 (Kharif)
Farming situation:	Irrigated
Problem diagnosis:	Productivity of bitter gourd is adversely affected by micronutrient deficiencies
Thematic area:	Integrated nutrient management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Recommended dose of fertilizer NPKS Zn @ 150:60:40 : 20 :12.5 Kg/ha
T2 –Recommended Practice-	T2 : Foliar application of urea 0.5 % along with boric acid @ 25 ppm at 15 days interval after 25 days after planting
T3- Recommended Practice-	T3 : Foliar application of urea 1.0 % along with boric acid @ 25 ppm at 15 days interval after 25 days after planting.
Date of sowing:	
Date of harvesting:	
Source of technology:	IIHR, Banglore (2018)
Characteristics of technology:	

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

OFT-6 (Horticulture)

1	Enterprise	Potato
2	Title of on-farm trial	Assessment of processing varieties of potato for their growth and yield parameters in Satna District.
3	Problem diagnosed	Farmers generally use locally available tubers as planting material, which is not suitable for processing purpose
4	Farming situation	Irrigated
5	Production system and thematic area	Varietal Evaluation
6	Farmers' practices	Locally available seed
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : Kufri Chipsona 4 T ₂ : Kufri Frysona
8	Source of technology	CPRI(2019)
9	No. of animals	0
10	No. of farmers	10
11	Critical input	Seed
12	Cost of input	10000
13	Total cost	10500
14	Performance indicators Observation to be recorded Fruit yield (kg/ha) Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of processing varieties of potato for their growth and yield parameters in Satna District.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Farmers generally use locally available tubers as planting material, which is not suitable for processing purpose
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Locally available seed
T2 –Recommended Practice-	T2 : Kufri Chipsona 4
T3- Recommended Practice-	T3 : Kufri Frysona
Date of sowing:	
Date of harvesting:	
Source of technology:	IIHR, Banglore (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	Bitter gourd

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-7 (Horticulture)

1	Enterprise	Onion
2	Title of on-farm trial	Assessment of Jeevamrit on growth and yield of Onion.
3	Problem diagnosed	The cost of inorganic fertilizers is Increasing enormously to the extent that they are out of reach of small and marginal farmers
4	Farming situation	Irrigated
5	Production system and thematic area	Chemical free Natural Farming
6	Farmers' practices	Recommended dose of fertilizer NPK @ 120:80:60 Kg/ha
7	Details of technologies selected for assessment/refinement Treatments	T ₁ : FYM 25 T + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage T ₂ : 100% RDF + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage
8	Source of technology	CPRI(2019)
9	No. of animals	0
10	No. of farmers	10
11	Critical input	Seed
12	Cost of input	10000
13	Total cost	10500
14	Performance indicators Observation to be recorded Fruit yield (kg/ha) Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of processing varieties of potato for their growth and yield parameters in Satna District.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	The cost of inorganic fertilizers is Increasing enormously to the extent that they are out of reach of small and marginal farmers
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 : Recommended dose of fertilizer NPK @ 120:80:60 Kg/ha
T2 –Recommended Practice-	T2 : FYM 25 T + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage
T3- Recommended Practice-	T3 : 100% RDF + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage
Date of sowing:	
Date of harvesting:	
Source of technology:	University of Agricultural Sciences, banglore (2017)

Characteristics of technology:	
Name of Crop/Enterprises:	Chemical free Natural Farming
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Plant protection 01.

Crop / Enterprise	Green gram.
Title of on farm trial	Assessment of efficacy bio pesticide against sucking pest in Green gram
Problem diagnosed	Loss of crop up to 25-30% yield due to severe infestation of sucking pests(White fly, Jassids and Aphids)
Farmers' Practices	Foliar application of Thiamethoxam 25 % WG @ 100 gram/ acre .
Details of technologies selected for assessment	T ₁ Foliar application of Aganistra biopesticide @ 6 % at 25,40 & 50 DAS
	T ₂ Foliar application of Neemastra biopesticide @ 6 % at 25,40& 50 DAS
Source of technology	Tamil Nadu Agricultural university, Coimbatore (2017).
Plot size	0.4ha
No. of farmers	10
Total cost	3000
Critical input	Biopesticide (Neemastra & Agniastra)
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	No. of sucking pests per plants , Insect control (%), Yield (q/ha), Cost of cultivation (Rs/ha.) Net returns (Rs/ha), B:C ratio

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of efficacy bio pesticide against sucking pest in Green gram. .
Year/Season:	Kharif -2024
Farming situation:	Irrigated
Problem diagnosis:	Loss of crop up to 25-30% yield due to severe infestation of sucking pests(White fly, Jassids and Aphids)
Thematic area:	Integrated Pest Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T-1 Foliar application of Thiamethoxam 25 % WG @ 100 gram/ acre .
T2 –Recommended Practice-	T-2 Foliar application of Aganistra biopesticide @ 6 % at 25,40 & 50 DAS
T3- Recommended Practice-	T-3 Foliar application of Neemastra biopesticide @ 6 % at 25,40& 50 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Tamil Nadu Agricultural university, Coimbatore (2017).
Characteristics of technology:	
Name of Crop/Enterprises:	Green gram, Chemical free Natural Farming
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-
Performance indicators Observation to be recorded	No. of sucking pests per plants , Insect control (%), Yield (q/ha), Cost of cultivation (Rs/ha.) Net returns (Rs/ha), B:C ratio

02 plant protection

Crop / Enterprise	Black gram.	
Title of on farm trial	Assessment of efficacy of bio pesticide against, Pod borer and Bihar hairy caterpillar in Black gram	
Problem diagnosed	Loss of crop yield due to different pests of black gram up to 25-30 %. Several insecticides recommended for management of Pod borer & Bihar hairy caterpillar are showing resistance to insecticide	
Farmers' Practices	Foliar application of Indoxacarb 14.5% @ 150 ml/ acre .	
Details of technologies selected for assessment	T1	Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS
	T2	Foliar application of Bramastra biopesticide @ 6 % at 25,40& 50 DAS
Source of technology	Tamil Nadu Agricultural university, Coimbatore (2017).	
Plot size	0.4ha	
No. of farmers	10	
Total cost	3000	
Critical input	Biopesticide (Neemastra & Agniastra)	
Performance indicators: Technical- yield (q/ ha) Economic Social – Employment generation	No.of insect per plants , Insect control (%), Yield (q/ha), Cost of cultivation (Rs/ha.) Net returns(Rs/ha), B:C ratio	

Detailed Information about OFT:

Name of Discipline	Plant Protection	
Title of on-farm trial:	Assessment of efficacy of bio pesticide against, Pod borer and Bihar hairy caterpillar in Black gram	
Year/Season:	Kharif -2024	
Farming situation:	Irrigated	
Problem diagnosis:	Loss of crop yield due to different pests of black gram up to 25-30 %. Several insecticides recommended for management of Pod borer & Bihar hairy caterpillar are showing resistance to insecticide	
Thematic area:	Integrated Pest Management	
No of trials:	10	
No. of farmers involved	10	
Type of OFT (Assessment/ Refinement):	Assessment	
Details of technology selected for assessment/ refinement:		
T1 – Farmers Practice-	T-1 Foliar application of Indoxacarb 14.5% @ 150 ml/ acre .	
T2 –Recommended Practice-	T-2 Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS	
T3- Recommended Practice-	T-3 Foliar application of Bramastra biopesticide @ 6 % at 25,40& 50 DAS	
Date of sowing:	-	
Date of harvesting:	-	
Source of technology:	Tamil Nadu Agricultural university, Coimbatore (2017).	
Characteristics of technology:		
Name of Crop/Enterprises:	Blackgram, Chemical fee Natural Farming	
Recommendations for Farmers	-	
Recommendations for Deptt. Personnel	-	
Feedback	-	
Performance indicators Observation to be recorded	No.of insect per plants , Insect control (%), Yield (q/ha), Cost of cultivation (Rs/ha.) Net returns(Rs/ha), B:C ratio	

Plant Protection -03

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of integrated module of Fusarium wilt management
Problem diagnosed	Yield loss up to 40% due to severe infestation of Fusarium wilt

Farmers' Practices	Seed treatment with Carbendazim + Mancozeb @ 2 gram per kg seed	
Details of technologies selected for assessment	T1	Integrated module- Deep ploughing + Soil application of Trichoderma viride @ 4 kg/ha + Seed treatment (FIR)+ Intercropping (Chickpea+ Coriander , 10:1or 2) and Marigold planting around the border + need based foliar application of tebuconazol @ 625 ml/ha at 25 and 45 DAS
	T2	-
Source of technology	JNKVV, Jabalpur (2015)	
Plot size	0.4ha	
No. of farmers	10	
Total cost	3500	
Critical input	Biopesticide (Neemastra & Agniastra)	
Performance indicators: Technical- yield (q/ ha) Economic Social – Employment generation	Disease incidence/m ² , No. of healthy plants /m ² , No. of pods/plant, Yield(q/ha), Cost of cultivation, Net returns(Rs/ha), B:C ratio	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated module of Fusarium wilt management in chickpea
Year/Season:	Rabi 2023 --24
Farming situation:	Rainfed
Problem diagnosis:	Yield loss up to 40% due to severe infestation of Fusarium wilt
Thematic area:	Integrated Disease Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T-1 Seed treatment with Carbendazim + Mancozeb @ 2 gram per kg seed .
T2 –Recommended Practice-	T-2. Integrated module- Deep ploughing + Soil application of Trichoderma viride @ 4 kg/ha + Seed treatment (FIR)+ Intercropping (Chickpea+ Coriander , 10:1or 2) and Marigold planting around the border + need based foliar application of tebuconazol @ 625 ml/ha at 25 and 45 DAS
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur (2015)
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-
Performance indicators Observation to be recorded	Disease incidence/m ² , No. of healthy plants /m ² , No. of pods/plant, Yield(q/ha), Cost of cultivation, Net returns(Rs/ha), B:C ratio

04.Plant protection

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of efficacy bio pesticide against aphid (Sucking pest) in Mustardt	
Problem diagnosed	Loss of crop up to 30-35% yield due to severe infestation of sucking pests(Aphids	
Farmers' Practices	Foliar application of Thiamethoxam 25 wg @ 100 gram/ acre .	
Details of technologies selected for assessment	T1	Foliar application of Neemastra biopesticide @ 6 % at 25,40& 50 DAS
	T2	Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS

Source of technology	Tamil Nadu Agricultural university, Coimbatore (2017).
Plot size	0.4ha
No. of farmers	10
Total cost	2500
Critical input	Biopesticide (Neemastra & Agniastra)
Performance indicators: Technical- yield (q/ ha) Economic Social – Employment generation	No. of sucking pests per plants , Insect control (%), Yield (q/ha), Cost of cultivation (Rs/ha.) Net returns (Rs/ha), B:C ratio

Detailed Information about OFT:

Name of Discipline (Plant Protection/Plant)	
Title of on-farm trial:	Assessment of efficacy bio pesticide against aphid (Sucking pest) in Mustard
Year/Season:	Rabi 2023 --24
Farming situation:	Rainfed
Problem diagnosis:	Loss of crop up to 30-35% yield due to severe infestation of sucking pests(Aphids)
Thematic area:	Integrated pest Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T-1 Foliar application of Thiamethoxam 25 wg @ 100 gram/ acre .
T2 –Recommended Practice-	T-2 Foliar application of Neemastra biopesticide @ 6 % at 25,40& 50 DAS
T3- Recommended Practice-	T-3 Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Tamil Nadu Agricultural university, Coimbatore (2017).
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard Chemical fee Natural Farming
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-
Performance indicators Observation to be recorded	No. of sucking pests per plants , Insect control (%), Yield (q/ha), Cost of cultivation (Rs/ha.) Net returns (Rs/ha), B:C ratio

Information about Extension OFT:

Title	Assessment of change in farmer's perception towards participation in Extension Activities like Kisan Gosthi, Group Meetings, Sammelan programmer by using Public Addressing System (PAS) audio devices.
Season & Year	2023-24
Problem identified	Less motivation towards participation and attention in off campus training programmes among farmers
Thematic Area	Extension Management
Farming situation	NA
Name of Technology Intervention under study	PAS
Farmers Practice	Public addressing system is considered to be the most effective and efficient tool in organization of meetings and campaign in rural areas
No. of replication (Farmers)	25

Results / findings

Performance indicator/ parameter (N=25)						
S. No	Name of Indicators used	Responses of selected Farmers				
01	Per cent increase/decrease in participation of Farmers	Year	No of Extension Activity	Total no of Participate	Avg. Participation	Result
02	Increase/decrease time taking by farmers to assemble at event spot					
03	Change in attitude of farmers towards KVK Extension Activity	1. Favorable Condition				
		2. Unfavorable Condition				
		3. Undecided				
04	Farmers feedback					

Information about Home Science OFT: 1

Title of on-farm trial:	Assessment of value addition of aonla on tribal farm family income
Year/Season:	2022-23
Problem diagnosis:	Poor socio economic condition of tribal farm families dependent on forest produce
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value Addition
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	T-1Collection and selling of fresh aonla fruit in the market T-2 Selling of dried aonla (Amlethi) in the market.

T2 –Recommended Practice-	T3-Selling of Aonla powder in the market
Source of technology:	CISH, Lucknow (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	Aonla
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 income enhancement of tribal farm families following value addition of oyster mushroom
Year/Season:	2022-23
Problem diagnosis:	Low market value of fresh mushroom
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value Addition
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	T-1 Selling of fresh mushroom at low price
T2 –Recommended Practice-	T-2 Oyster mushroom powder
Source of technology:	ICAR-National Research Centre for Mushroom , Solan (2008)
Characteristics of technology:	
Name of Crop/Enterprises:	oyster mushroom
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 of green leafy vegetable with multigrain flour chapati for improvement of hemoglobin levels in farmwomen
Year/Season:	2022-23
Problem diagnosis:	High anemic patient in district
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-	T-1 Wheat flour chapati T-2 Wheat+ Soy flour + Makki atta (1:1:1) + Seasonal green leafy vegetable
T2 –Recommended Practice-	T-3 Wheat + Makki atta+ Besan (1:1:1) + Seasonal green leafy vegetable
Source of technology:	KVK Jalandhar (2016)
Characteristics of technology:	
Name of Crop/Enterprises:	Green leafy vegetables and cereals
Farming situation:	Rainfed
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Home Science OFT: 4

Title of on-farm trial:	Assessment of Mahua seed decorticator for Drudgery Reduction of Tribal Farm women
Year/Season:	2022-23
Problem diagnosis:	Decortications of mahua seed by traditional shelling method is time consuming , laborious, low keeping quality due to damage of mahua seed and causing high drudgery of Farm Women
Thematic area: (Focus area in DFI and nutri smart initiatives)	Drudgery Reduction
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	T-1. Decortications of mahua seed manually
T2 –Recommended Practice-	T-2. Decortications of mahua seed by Mahua seed decorticator
Source of technology:	OUAT Bhubaneswar (Odisha) (2011)
Characteristics of technology:	
Name of Crop/Enterprises:	Locally collected mahua seeds
Farming situation:	Rainfed
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

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

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demonstration	Parameters identified for performance evaluation
	Agronomy							
1	Rice	Resource Conservation Technology	Demonstration on direct seeding technology in Rice for reduction of cost and mitigate climate change	Improved variety (Shwarn Shrey) and Weedicide (Bysperback sodium @ 80 gm/acre)	Kharif 2023-24	4	10	Yield kg/ha, Cost of cultivation (Rs/ha) Gross Monetary return (Rs/ha), Net Monetary return (Rs/ha)
2	Sorghum	Integrated Crop Management	Demonstration on Integrated crop management of Sorghum for higher productivity and profitability	Improved variety seed (CSV 28) and Weedicide (Atrazine @ 1 kg/ha PE)	Kharif 2023-24	4	10	Yield kg/ha, Cost of cultivation (Rs/ha) Gross Monetary return (Rs/ha), Net Monetary return (Rs/ha)
3	Wheat	Resource Conservation Technology	Demonstration of Zero tillage technology of wheat under rice-wheat cropping sequence	Zero till sowing and Improved variety seeds	Rabi 2023-24	4	10	No. of tillers/plant, No. of ears/plant, Cost saving (Rs/ha), Grain yield (q/ha), Gross Monetary Return (Rs/ha), Net Monetary Return (Rs/ha), B:C ratio
4	Barley	Nutrition Sensitive Agriculture	Demonstration of improved production technology of good malting quality, high fibre and β glucan variety of barley.	Seed	Rabi 2023-24	4	10	Plant height (cm), No. of tillers/plant, No. of ears/plant, Cost saving (Rs/ha), Grain yield (q/ha), Net Return (rs/ha), B:C ratio
	Horticulture							
5	Tomato	Chemical free Natural farming	Demonstration of Chemical free Natural	Variety- Kashi Aman Beejamrit Ghan Jeevamrit Liquid Jeevamrit (5 spray)	Kharif	1	20	Plant height(cm), no. of branches/plant,

			farming practices in tomato.					no. of flowers/plant, no. of fruits /plant, fruit size(cm ²), av. Fruit weight(g/fruit yield)(kg/ha), days to first flower initiation, days to fruit setting after flowering, days to first harvest after flowering, Net returns(Rs/ha), B:C ratio.
6	Cabbage + Pea	Crop Diversification and intensification (Intercropping)	Demonstration of vegetable intercropping (Cabbage +Pea) for ensuring higher returns under Okra-Cabbage-Onion cropping sequence.	Cabbage hybrid Pea Seed	Rabi 2023-24	1	20	Yield of Cabbage Main crop Equivalent Yield of intercrop, Increase in yield(q/ha) Increase in income/ha, Net return, Benefit cost ratio .
7	Potato	Chemical free Natural farming	Demonstration of chemical free Natural farming components (Beejamrit &Jeevamrit) in Potato.	Variety- Kufri Chipsona 2 Beejamrit Ghan Jeevamrit Liquid Jeevamrit	Rabi 2023-24	1	20	Plant height(cm), no. of branches/plant, no. of tubers/plant, tuber size(cm ²), av. tuber weight(g) tuber yield((kg/ha), Net returns(Rs/ha), B:C ratio.
Plant protection								
8	Tomato	Integrated Disease Management	Demonstration of integrated module of late blight management in Tomato	<i>Trichoderma viride</i> and fungicides (Metalaxyl + Mancozeb - 72%)	Rabi 2023-24	4	10	Disease incidence per m ² , No. healthy fruit /plant , Yield (kg/ha.),Cost of cultivation (Rs/ha.) , Net returns(Rs/ha), B:C ratio.
9	Rice	Integrated Disease Management	Demonstration of Trichoderma species in	<i>Trichoderma viride</i> and <i>Pseudomonas fluorescense</i>	Kharif 2023	4	10	Disease incidence per m ² , yield (q/ha) , Cost of

			managem nt of Rice false smut					cultivation (Rs/ha.) , net returns(Rs/ha), B:C ratio
	Mushroo m	Income generation	Demonstrati on of production technology of oyster mushroom for income generation in marginalize d group of farmers	<i>Mushroom seed (spawn),chemical and pollybags</i>	Rabi 2023- 24	40 bag	10 unit	Yield (Kg/bag), Cost of cultivation (Rs/ha.) , net returns(Rs/ha), B:C ratio.
	Home Science							
8	Cow pea	Nutritional Security	Demonstrati on on sprouted cowpea feeding to malnourishe d children under 5 years	Sprouted cowpea 40 g/day	Kharif 2023		10	Body weight gain(kg), increase in height(cm)
9	Kitchen garden	Nutritional Security	Demonstrati on of nutritional Kitchen garden for year round production of vegetables to meet family requirement	Kharif: Cowpea,Sponge Gourd,Bottle Gourd,,Bitter Gourd,Chilli,Papaya,Custa rd apple. Rabi : Spinach, Methi, Brinjal , Tomato,Raddish,Onion,Pa paya	Kharif 2023		10	Increase in Availability of Vegetables to farm families, Cost of Production(Rs), Net Returns (Rs./anum)
10	Drumstic k	Nutritional Security	Demonstrati on on Drumstick dry leaf powder as daily dietary supplement for anemic adolescent	Dry drumstick leaf powder @ 10g/day/head mean daily intake	Kharif 2023		10	Haemoglobin levels after use of multigrain with leafy vegetable , Per capita Consumption gm/ day

Extension and Training activities under FLDs

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

2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

Details of FLD on Enterprises

Farm Implements

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

*Field efficiency, labour saving etc.

Livestock Enterprises

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

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	Integrated crop Management	Improved variety, Weed Management, Disease Management	Seed, Weedicide, Insecticide	Kharif 2023-24	20	50	Yield (Kg/ha), Cost of cultivation (Rs/ha), GMR (Rs/ha), NMR (Rs/ha), B:C Ratio
2	Greengram	Integrated crop Management	Improved variety, Weed Management, Disease Management	Seed, Weedicide, Insecticide	Kharif 2023-24 Summer 2023-24	30	75	Yield (Kg/ha), Cost of cultivation (Rs/ha), GMR (Rs/ha), NMR (Rs/ha), B:C Ratio
3	Pigeonpea	Integrated crop Management	Improved variety, Weed Management, Pest Management	Seed, Weedicide, Insecticide	Kharif 2023-24	10	25	Yield (Kg/ha), Cost of cultivation (Rs/ha), GMR (Rs/ha), NMR (Rs/ha), B:C Ratio
4.	Chickpea	Integrated crop Management	Improved variety and Pest Management	Seed, Insecticide	Rabi 2023-24	20	50	Yield (Kg/ha), Cost of cultivation (Rs/ha), GMR (Rs/ha), NMR (Rs/ha), B:C Ratio
5.	Lentil	Integrated crop Management	Improved variety, Weed Management,	Seed, Insecticide	Rabi 2023-24	20	50	Yield (Kg/ha), Cost of cultivation (Rs/ha), GMR (Rs/ha), NMR

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology									
Total									
g) Medicinal and Aromatic Plants									
Production and management technology									
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	01	01							20
Design and development of low/minimum	00	00							00

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
cost diet									
Designing and development for high nutrient efficiency diet	00	00							00
Minimization of nutrient loss in processing	00	00							00
Gender mainstreaming through SHGs	01	01							20
Value addition	03	01							60
Income generation activities for empowerment of rural Women	01	01							20
Location specific drudgery reduction technologies	01	01							20
Women and child care	00	00							00
Total	07	07							140
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	02	03							20
Integrated Disease Management	01	01							
Bio-control of pests and diseases	01	01							25
Production of bio control agents and bio pesticides	01	01							25
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	1	1							20
Group dynamics	1	1							20
Formation and	1	1							20

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
February	F& FW	Summer cultivation of Greengram and Blackgram for crop intensification	01							20
May	F& FW	Quality Seed Production of Kodo millet	01							20
June	F& FW	Integrated Crop Management Practices in Sorghum	01							20
July	F& FW	Improved sowing techniques for enhancing productivity of kharif pulses and oilseed crops	01							20
Oct	F& FW	Organic crop production practices of Chickpea	01							20
Nov	F& FW	Zero tillage technology of wheat under semi-irrigated condition in rice-wheat cropping sequence	01							20
Dec	F& FW	Water saving and micro irrigation technology for Wheat	01							20
Horticulture										
May	F& FW	Profitable vegetable based cropping patterns for marginal farmers under irrigated conditions	02							20
June		Improved	02							20

		production and management practices in Tomato cultivation								
July		Natural Farming Practices in Kharif Season Vegetable Production	02							25
October		Improved cultivation technology for Potato and onion.	02							20
Livestock production										
Home Science										
Plant Protection										
June	F& FW	Integrated pest management in kharif pulse crops	01							20
July	F& FW	Integrated pest management in Rice crop	01							20
July	F& FW	Integrated Disease management in kharif pulse crops	01							20
August	F& FW	Preparation technology of eco friendly bio- pesticides i.e. Neemastra, Bramstra & Aganistra	01							20
September	F& FW	Method of	01							20

		seed treatment in rabi crops								
October	F& FW	Integrated pest management in Mustard crop	01							20
Agriculture Extension (Capacity Building and Group Dynamics)										
April	F& FW	Training Program FPO Business orientation & the delivery mechanism	01							20
May	F& FW	Export opportunities in Agriculture Products	01							20
June	F& FW	Use of Social Media For Agriculture	01							20
July	F& FW	Training program on FIG Formation and Product Marketing	01							20
August	F& FW	Training programme on FPO Business Management	01							20
Soil Science										

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	F& FW	Techniques of protecting crops against frost injury	01							20
May	F& FW	Integrated farming system module for improving nutritional and economic security of small and marginal farmers.	01							20
June	F& FW	Direct Seeded Rice for minimizing cost of production in Rice	01							20
July	F& FW	Integrated weed management practices for Kodo millet	01							20
October	F& FW	Natural Farming practices 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	
		minimizing cost of production and higher net return of Mustard								
November	F& FW	Integrated weed management practices for Chickpea	01							20
December	F& FW	Aerial spraying of Nano fertilizers using Agri drone sprayer in Barley and Wheat	01							20
Horticulture										
January	F& FW	Nursery raising technique of cucurbitaceous vegetables in poly bags.	02							25
January	F& FW	Foliar application of water soluble nutrients in onion and garlic	02							30
April	F& FW	Planning for year-round production of vegetables.	02							20
May	F& FW	Layout, planting technique and moisture conservation methods for planting fruit trees on farm bunds and in homesteads	02							20
May	F& FW	Improved production and management practices in Bittergourd cultivation	02							20
	F& FW	Nursery raising techniques for Kharif season vegetables.	02							25
Total										
Livestock										

Month/ Tentative Date	Clientele	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	Training program For Accountants of FPO	01							20
Soil Science										

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	RY	Quality Seed Production of Field crops	05							20
September	RY	Organic farming of Field crops	05							20
Horticulture										
July	RY	Various propagation techniques involved in raising nursery of fruit plants	10							20
October	RY	Seed Production Technology of Onion & Post Harvesting Handling of seeds	03							20
Livestock production										
Home Science										
Plant Protection										
August	RY	Bio-pesticide production technology in rural youth	05							20
September	RY	Mushroom Production	05							20

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Agriculture Extension (Capacity Building and Group Dynamics)										
May	FPO Director, CEOs, and Accountants	Agriculture Extension Approaches in FPO Business Management	01							25
Soil Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration n	Client PF/ RY/ EF	No. of courses	No. of participants						Spon sor ing agen cy
						Male		Female		Total		
						Other	SC/ST	Other	SC/ST	Other	SC/ST		Total
1.	Climate Resilient Technologies for field crops	Increasing production and productivity of crops	01								20	
2.	Weed management in kharif crops	Increasing production and productivity of crops	01								20	
3.	Irrigation management in Rabi crops	Increasing production and productivity of crops	01								20	
4.	Organic crop production Practices in Kharif crops	Increasing production and productivity of crops	01								20	
5.	Training for Beekeepers'	Business Management	01		06						30	
	Preparation of cow urine based liquid biofertilizer Taral	Natural farming	01		02						25	

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

SI. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango Budded	Dushehari, langra, Amarpali	200
	Mango Seedling	Seedling	500
	Aonla Budded	NA-7 & NA-6	500
	Aonla seedling	Seedling	1500
	Karounda seedling	Pant Manohar, Pant Swarna	1200
	Lime Budded	Kagzi Lime, Seedless	500
	Lemon seedling	Kagzi	500
	Papaya seedling	Coorg Honey Dew/ Arka Prabhat	1500
	Guava budded	Apple colour and Allahabadi Safeda/Lalit	200
	Guava seedlings	Apple colour and Allahabadi Safeda	1000
	Pomegranate	Bhagua	200
	Custard Apple	Dharur-6	200
	Jack fruit	Khwaja	200
	Jackfruit	Khwaja	200
	Munga (Moringa)	PKM-2	200
	Passion fruit		300
SPICES	Onion		250000
	Capsicum		2000
VEGETABLES	Tomato	Kashi Aman, Kashi Adarsh	50000
	Brinjal	Kashi Taru, NB-5	40000
	Chillies	Kashi Anmol	50000
	Cabbage	Golden Acre, Mukta	5000
	Cauliflower	Pusa Shubra, Snowball-16	10000
	Broccoli	Fiasta	2000
	Red Cabbage	Primro	1500
FOREST SPECIES	Harr		200
	Bahera		200
	Chironji		1000
	Sagon		200
	Shisham		200

	Tendu	200
	Kaintha	200
	Bamboo	500
	Arjun	500
	Mahua	200
ORNAMENTAL CROPS	Manokamani	150
	Chandani	200
	Chameli	100
	Gurhal	250
	Ficus	50
	Croton	200
	Bottle palm	200
	Areca palm	50
	Coleus	400
	Morpankhi	200
	Rose	100
	Fire Bush	100
	Mussenda	100
	Ixora	100
	Areliya	50
	Clerodendron (Crimson red)	50
PLANTATION CROPS		
Others (specify)		

Bio-products

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

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
	Cattle			
	SHEEP AND GOAT			
	POULTRY			

FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

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

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

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

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

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1			
2			
3			
4			
5			
6			
7			
8			

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

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:...

List of equipments purchased:

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

Details of samples analyzed so far:

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

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSMa) Is ATMA implemented in your district **No**

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission: **No**

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 Project**

Month	Activity details	Targeted Beneficiaries	Targeted Area/Coverage
Feb	Exposure visit	50	ARYA beneficiaries
August	Training for poultry farming	50	Goat farming
August	Training for Goatery	50	Vermicompost production
September	Training for mushroom production	50	Mushroom production
July	Rural youth workshop (Agri-entrepreneur based)	100	Rural youth
October	Training for vermicompost production	50	Poultry farming
	Total	350	

Name of Flagship programmes – Natural farming

Month	Activity details	Targeted Beneficiaries
July to Dec	Training cum Awareness campaign on Natural Farming	1600
July	Demonstrations on Natural Farming practices in filed crop at KVK farm .	10
July	Demonstrations on Natural Farming practices in field crop farmers filed	10
Octo.	Farmers training on Natural Farming	40
Nov.	Demonstrations on Natural Farming practices in Potato crop	08
Dec to March	Farmers Workshop cum Awareness Program on Chemical	1200

	Free Natural Farming at Block level	
July	Demonstrations on Natural Farming practices in Potato crop	08

Name of Flagship programmes- Agri Drone

Month	Activity details	Targeted Beneficiaries	Targeted Area/Coverage
A)	Kharif		
Sept	Water Soluble Fertilizer application through Agri Drone (Rice)	25	20 ha
Sept	Pesticide Application for Gandhi Bug control through Agri Drone (Rice)	25	20 ha
Sept	Pesticide Application for Gandhi Bug control through Agri Drone (Kodo millet)	25	20 ha
Aug	Water Soluble Fertilizer application through Agri Drone (Blackgram)	25	20 ha
Aug	Pesticide Application for Yellow mosaic control through Agri Drone (Blackgram)	25	20 ha
Aug	Pesticide Application for Yellow mosaic control through Agri Drone (Soybean)	25	20 ha
Aug	Fungicide Application for Phytophthora blight control through Agri Drone (Sesame)	25	20 ha
	Total	175	140 ha
B)	Rabi Crops		
Nov	Water Soluble Fertilizer application through Agri Drone (Wheat)	25	20 ha
Nov	Water Soluble Fertilizer application through Agri Drone (Barley)	25	20 ha
Dec	Pesticide Application for Aphid Control through Agri Drone (Mustard)	38	30 ha
Dec	Pesticide Application for Pod Borer through Agri Drone (Chickpea)	25	20 ha
Nov	Water Soluble Fertilizer application through Agri Drone (Onion)	12	10 ha
Nov	Water Soluble Fertilizer application through Agri Drone (Potato)	12	10 ha
	Total	137	110 ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 400 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Pant sugandh 27, JRB 1, IR 64, Pant-10, JR 767, MTU 1010, JR 81, Swarna shreya, JR 201, Sonam, Kardhna, Kargi, Luchai, Sonkharchi, Bona doobraj, Pusa 1509, Pant basmati 1, Danteshwari.		
Blackgram	Kharif	Azad 3, Pratap urd, PU 40, IPU 94-1, IPU 2-43, Sekha 2, Azad 1, IPU 35, PU 31, Urd motichoor, uttrakhand urd.		
Small Millets	Kharif	Kodo millet, Finger millet, Little millet, Barnyard millet, Foxtail millet, Great millet.		
Greengram	Kharif	Pusa vishal, IPM 2-14, GM 4, IPM 2-3, Swati, PDM 139,		
Pigeonpea	Kharif	Balondha red, Desi safed, Balondha, Rajivlochan, Chaiti, chigri, TT 401, Pusa 992, TJT 501		
Sesame	Kharif	TKG 308, JTS 21, TKG 22, TKG 306, Shekhar, GT 1, JTS 8, JTS 9, RT 346, RT 351		
Wheat	Rabi	HD 3226, HI 8759, HI 1605, HI 1612, HI 8663, HI 8627, HI 8713, HI 8498, HI 1531, HI 1544, Black Wheat, HI 1454, JW 3173, JW 3382, HD-2932, HD 2967, HD 4728, HI 8777, HI 8737, CSW 18		
Chickpea	Rabi	JG 14, JG 12, JG 16, JG 63, JG 11, JG 130, JG 74, JG 03, JG 135, JG 01		
Lentil	Rabi	RVL 31, IPL 316, L 4076, IPL 406, L 4147, IPL 321, IPL 220, IPL 534, IPL 526		
Fieldpea	Rabi	IPF 49, IPFD 1-10, KPMR 400, IPFD 12-2, Aprana, IPF 519, IPF 99-25, IPFD 99-13, IPFD		

		11-5, IPFD 10-12		
Mustard	Rabi	Gucchhedar, PM 30, PM 28, Giriraj, Pusa mahak, Pusa tarak, PUSA 26, NRCHB 101, Pusa jaikishan, DRMR 150-35, RH 406, Pusa bold, RH 749, NDR 8501, Vardan, Laxmi, Bharat 3, YSH 401, RYSK 05-02, NRCYS 502		
Tomato	Rabi	Kashi Aman, Kashi Amrit, Arka Rakshak		
Brinjal	Rabi	NB 2, Deshi hara gola, Deshi hara lamba, Deshi baigni gola, Deshi baigni lamba,		
Peas	Rabi	VRP 9, VRP 22, Azad 1,		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mushroom Production	Mushroom Spawn, Fresh & dried Mushroom	34.72	450 kg
Poultry Farming	Egg, Chicks, Chicken	133.8	500
Goatery	Milks & Kids	107.26	10
Dairy	Milk	250.48	1500 lit
Vermicompost	Vermis , Vermicompost and Vermiwash	301.53	1000 kg
Natural Farmulation /Bio Production	Taral Jeevamrit , Ghan Jeevamrit, Neemastra, Bramhastra , Agniyastra etc.	41.28	3450 lit
Nursery	Sapling and Seedlings	699.22	425100
Seed Bank	Traditional & Improved Variety Seeds	85.5	5 q

ANNUAL ACTION PLAN 2023

KVK SEHORE

Year of sanction: December 1999

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

Name	Telephone / Contact		
	Office	Mobile	Email
Sri Sandeep Todwal	7000398271	9893470882	crdekvksehere@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	Mr. Sandeep Todwal	Scientist	Soil Science	Level-10	16/12/2010	2010	9893470882	sandeepodwal292gmail.com	
3	Subject Matter Specialist	Mr. Devendra Patil	Scientist	Agronomy	Level-10	26/12/2017	2017	8827176184	dpatil889@gmail.com	
4	Subject Matter Specialist	Mr. Dharmendra	Scientist	Ag. Extn.	Level-10	11/03/2019	2019	8889469911	lalu.khandwa@gmail.com	
5	Subject Matter Specialist	Mr. Deepak Kushwaha	Scientist	Plant Protection	Level-10	01/01/2018	2018	8840485018	deep.bhu1989@gmail.com	
6	Subject Matter Specialist (Horticulture)	Vacant								
7	Subject Matter (Specialist (Animal Husbandry))	Vacant								
8	Programme Assistant	Dr. Kusum Shukhwal	Programme Assistant	Home Science	Level- 6	05/02/2019	2019	8005660728	kusumsukhwal90@gmail.com	
9	Computer Programmer/ Programme Assistant	Mr. Akshay Kalkar	Programme Assistant	Computer	Level- 6	01/01/2018	2018	8518018553	akshaykalkar26@gmail.com	
10	Farm Manager	Mr. Pawan Jat	Farm Manager	Farm Manager	Level- 6	17/12/2021	2021	6263596949	pawanjat5383@gmail.com	
11	Assistant	Mr Shashikant Harde	Assitant	Accounts	Level- 6	01/08/2013	2013	8103505734	harde.shashikant@gmail.com	
12	Jr. Stenographer / Comp. Operator	Mr. Bhanu Pal Singh	Stenographer	Stenographer	Level- 4	25/01/2008	2008	8962156357	bhanukvk10@gmail.com	
13	Driver	Mr. Pradip Singh Rajput	Driver	Driver	Level- 3	18/08/2003	2003	9425661497	pradeepsinghrajput979@gmail.com	
14	Driver	Mr. Satish Upadhyay	Driver	Driver	Level- 3	04/03/2019	2019	9111066262	-	
15	Supporting staff	Mr. Ravishanker Raikwar	Office Attendant	Office Attendant	Level- 1	01/03/2001	2001	9993420677	-	
16	Supporting staff	Mr. Nirmal Kumar	Office Attendant	Office Attendant	Level- 1	25/08/2006	2006	9826998693	-	

1.3 Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	0.50
3.	Under Crops	12.50
4.	Orchard/Agro-forestry	3.00
5.	Others (specify)	1.78
Total-		18.68

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2005-06	500.00		-	-	-
2.	Farmers Hostel	ICAR	2007-08	305.00		-	-	-
3.	Staff Quarters (6)	ICAR	2007-08	400.00		-	-	-
4.	Fencing	ICAR	2007-08	3250.00		-	-	-
5	Threshing floor	ICAR	2004-05	225.00		-	-	-
6	Implement Shed	-	-	-	-	-	-	-
7	Poly House	-	-	-	-	-	-	-
8	Net House	-	-	-	-	-	-	-
9	Azola Unit	ICAR	2016-17	16.7	40000.00	-	-	-
10	Demonstration Units	ICAR	2007-08	160.0		-	-	-
11	Godown	ICAR	2007-08	60		-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Marshal	-	-	-	-
Motor Cycle	2000	0.00	-	Condemn
Bolero	2017	7,99,945.00	151636	Good condition

C) Equipments & AV aids

Name of the equipment	No.	Year of purchase	Cost (Rs.)	Present status
Projector	02	2013-14	-	Good condition
Xerox Machine	01	2016	-	Good condition
Generator	01	2016-17	-	Good condition
Video Camera	01	2016-17	-	Good condition
Computer, Laser Printer	02	2012 & 2017-18	-	Good condition
UPS 600 VA	01	2016-17	-	Good condition
Stabilizer 2 KVA	01	2016-17	-	Good condition
Stabilizer	Nil	-	-	-
Inverter 600 VA (2)	01	2016-17	-	Good condition
Inverter Battery (2)	01	2016-17	-	Replacement

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

Location:-

The district is situated at central part of Madhya Pradesh with longitude and latitude of 22°33'49" to 23°41'02" North and 76°26'55" to 78°01'59" on East respectively. It stands in the foothills of *Vindhyachal Range* in the middle of *Malwa* region. The District is spread over an area of 6,578 square km and it is surrounded by six districts viz.. Bhopal, Raisen, Hoshangabad, Dewas, Shajapur and Raigarh. Likewise the district is well connected to the Western Railway from Bhopal to Ratlam.



Demographic Profile:

District Sehore has total population **1311332** as per census 2011. The literacy level in the district is **71%**. The total SC and ST population comes in tune of **31.78%** in the district as per census 2011. Tehsil wise population details given in the table –

Name of the Tehsil	Population				SC		ST		General		Total	
	M	F	CH*	Total	No. of household	No. of Members	No. of household	No. of Members	No. of household	No. of Members	No. of household	No. of Members
Sehore	143539	131539	38501	275078	9646	48229	2226	11128	41227	215721	53098	275078
Ashta	131462	122000	36869	253462	13680	68399	1161	5806	35597	179257	50438	253462

Ichhawar	84198	78109	26299	162307	6801	34006	6677	33384	18628	94917	32106	162307
Nasrullaganj	91834	84429	28487	176263	5352	26760	9726	48630	17909	100873	32987	176263
Budni	48652	43254	12768	91906	2907	14535	2659	13296	13450	64075	19016	91906
Shyamपुर	80246	72108	24099	152354	5802	29008	452	2262	23870	121084	30124	152354
Jawar	56142	52319	16139	108461	8022	40109	1229	6147	12953	62205	22204	108461
Rehti	47670	43831	14267	91501	2047	10235	4972	24859	10319	56407	17338	91501
Total	683743	627589	197429	1311332	54256	271281	29102	145512	173952	894539	257311	1311332

Source: Census -2011)

Topography and Agro climatic characteristic:-

The district fall in the Vindhya plateau, as the zone is characterized by black soil mostly medium in depth. The major crop are grown in the region are Soybean and Wheat crop. The district has about 60% area is under medium black soil (30 - 60 cm depth) and about 20% deep (more than 60 cm depth) and about 20 % shallow soil (30 cm depth). The average mean sea level is falls in the range of 457 to 609 meter.



Soil Status:-

The district characterized by black *vertisols* mostly medium in depth, 60% area comes under medium black soil (30 to 60 cm depth) and about 20% deep black (more than 60 cm depth) and approximately 20% shallow black soil (30 cm depth). The soils are low in nitrogen (N), medium in phosphorus (P₂O₅) and medium in potash (K₂O). About 40 % soils of Sehore, Budani and Ashta have been reported deficient in micro nutrient especially Zink (Zn), Sulphur (S) and Boron (B), soil pH rage in the scale of 7.3 to 7.8 making the soil fit for cultivation of wide range of crops.

Climate and Meteorology:-

The district experiences the sub tropical climate. The annual rainfall of the district is about 1260 mm, which is mostly concentrated during the month of July and August some time it extends up to end September. The winter rains are also received but the frequency and timing are uncertain and they are undependable under normal rainfall situation.

The summers are very hot particularly during the day time and the winters are very cold. *Rabi* cropping becomes very difficult mostly depends on available soil moisture. If the rain recedes much earlier in the *Kharif* season, the *Rabi* prospects shows down trend. Average temperature in summer varies from 250C to 450C and average temperature in winter from 100C to 250C.

Average Annual Rainfall (mm)

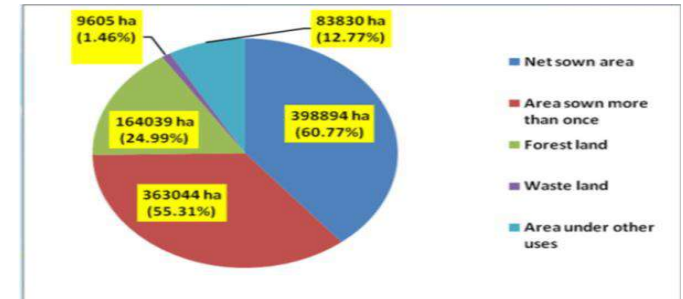
S.No.	Blocks	Year wise rainfall (mm)					(2017-18 to 2021-22)
		2017-18	2018-19	2019-20	2020-21	2021-22	Average
1	Sehore	815.0	1075.20	1820.8	1328.70	1004.40	1208.74
2	Ashta	692.0	789.65	1607.8	1325.30	952.00	1073.35
3	Ichhawar	933.2	931.00	1740.0	1425.00	1080.30	1221.90
4	Budani	1016.75	926.60	1729.8	1727.70	1050.00	1290.17
5	Nasrullaganj	948.0	603.2	1937.0	1277.00	1108.00	1174.64
Average		880.99	864.29	1767.08	1416.74	1038.94	1193.60

Land use pattern:- The total arable land of Sehore district is 398894 ha, out of which, the irrigated area is about 68%. The major crop grown in *Kharif* season are Soybean, Rice, Maize, Jowar, Pigeon pea and Wheat, Chickpea and sugarcane are the popular crops in *Rabi* season.

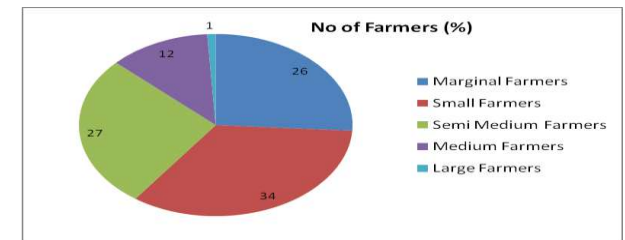
Land Use Pattern:-

S. No.	Particulars	Details
01	Total geographical area (ha)	656368
02	Net sown area (ha)	398894
03	Area sown more than once in the year (ha)	363044
04	Gross cropped area (ha)	761938
05	Forest land (ha)	164039
06	Waste land (ha)	9605
07	Land under other uses (ha)	83830

(Source: Land record)



Details of land holdings in the district (2017) – The size of operational holding plays an important role in understanding the prevailing farming system, dependent livelihoods, quality of rural life and corresponding farm economy of the any area. Higher occurrence of smaller holdings, skewed land distribution among Landholders, land capabilities and its. utilization, quality of land and its current status are some of the key Farameters determines the pace of development in agriculture sector. The district >62% of the land owners posses 49.68% land belonging to small and medium category of the farmers, >18% of the marginal farmers owns only a meager 6%, while 19% of the bigger land owners posses 42% land. The skewed ownership aggravates the problems and production potential of the district.



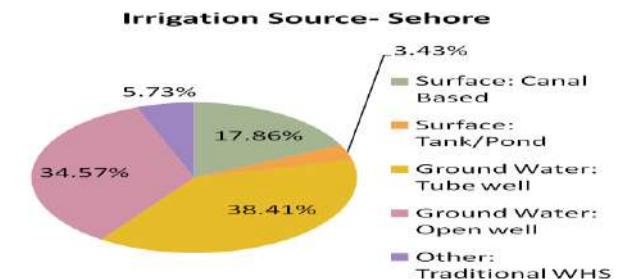
Type of Farmers	No.	Percentage	Area in (ha.)	Percentage
Marginal Farmers (Less than 1 ha.)	64684	26.0	25221	6.3
Small Farmers (1-2 ha.)	72277	34.0	82299	20.6
Semi Medium Farmers (2-4 ha.)	45397	27.0	114015	28.5
Medium Farmers (4-10 ha.)	20315	12.0	136461	34.2
Large Farmers (More than 10 ha.)	1486	0.9	40898	10.2
Total	204159	-	398894	-

Source- DPO, Sehore

Irrigation : -The district has good potential for irrigation through different sources, though there are no major or medium irrigation scheme in the district, however, minor lift irrigation schemes, dug well, water harvesting structures, seasonal rivers and other sources provides water for irrigation. The water use and its efficiency, however, remain under question

Irrigation potential of district: -

S No	Sources	Area (ha)	%
A	Surface Irrigation		
1	Canal Based	69607	17.86
2	Tanks/Ponds/ Reservoirs	13365.7	3.43



	<i>Total</i>	82972.7	21.28
B	Ground Water		
1	Tube wells	124824	38.41
2	Open Wells	97755	34.57
	<i>Total</i>	222579	72.99
C	Other Sources- Traditional WHS	22136	5.73
	Grand Total (A+B+C)	327687.73	100

Production and productivity of major crop:-

Sehore is developing district of the state & important district for agriculture point of view. Here major crops grown in the district are Soybean, Maize, Paddy in Kharif however wheat & Chickpea in Rabi season. The prominent cropping system prevails in the district are Soybean – Wheat, Soybean – Chickpea and Paddy – Wheat. The productivity of the major crop is not better since the crops are dependent on rains. The Sharbati Wheat of the district is very popular in producing good quantum of wheat which supplying to the western part of the country. Present production and productivity of major crop in the district is given as an under:-

Present status of major crops in Sehore

Year	Soybean			Paddy			Pigeon pea			Wheat			Chickpea			Green Gram		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
2017-18	275.16	335.70	1220.0	31.87	133.84	4200.0	5.45	7.19	1320.0	244.50	904.64	3700.0	96.42	164.79	1709.0	33581	37274	1110
2018-19	290.00	390.63	1347.00	32.90	118.44	3600.00	6.60	9.11	1380.00	245.00	882.00	3600.0	107.80	199.43	1850.0	13385	13117	979
2019-20	343.44	257.58	750.0	33.79	135.16	4000.0	2.85	2.42	850.0	341.4	1604.8	4700.0	94.0	188.00	1890.0	13455	13120	985
2020-21	315.39	509.51	1450	34.10	156.86	4600	1.7	1.9	1150	333.55	1500.97	4500	52.19	93.94	1800	74442	111142	1493
2021-22	282.18	372.47	1320	51.45	237.69	4620	1-80	1.4	815	335.56	1689.2	5034	47.14	87.68	1860	88510	129580	1470
Average	301.23	373.178	1217.4	36.822	156.398	4204	5847.52	4.404	1103	300.002	1316.322	4306.8	79.51	159.975	1821.8	44674.6	60846.6	1207.4

A = Area (000ha)

P = Production (000 Ton)

Y = Productivity (kg/ha.)

Horticulture:-

Beside the area under field crops, significant area comes under the horticultural crops; the district register area under different horticulture is 40831.81 ha with an aggregate production of 617969.37 MT. The vegetable production from around 20182 ha of land under vegetable cultivation is a little more than 373560 MT. Similarly the good amount of land comes under fruit crops *i.e.* 7069 ha and production is about 156167 MT. Beside this there are sizable land comes under spices 12242 ha and production is 74325 MTs similarly 946 ha area comes under flower cultivation and 9994 MTs and medicinal plants 392 ha and 1923 MT production

Area and Production of Horticultural Crops of Sehore district

(Area in ha, production in MT)

Year	Fruit		Vegetable		Spices		Flowers		Medicinal	
	Area (ha.)	Production	Area	Production	Area	Production	Area	Production	Area	Production
2018-19	4934.00	106689.0	15518	290043.0	9555.0	58957.0	555.0	5804.0	11.30	42.13
2019-20	5149.0	114471.0	13158.0	229360.0	9582.0	59242.0	555.0	5813.0	11.30	42.13
2020-21	5205.2	118945.0	13956.0	232850.0	1062.0	60145.0	789	8410	212	1625
2021-22	7069	156167	20182	375560	12242	74325	946	9994	392	1923

(Source: Department of Horticulture, Sehore)

Details of Horticulture Nursery available in the district

S. No.	Name of Block	Location	Area (ha)	Current Status
1	Sehore	Mahuakheda	7.63	Mango, Aonla Citrus Guava
2	Asta	Asta	2.00	Guava, Citrus, Ratanjot
		Gadrakhedi	5.00	-
3	Ichhawar	Jamli	16.00	Mango, Guava, Citrus, Neem
4	Budni	Peelikarar	5.00	Mango, Guava, Citrus, Neem
5	Nasrullganj	Satrana	5.00	Mango, Guava, Citrus, Neem, Jackfruit, Neem

Source- DOH Sehore

Livestock :-

The economy of Sehore district is primarily agriculture and livestock based. There is good quantum of animal resources in the district. As the metro like Bhopal is near to Sehore district hence, the scope for the increase the production potentiality of the animals. Simultaneously additional employments may also be generating for the community. As forest is disappeared rapidly so that there is considerable decrease in the fodder production as mostly there is the practice of the open grazing in the rural areas. With the continues deficit in rainfall the possibilities of rain water conservation above and below the ground is decreased since traditional tanks are also neglected. In the absences of effective rainfall fodder production and water for drinking to animals is very difficult in the region.



(Source: Dept. of Animal Husbandry and Veterinary Services)

Block	Small animals					Large animals		Draught animal
	Poultry	Ducks	Pigs	Goat	Sheep	Cow	Buffalo	
Sehore	242585	0	326	20472	0	60245	46498	5051
Ashta	21258	0	384	31535	90	70905	59560	0
Ichhawar	18650	0	276	25427	0	82479	37612	0
Nasrullaganj	15310	0	443	17908	0	59771	37211	0
Budhni	5824	0	0	9793	0	34868	14205	5023
Total	303627	0	1429	105135	90	308268	195086	10074

Production of Animal produces in the District

S.No.	Product	Production
01	Milk	155 Lakh Lit.
02	Meat	407.3 MT
03	Eggs	106.46 Lakh No.

(Source: Dept. of Animal Husbandry and Veterinary Services)

Fisheries:-

Sehore district has also got a good potential for fisheries. Fisheries can be a viable option for employment generation in various villages, if practiced technically. The district has got 92 village ponds and 3 irrigation tanks with total area 404177 ha. & Production 12.034 MT.

Water body	Area (ha.)	Production (Qtl.)	Productivity (Qtl./ha.)
Ponds (self)	4844.40	89621.4	18.5
Ponds (Irrigation Department)	3520.26	5984.442	1.7
Total	8364.66	95605.84	10.1

SWOT ANALYSIS -

SWOT Analysis is a strategic planning tool used to evaluate the Strengths, Weaknesses, Opportunities, and Threats involved in project or programme. It involves specifying the objective of the project and identifying the internal and external factors that are favorable and unfavorable to achieving that objective.

STRENGTH

There are number of strengths in the district, which need to be further strengthened and optimally harnessed to remove the existing state of poverty, backwardness and underdevelopment:

- Suitability of climate and soil (medium black) for various, Cereals, Oilseeds (soybean) Pulses & Horticultural crops.
- Excellent institutional support- Agriculture collage, Krishi Vigyan Kendra, Farm machinery training & testing centre etc.
- 78.2 % area under irrigation.
- 60.29 % area under cultivation of total geographical area.
- Sufficient average rainfall (1261.2 mm.)
- Sufficient availability of Agriculture labors.
- Good marketing connectivity (Road & rail etc.) to the metro cities.
- Quality wheat producing district.
- Existing Poultry and milk industries well established and functional.

WEAKNESS

Like in all the places, there are a large number of weaknesses in the district, which is responsible, to an extent, for its backwardness. Here's a list of some of the weaknesses of the district comprising of both the problems and the constraints: -

Unavailability of quality inputs i.e. seeds & planting material and their quality and timely availability.

- Proper marketing channels for commodity chain are not well developed.
- Inadequate power (electricity) supply limiting to obtain optimum production potential.
- Focus on post harvest and storage management is very low.

- Undulated land.
- Diversifications of the farming system is very low
- Lack of awareness toward market demand at farmer's level.
- Numbers of small and marginal farmers are more which is limiting to take innovation / diversification.
- Farmers' attitude and traditional practices for the farming limiting to get optimum production potential.

OPPORTUNITIES

If one look at the strengths that are there in the district and observe the weaknesses of the district, one can easily find a lot of opportunity areas to work on, to take the district of the path of development. Here are some of the 'opportunities', clearly evident from the profile of the district, the strengths that operate in favour of the district and the weaknesses that one need to work towards addressing:

- Potential for crop/ agriculture and other components of the farming system diversification.
- Establishment of the education hubs (for agriculture- technology and latest Technical knows how).
- Strengthen the existing supply system and organize up-gradation course for the staff.
- Opportunity cost for the labour is comparatively low and labour available.
- Scope for organic cultivation enough quantity of the required material required for the same is available in sufficient quantity.
- Floriculture- an option as district is near to metro.
- Gap in production potential of the prominent crops.
- Easy e- extension in rural areas due to IT revolution in the country.
- Improving purchasing capacity.
- The dairy and diary product can be an opportunity for the marginal and small farmers.
- The farm mechanization can be enhance as the required industries are readily available as and required for.
- Scope exists to increase the returns to farmers by establishing small agro processing units in production catchments.
- Scope for entrepreneurship development for custom hiring of high capacity and costly farm machinery.
-

Threats –

- Over exploitation of the ground water and subsequent decline in water table.
- Small & reducing size of land holdings with associates constraints of being Resource poor, low risk taking abilities, thereby extension of new technologies further difficult.
- Natural calamities like draughts, pest and disease appearance.
- Deterioration in soil health.
- Biological and environmental degradation.

Major Problems in District :-

- ❖ Lack of high yielding varieties/ hybrids in field crops.
- ❖ Poor seed replacement rate & negligible seed treatment.
- ❖ Heavy incidence of insect & diseases.
- ❖ Heavy infestation of weeds in Kharif crops.
- ❖ Imbalance use of fertilizer declining soil health.
- ❖ Lack of soil & water conservation techniques.
- ❖ Low input use efficiency.
- ❖ Slow crop diversification under Horticultural crop and Integrated Farming System
- ❖ Poor adoption of latest technologies at farmers part.
- ❖ High post harvest losses (10 – 12 % in grain, 25 – 30 % in vegetable & fruit crops).

- ❖ Poor credit support particularly small & marginal farmers.
- ❖ Weak transfer of technology system.

DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
SEHORE	Kothara Pipalya	2016	Nasrullaganj	68 Km.	1486	355
SEHORE	Bijlon	2017	Sehore	50 Km	2141	424
SEHORE	NarsinghKheda	2018	Ichhawar	25 Km.	2008	407
SEHORE	Gawakheda	2019	Ashta	29 Km.	2255	217
SEHORE	Bawadiya Chor	2021	Ichhawar	28 Km.	1238	238

Details of Operational area / Villages (31st December, 2022)

S.No	KVK	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
01	SEHORE	Ichhawar	Narsinghkheda	<ul style="list-style-type: none"> ➤ Soybean ➤ Maize ➤ Paddy ➤ Black Gram ➤ Wheat ➤ Chickpea ➤ Lentil ➤ Green Gram ➤ Dairy ➤ Poultry ➤ Animal Husbandry 	<p>Soil health</p> <ul style="list-style-type: none"> • High Soil erosion due to undulation & non bunding of farms • Deterioration in Soil health due to adoption of Soybean – Wheat , Paddy – Wheat, Soybean- Chickpea cropping system • Deterioration in soil health due to imbalance use of plant nutrient • Lack of knowledge about bio fertilizer & its application 	<ul style="list-style-type: none"> ➤ Soil Health Management, Crop management Practices (CMP) ➤ Horticulture & Végétales Corps (H & VC) ➤ Animal Science (A S) ➤ Integrated Plant Protection Techniques (IPPT) ➤ Women in Agriculture. (W A) ➤ Implements & Farm Machinery (I & FM) ➤ Natural Resource Management (NRM) ➤ Livelihood & Nutritional Security ➤ Doubling Farmers income
02	SEHORE		Golukhedi			
03	SEHORE		Bawadiya Chor			
04	SEHORE	Asta	Gular Chhapari			
05	SEHORE		Gwakheda			
06	SEHORE		BheelKhedi			
07	SEHORE		Bafapur			
08	SEHORE	Sehore	Mehtwada			
09	SEHORE		Bijlon			
10	SEHORE		Heerapur			
11	SEHORE		Ramakhedi			
12	SEHORE		Thuna Pachama			
13	SEHORE		Bichhia			
4	SEHORE	Nasrullaganj	Kothra Pipalya & Kankaria	<ul style="list-style-type: none"> ➤ Lack of awareness about seed treatment ➤ Weed infestation in Crops ➤ Low yield due to Old varieties, No use of Recommended Package of Practices ➤ Low water use efficiency ➤ Low fertilizer use efficiency due to imbalance use of fertilizer ➤ Heavy infestation of insect & disease ➤ Slow crop diversification in Horticultural crops ➤ Low adoption of farm mechanization ➤ High post harvest losses in grain, vegetable & Fruits crops ➤ Poor adoption of technology by Farmers ➤ Weed infestation of crops ➤ Water stress in critical stages of plant growth 		

THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	THRUST AREA
SEHORE	Soil Health Management, Crop management Practices (CMP)
SEHORE	Horticulture & Végétales Corps (H & VC)
SEHORE	Animal Science (A S)
SEHORE	Integrated Plant Protection Techniques (IPPT)
SEHORE	Women in Agriculture. (W A)
SEHORE	Implements & Farm Machinery (I & FM)
SEHORE	Natural Resource Management (NRM)
SEHORE	Livelihood & Nutritional Security
SEHORE	Doubling Farmers income by 2021-22
SEHORE	Resource Management (Water & Energy saving)
SEHORE	Introduction of recommended improved varieties
SEHORE	Processing, Post harvest and Storage facilities.
SEHORE	Conservation Agriculture Technologies
SEHORE	Application of Integrated Technology (IWM, ICM)

PROBLEM IDENTIFIED by KVK -

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block	
SEHORE	<ul style="list-style-type: none"> • Weed infestation in Crops • Low yield due to Old varieties, • Lack of Improved Machineries for time and energy saving • High Seed rate • Un availability of quality seeds • Water stress in critical stages of plant growth • Soil & Water Erosion • Soil Health Deterioration • Imbalance Use of Plant Nutrient • Low Fertilizer use Efficiency • Poor Adoption of Integrated Nutrient Management • No use of Bio –Fertilizer • Poor Adoption of Organic Input Product • Incidence of disease • Infestation of Insects • Low productivity of vegetables crop • Unemployment of rural youth • Week transfer of technology system • Low milk production of cattle's & buffalos • Unavailability of Green fodder round the year 	PRA, Field visit, Individual contact	Kothara Pipalya, Baya Bijlon NarsinghKheda Gawakheda Bawadiya Chor	Nasrullaganj Budni Sehore Ichhawar Ashta Ichhawar

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	245	20	229

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
82	1860	532	11181

Seed Production (Qtl.)	Planting material (Nos.)
273	5000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Introduction of recommended improved varieties	Green gram	Low yield of green gram due to old varieties and existing varieties are late mature	-	Demonstration of Green gram variety IPM 205-7 (Virat) in summer season	Improved agronomic techniques of summer green gram	-	Field day Field visit	Seed gram variety IPM 205-7 (Virat)
2	Weed management	Soybean	Low yield of soybean due to heavy infestation of weeds in early stage	Assessment of weed management in soybean .	-	-	-	Group meeting	Herbicide
3	Introduction of recommended improved varieties	Soybean	Low yield of soybean due to existing varieties eg. JS-9560, JS-2034	Assessment of soybean variety RVSM 2011-35 (RVSM-35) under soybean-wheat cropping	-	-	-	Group meeting	Seed soybean variety RVSM 2011-35

				system					
4	Weed management	Soybean	Low yield of soybean due to heavy infestation of weeds in early stage	-	Weed management in soybean under Soybean- Wheat Cropping System	Weed management in soybean	Weed management in soybean	Field day Field visit Group meeting Method demonstration	Herbicide
5	Crop diversification	Maize	-	-	Diversification of soybean through Hybrid Maize	Diversification of soybean through Hybrid Maize	Diversification of soybean through Hybrid Maize	Field day Field visit Group meeting	Seed
6	Nutritional security	Pigeon pea	Lack of protein in daily diet and no use of waste land	-	Demonstration of pigeon pea cultivation in waste land for nutritional security.	pigeon pea cultivation in waste land	pigeon pea cultivation in waste land	Field day Field visit Group meeting	Seed
7	Crop diversification	Sorghum	Not grow millet (sorghum) and exist crop not use in daily diet	Assessment of diversification through millet (Sorghum) in soybean-chickpea cropping system.	-	-	-	Group meeting	Seed
8	Weed management	Wheat	Low yield of wheat due to heavy infestation of broad leaved weeds	Assessment of weed management in wheat	-	-	-	Group meeting	Herbicide
9	Introduction of recommended improved varieties	Wheat	Low yield of Wheat and lack of nutrition due to use of old varieties	-	Demonstration of Wheat variety HI-1634 (Pusa Ahilya)	Improved agronomic technologies of Wheat cultivation	Improved agronomic technologies of Wheat cultivation	Field day Field visit Group meeting	Wheat variety HI-1634 (Pusa Ahilya)
10	Introduction of recommended improved varieties	Chickpea	Low yield of chick pea due to use of old varieties (Vishal)	-	Demonstration of Chick pea variety RVG-204	Improved agronomic technologies of Chickpea cultivation	Improved agronomic technologies of Chickpea cultivation	Field day Field visit Group meeting	Chick pea variety RVG-204

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

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of weed management in soybean	
Problem diagnosed	Low yield of soybean due to heavy infestation of weeds in early stage	
Farmers' Practices	Apply Post Emergence herbicide	
Details of technologies selected for assessment	T1	Pre emergence herbicide Pendimethalin 30 EC@1.0 liter / ha
	T2	Preemergence herbicide Sulfentrazone + Clomazone 58 % WP (F 8072) premix @ 725 g a.i./ha
Source of technology	Indian Institute of Soybean Research, Indore-2018	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	5500	
Critical input	3500	
Performance indicators:	-	
(i) Technical-	Weed Density per meter squ., No. of Pods/plant, Test Wt (g), Yield (q/ha)	
(ii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(iii) Social – Employment generation	-	

Detailed Information about OFT (1): Kharif

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Preemergence herbicide Sulfentrazone + Clomazone 58 % WP (F 8072) premix @ 725 g a.i./ha in soybean
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of soybean due to heavy infestation of weeds in early stage
Thematic area:	CMP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Farmers Practice – Apply Post Emergence herbicide
T2 –Recommended Practice-	T2 – Pre emergence herbicide Pendimethalin 30 EC@1.0 liter / ha
T3- Recommended Practice-	T3 – Preemergence herbicide Sulfentrazone + Clomazone 58 % WP (F 8072) premix @ 725 g a.i./ha
Date of sowing:	June 2023
Date of harvesting:	-
Source of technology:	Indian Institute of Soybean Research, Indore-2018
Characteristics of technology:	Effective control of Monocot and dicot weeds in soybean
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -2 Agronomy

Crop / Enterprise	Sorghum	
Title of on farm trial	Assessment of diversification through millet (Sorghum) in soybean-chickpea cropping system.	
Problem diagnosed	Not grow millet (sorghum) and exist crop not use in daily diet	
Farmers' Practices	Soybean	
Details of technologies selected for assessment	T1	Maize var. Hybrid
	T2	Sorghum Var. RVJ-2357
Source of technology	RVSKVV, Gwalior-2022	
Plot size	0.2 ha	
No. of farmers	10	
Total cost	4000	
Critical input	6000	
Performance indicators:	-	
(i) Technical-	Yield Q/ha, Consumption per day	
(ii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(iii) Social – Employment generation	-	

Detailed Information about OFT (2): Kharif 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 diversification through millet (Sorghum) in soybean-chickpea cropping system.	
Year/Season:	2023/ Kharif	
Farming situation:	Restricted Irrigated	
Problem diagnosis:	Not grow millet (sorghum) and exist cropping system gain low income	
Thematic area:	CMP	
No of trials:	05	
No. of farmers involved	05	
Type of OFT (Assessment/ Refinement):	Assessment	
Details of technology selected for assessment/ refinement:		
T1 – Farmers Practice-	T1 – Farmers Practice – Soybean	
T2 –Recommended Practice-	T2 – Maize var. Hybrid	
T3- Recommended Practice-	T3 – Sorghum Var. RVJ-2357	
Date of sowing:	June 2023	
Date of harvesting:	-	
Source of technology:	RVSKVV, Gwalior-2022	
Characteristics of technology:	Doul purpose high yield sorghum variety (35-43 q/ha), Moderately tolerent to shoot fly, stem borer and grain mold	
Name of Crop/Enterprises:	Sorghum	
Recommendations for Farmers	-	
Recommendations for Deptt. Personnel	-	
Feedback	-	

OFT -3 Agronomy

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of soybean variety RVSM 2011-35 (RVSM-35) under soybean- wheat cropping system	
Problem diagnosed	Low yield of soybean due to existing varieties eg. JS-9560, JS-2034	
Farmers' Practices	Soybean Var. JS-9560	
Details of technologies selected for assessment	T1	Soybean Var. JS 2034
	T2	Soybean Var. RVSM 11-35
Source of technology	RVSKVV, Gwalior-2021	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	7500	
Critical input	9500	
Performance indicators:	-	
(i) Technical-	No. of Pods, No. of Seeds, Test Wt., Yield (q/ha),	
(ii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(iii) Social – Employment generation	-	

Detailed Information about OFT (3): Kharif 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 soybean variety RVSM 2011-35 (RVSM-35) under soybean- wheat cropping system
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of soybean due to existing varieties eg. JS-9560, JS-2034
Thematic area:	CMP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Farmers Practice – Soybean Var. JS-9560
T2 –Recommended Practice-	T2 – Soybean Var. JS-2034
T3- Recommended Practice-	T3 – Soybean Var. RVSM-1135
Date of sowing:	June 2023
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior-2021
Characteristics of technology:	Climate resilient variety, suitable for mechanical harvesting, medium resistance to YVM
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -4 Agronomy

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of weed management in wheat	
Problem diagnosed	Low yield of wheat due to heavy infestation of broad leaved weeds	
Farmers' Practices	Apply 2,4-D	
Details of technologies selected for assessment	T1	POE, Clodinofof + Metsulfuron methyl 400 g/ha
	T2	POE, Halauxifen + Fluroxypyr @ 200.6 (6.1+194.5) g/ha
Source of technology	IIWBR, Karnal-2021	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	3000	
Critical input	5000	
Performance indicators:	-	
(i) Technical-	No. of Tillers, No. of ears, Weed Density, Test Wt., Yield (q/ha)	
(ii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
(iii) Social – Employment generation	-	

Detailed Information about OFT (4): Kharif 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 post emergence herbicide Halauxifen + Fluroxypyr @ 200.6 (6.1+194.5) g/ha in wheat
Year/Season:	2023/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to heavy infestation of broad leaved weeds
Thematic area:	CMP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Farmers Practice – 2,4-D
T2 –Recommended Practice-	T2 – POE, Clodinofof + Metsulfuron methyl 400 g/ha
T3- Recommended Practice-	T3 – POE, Halauxifen + Fluroxypyr @ 200.6 (6.1+194.5) g/ha
Date of sowing:	Nov 2023
Date of harvesting:	-
Source of technology:	IIWBR, Karnal-2021
Characteristics of technology:	Effective control of broad leaved weeds
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- Soil Science
OFT-5

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of Sulphur along with recommended dose of plant nutrient as per soil test value in Soybean crop.	
Problem diagnosed	Low yield due to Imbalance use of Plant Nutrient in Soybean crop.	
Farmers' Practices	Imbalance use of plant nutrient (09:23:00 NPK kg/ha)	
Details of technologies selected for assessment	T1	Imbalance use of plant nutrient (09:23:00 NPK kg/ha)
	T2	Balance use of plant nutrient (20:60:20 NPK kg/ha)
Source of technology	IISS, Bhopal	
Plot size	6 ha	
No. of farmers	10	
Total cost	Rs. 7600.00	
Critical input	MOP & Sulphur 80%	
Performance indicators:		
(iv) Technical-	No. of pods/Plant, No. of seeds/pod, Test weight (g.) , Yield (qtl./ha)	
(v) Economic	Cost of cultivation, Gross income (Rs./ha.), Net income (Rs./ha.), B:C ratio	
(vi) Social – Employment generation	-	

Detailed Information about OFT (5): Soil Science

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Sulphur along with recommended dose of plant nutrient as per soil test value in Soybean crop
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to Imbalance use of Plant Nutrient in Soybean crop.
Thematic area:	SFM.
No of trials:	10 No.
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of plant nutrient (09:23:00 NPK kg/ha)
T2 –Recommended Practice-	Balance use of plant nutrient (20:60:20 NPK kg/ha)
T3- Recommended Practice-	Balance use of plant nutrient (20:60:20 NPK kg/ha) + 40 kg/ha. sulphur.
Date of sowing:	June – 2023
Date of harvesting:	October – 2024
Source of technology:	IISS, Bhopal
Characteristics of technology:	Application of Sulphur & Balance use of Plant Nutrient as per STV, Increase yield and quality of Soybean crop.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- Soil Science
OFT-6

Crop / Enterprise	Maize
Title of on farm trial	Assessment of Nano- Nitrogen technology in Hybrid Maize crop.
Problem diagnosed	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Farmers' Practices	One time application of nitrogen 170 kg/ha through Urea
Details of technologies selected for assessment	T1 Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
	T2 Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Source of technology	ICAR- CIRCOT, Nagpur & IFFICO
Plot size	2 ha
No. of farmers	05
Total cost	Rs. 2400
Critical input	Nano-Urea
Performance indicators:	
(i) Technical-	No. of cob/Plant, Test weight (g.) , Yield (qtl./ha)
(ii) Economic	Cost of cultivation, Gross income (Rs./ha.), Net income (Rs./ha.), B:C ratio
(iii) Social – Employment generation	-

Detailed Information about OFT (6): Soil Science

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Nano- Nitrogen technology in Hybrid Maize crop.
Year/Season:	2023/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One time application of nitrogen 170 kg/ha through Urea
T2 –Recommended Practice-	Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
T3- Recommended Practice-	Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Date of sowing:	June – 2023
Date of harvesting:	October – 2023
Source of technology:	
Characteristics of technology:	Enhancing fertilizer use efficiency and reduce input cost
Name of Crop/Enterprises:	Hybrid Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- Soil Science
OFT-7

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of Foliar application of water soluble plant nutrient and micronutrient Zn & B on yield and quality of Tomato.
Problem diagnosed	Low yield ,quality and fruit set due to Nutrient deficiency
Farmers' Practices	Application of 120:75:40 NPK kg/ha
Details of technologies selectedfor assessment	T1 Application of 120:75:40 NPK kg/ha.
	T2 Application of 120:75:40 NPK kg/ha.+ Foliar application of NPK 18:18:18 at 30 and 45 DAT.
Source of technology	IIVR, Varanasi (U.P.)
Plot size	0.45 ha
No. of farmers	05
Total cost	Rs. 2250
Critical input	NPK 18:18:18, Zinc Sulphate, Borax
Performance indicators:	
(i) Technical-	No. of fruit /Plant, Average Fruit Weight (g), Yield (q/ha)
(ii) Economic	Cost of cultivation, Gross income (Rs./ha.), Net income (Rs./ha.), B:C ratio
(iii) Social – Employment generation	-

Detailed Information about OFT (7): Soil Science

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Foliar application of water soluble plant nutrient and micronutrient Zn & B on yield and quality of Tomato.
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield ,quality and fruit set due to Nutrient deficiency
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of 120:75:40 NPK kg/ha.
T2 –Recommended Practice-	Application of 120:75:40 NPK kg/ha.+ Foliar application of NPK 18:18:18 at 30 and 45 DAT.
T3- Recommended Practice-	Application of 120:75:40 NPK kg/ha.+ Foliar application of NPK 18:18:18 at 30 and 45 DAT.+ Foliar application of Zinc 0.5 % and Baron 0.1 % at 30 and 45 DAT.
Date of sowing:	September – 2023
Date of harvesting:	February – 2024
Source of technology:	
Characteristics of technology:	Foliar application Of NPK, Zn & B increase yield and quality of Tomato
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- Soil Science
OFT-8

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Nano- Nitrogen technology in wheat crop.
Problem diagnosed	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Farmers' Practices	One time application of nitrogen 170 kg/ha through Urea
Details of technologies selected for assessment	T1 Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
	T2 Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Source of technology	ICAR- CIRCOT, Nagpur & IFFICO
Plot size	2 ha
No. of farmers	05
Total cost	Rs. 2400
Critical input	Nano- Urea
Performance indicators:	
Technical-	No. of effective tiller/ plant, Test weight (g), Yield (q/ha)
(i) Economic	Cost of cultivation, Gross income (Rs./ha.), Net income (Rs./ha.), B:C ratio
(ii) Social – Employment generation	-

Detailed Information about OFT (8): Soil Science

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Nano- Nitrogen technology in wheat crop.
Year/Season:	2023-24/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One time application of nitrogen 170 kg/ha through Urea
T2 –Recommended Practice-	Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
T3- Recommended Practice-	Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Date of sowing:	October – 2023
Date of harvesting:	March – 2024
Source of technology:	
Characteristics of technology:	Enhancing fertilizer use efficiency and reduce input cost
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- Soil Science
OFT-9 (In Progress)

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Jeevamrit and GhanJeevamrit on growth and yield of Soybean & Chickpea crop	
Problem diagnosed	High production cost of cultivation and toxicity of chemical fertilizer/ pesticide in crop and soil	
Farmers' Practices	Recommended dose of plant nutrient NPK 20:60:20 kg/ha through fertilizer in soybean and chickpea crop	
Details of technologies selected for assessment	T1	Recommended dose of plant nutrient NPK 20:60:20 kg/ha through fertilizer in soybean and chickpea crop
	T2	Application GhanJeevamrit @ 5 q/ha and foliar spray of Jeevamrit @ 100 ml/liter of water at 15 days interval in Soybean & Chickpea crop
Source of technology	Natural Farming Technology (Shri SubhashPalakar)	
Plot size	4 ha	
No. of farmers	05	
Total cost	-	
Critical input	200 liter Dram, Jaggery & Chickpea flour	
Performance indicators:		
Technical-	No. of Pods/ plant, No. of seeds/pod , Test weight (g), Yield (q/ha), Fertilizer Saving	
(i) Economic	Cost of cultivation, Gross income (Rs./ha.), Net income (Rs./ha.), B:C ratio	
(ii) Social – Employment generation	-	

Detailed Information about OFT (9): Soil Science

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Jeevamrit and GhanJeevamrit on growth and yield of Soybean & Chickpea crop
Year/Season:	2023/ Kharif/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	High production cost of cultivation and toxicity of chemical fertilizer/ pesticide in crop and soil
Thematic area:	NRM
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Recommended dose of plant nutrient NPK 20:60:20 kg/ha through fertilizer in soybean and chickpea crop
T2 –Recommended Practice-	Application GhanJeevamrit @ 5 q/ha and foliar spray of Jeevamrit @ 100 ml/liter of water at 15 days interval in Soybean & Chickpea crop
T3- Recommended Practice-	-
Date of sowing:	June 2023
Date of harvesting:	March 2024
Source of technology:	Natural Farming Technology (Shri SubhashPalakar)
Characteristics of technology:	Microbial prepared GhanJeevamrit and Jeevamrit promotes biological activity in soil and enhances nutrient availability and uptake by the crop
Name of Crop/Enterprises:	Soybean& Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Details of On Farm Trial (OFT)- Soil Science

OFT-10 (In Progress)

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Nano- Nitrogen technology in wheat crop.	
Problem diagnosed	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea	
Farmers' Practices	One time application of nitrogen 170 kg/ha through Urea	
Details of technologies selected for assessment	T1	One time application of nitrogen 170 kg/ha through Urea
	T2	Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
Source of technology	ICAR- CIRCOT, Nagpur and IFFICO	
Plot size	2 ha	
No. of farmers	05	
Total cost	-	
Critical input	Nano-Zn and Nano- Nitrogen, Urea	
Performance indicators:		
Technical-	No. of effective tiller/plant, Test Weight (g), Yield (q/ha)	
(i) Economic	Cost of cultivation, Gross income (Rs./ha.), Net income (Rs./ha.), B:C ratio	
(ii) Social – Employment generation	-	

Detailed Information about OFT (10): Soil Science

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Nano- Nitrogen technology in wheat crop.
Year/Season:	2022-23/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One time application of nitrogen 170 kg/ha through Urea
T2 –Recommended Practice-	Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
T3- Recommended Practice-	Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Date of sowing:	October – 2022
Date of harvesting:	March – 2023
Source of technology:	ICAR- CIRCOT, Nagpur and IFFICO
Characteristics of technology:	Enhancing fertilizer use efficiency and reduce input cost
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- Plant Protection**OFT-11**

Crop / Enterprise	Okra & Bitter Gourd	
Title of on farm trial	Assessment of ITK practice for the management of insect-pest by spraying of starch, animal urin and dusting of cowdung ash in vegetables (Okra & bitter gourd)	
Problem diagnosed	Low yield of vegetables due to infestation of insect-pest (Average yield losses up to 15-20%)	
Farmers' Practices	Application of insecticide only.	
Details of technologies selected for assessment	T ₁	Application of insecticide only.
	T ₂	spraying of starch, animal urin and dusting of cowdung ash in vegetables three time 15 day interval (Okra & Bitter Gourd)
Source of technology	Traditional knowledge in Agriculture, Booklets page no. 16	
Plot size	1 ha	
No. of farmers	10	
Total cost	Rs. 2700	
Critical input	Starch (three time used), Animal urin (three time used), Cowdung ash (three time used)	
Performance indicators:		
(i) Technical- yield (q/ ha)	Yield (q/ha)	
(ii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
Social – Employment generation	-	

Detailed Information about OFT (11): 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 ITK practice for the management of insect-pest by spraying of starch, animal urin and dusting of cowdung ash in vegetables (Okra & bitter gourd)
Year/Season:	2023 & Kharif
Farming situation:	<ul style="list-style-type: none"> • Shallow to medium black soil & plain field. • Irrigated • Okra-tomato-fenugreek/spinach cropping system. • Bitter gourd – Onion-fenugreek cropping system • Semi-medium to Small Farmers categories.
Problem diagnosis:	Low yield of vegetables due to infestation of insect-pest (Average yield losses up to 15-20%)
Thematic area:	IPM based on ITK
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of insecticide only.
T2 –Recommended Practice-	spraying of starch, animal urin and dusting of cowdung ash in vegetables three time 15 day interval (Okra & Bitter Gourd)
T3- Recommended Practice-	-

Date of sowing:	June, 2023
Date of harvesting:	Nov, 2023
Source of technology:	Traditional knowledge in Agriculture, Booklets page no. 16
Characteristics of technology:	
Name of Crop/Enterprises:	Okra & Bitter Gourd
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- **Plant Protection**

OFT-12

Crop / Enterprise	Soybean & Chickpea	
Title of on farm trial	Assessment of Neemastra, Brahmastra and Agni Astra on insect –pest of Soybean & Chickpea crop	
Problem diagnosed	High production cost of cultivation and toxicity of chemical pesticide in crop and soil	
Farmers' Practices	Application of insecticides (Imidacloprid 17.8%SL @ 225 ml/ha, Profenophos 40% +Cypermethrin 4% EC @ 1 Lit/ha, EmmamectineBanzoate 5% SG @ 220g/ha)	
Details of technologies selectedfor assessment	T ₁	Application of insecticides (Imidacloprid 17.8%SL @ 225 ml/ha, Profenophos 40% +Cypermethrin 4% EC @ 1 Lit/ha, EmmamectineBanzoate 5% SG @ 220g/ha)
	T ₂	Application of foliar spray of Neemastra @ 500 L/ha for control of sucking –insect, foliar spray of Brahmstra @ 15 L/ha & Agni Astra @ 15 L/ha for control of leaf defoliators in Soybean & Chickpea crop
Source of technology		
Plot size	1.5 ha	
No. of farmers	05	
Total cost	Rs. 4250	
Critical input	100 litre drum,	
Performance indicators:	Yield (q/ha)	
(iii) Technical- yield (q/ ha)		
(iv)Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
Social – Employment generation	-	

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 Neemastra, Brahmastra and Agni Astra on insect –pest of Soybean & Chickpea crop
Year/Season:	Kharif 2023 , Rabi 2023-24
Farming situation:	<ul style="list-style-type: none"> • Shallow to medium black soil & plain field. • Irrigated • Soybean- Wheat /Chickpea Cropping System • Marginal to semi medium Farmers Categories
Problem diagnosis:	High production cost of cultivation and toxicity of chemical pesticide in crop and soil
Thematic area:	Integrated Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of insecticides (Imidacloprid 17.8%SL @ 225 ml/ha, Profenophos 40% +Cypermethrin 4% EC @ 1 Lit/ha, EmmamectineBanzoate 5% SG @ 220g/ha)
T2 –Recommended Practice-	Application of foliar spray of Neemastra @ 500 L/ha for control of sucking –insect, foliar spray of Brahmstra @ 15 L/ha & Agni Astra @ 15 L/ha for control of leaf defoliators in Soybean & Chickpea crop
T3- Recommended Practice-	-
Date of sowing:	Kharif - June, 23 , Rabi- October, 23
Date of harvesting:	Kharif- Oct, 23, Rabi- March, 24
Source of technology:	-
-Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean & Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- Plant Protection**OFT-13**

Crop / Enterprise	Garlic
Title of on farm trial	Assessment of IDM module for the management of stemphylium blight and Purple Blotch in Garlic
Problem diagnosed	Low yield of garlic due to incidence of stemphylium blight and Purple Blotch (Average yield losses up to 15-20%)
Farmers' Practices	Application of Fungicides (Carbendazim 12%+Menchozeb 63% 1kg/ha)
Details of technologies selectedfor assessment	T ₁ Application of Fungicides (Carbendazim 12%+Menchozeb 63% 1kg/ha)
	T ₂ Foliar application Mancozeb @ 025 % at 30, 60 and 90 DAP
Source of technology	ICAR- IHR Bangalore (2017)
Plot size	1.5 ha
No. of farmers	05
Total cost	Rs. 7000
Critical input	Seed, Mancozeb three time spray, Ps. Fluoroscens, Cabriotop(pyraclostrobin 5%+55% metiram) three time spray
Performance indicators: (v) Technical- yield (q/ ha)	Yield (q/ha)
(vi) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio
Social – Employment generation	-

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 IDM module for the management of stemphylium blight and Purple Blotch in Garlic
Year/Season:	2023-24/ Rabi
Farming situation:	<ul style="list-style-type: none"> • Shallow to medium black soil & plain field. • Irrigated • Soybean- Garlic Cropping System • Marginal to semi medium Farmers Categories
Problem diagnosis:	Low yield of garlic due to incidence of stemphylium blight and Purple Blotch (Average yield losses up to 15-20%)
Thematic area:	PLP (Plant Protection)
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Fungicides (Carbendazim 12%+Menchozeb 63% 1kg/ha)
T2 –Recommended Practice-	Foliar application Mancozeb @ 025 % at 30, 60 and 90 DAP
T3- Recommended Practice-	Soil app. Of Pseudomonas fluorescens @ 5 kg/ha + foliar spray Cabriotop (metiram 55%+ pyraclostrobin 5% WDP) @ 0.25 % at 30,60 and 90 DAP
Date of sowing:	October, 2023
Date of harvesting:	March, 2024

Source of technology:	ICAR- IHR Bangalore (2017)
Characteristics of technology:	
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of On Farm Trial (OFT)- **Plant Protection**

OFT-14

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of ITK practice for the management of Fungal diseases by Seed treatment with Burn Engine Oil and application with irrigation in chickpea	
Problem diagnosed	Low yield of chickpea due to incidence of fungal diseases (Average yield losses up to 15-20%)	
Farmers' Practices	No seed treatment or improper seed treatment	
Details of technologies selected for assessment	T ₁	Seed treatment with carbendazim 25% + Mancozeb 50% @ 3g/kg Seed
	T ₂	Seed treatment with burn engine oil @ 10 ml/kg seed
Source of technology	Traditional knowledge of farmers village Gawakheda, block-Ashta, Distt.-Sehore	
Plot size	2 ha.	
No. of farmers	10	
Total cost	Rs. 1050	
Critical input	Burn engine oil 10ml/kg seed, carbendazim 25% + Mancozeb 50% @ 3g/kg Seed	
Performance indicators:		
(i) Technical- yield (q/ ha)	Yield (q/ha)	
(ii) Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
Social – Employment generation	-	

Detailed Information about OFT (14): **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 ITK practice for the management of Fungal diseases by Seed treatment with Burn Engine Oil and application with irrigation in chickpea
Year/Season:	2023-24/ Rabi
Farming situation:	<ul style="list-style-type: none"> • Shallow to medium black soil & plain field. • Semi Irrigated • Soybean- Chickpea Cropping System • Semi-medium to Small Farmers categories.
Problem diagnosis:	Low yield of chickpea due to incidence of fungal diseases (Average yield losses up to 15-20%)
Thematic area:	IDM based on ITK
No of trials:	10

No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Seed treatment with carbendazim 25% + Mancozeb 50% @ 3g/kg Seed
T2 –Recommended Practice-	Seed treatment with burn engine oil @ 10 ml/kg seed
T3- Recommended Practice-	Seed treatment with carbendazim 25% + Mancozeb 50% @ 3g/kg Seed + burn engine oil @ 10 ml/kg seed
Date of sowing:	October, 2023
Date of harvesting:	March, 2024
Source of technology:	Traditional knowledge of farmers village Gawakheda, block-Ashta, Distt.-Sehore
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

**Details of On Farm Trial (OFT)- Plant Protection
OFT-15**

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of newer molecule Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed for the management of Root Aphid in wheat crop	
Problem diagnosed	Low yield of wheat due to infestation of root aphid (Average yield losses up to 15-20%)	
Farmers' Practices	No seed treatment with Insecticide or improper seed treatment	
Details of technologies selectedfor assessment	T ₁	Seed treatment with carbendazim 25% + Mancozeb 50% @ 3g/kg Seed
	T ₂	Seed treatment with carbendazim 25% + Mancozeb 50% @ 3g/kg + thiomethoxam 30% FS 1.2ml/kg Seed
Source of technology	ICAR-NIPHM, Hedrabad.	
Plot size	3 ha	
No. of farmers	10	
Total cost	Rs. 2700	
Critical input	carbendazim 25% + Mancozeb 50% @ 3g/kg seed, thiomethoxam 30% FS 1.2ml/kg Seed, Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed	
Performance indicators:		
(iii) Technical- yield (q/ ha)	Yield (q/ha)	
(iv)Economic	Cost of cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) and B: C ratio	
Social – Employment generation	-	

Detailed Information about OFT (15) : 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 newer molecule Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed for the management of Root Aphid in wheat crop
Year/Season:	2023-24/ Rabi
Farming situation:	<ul style="list-style-type: none">• Shallow to medium black soil & plain field.• Semi Irrigated
Problem diagnosis:	Low yield of wheat due to infestation of root aphid (Average yield losses up to 15-20%)
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-	Seed treatment with carbendazim 25% + Mancozeb 50% @ 3g/kg Seed
T2 –Recommended Practice-	Seed treatment with carbendazim 25% + Mancozeb 50% @ 3g/kg + thiomethoxam 30% FS 1.2ml/kg Seed
T3- Recommended Practice-	Seed treatment with Azoxystrobin 2.5% + Thiophanate methyl 11.25% + Thiomethoxam 25% FS @ 2ml/kg seed
Date of sowing:	October, 2023
Date of harvesting:	March, 2024
Source of technology:	
Characteristics of technology:	-
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT: Extension**OFT- 16:-**

Title	Assessment of online training through Android Apps .
Season & Year	Summer, 2023
Problem identified	Technology transfer system is weak so that the farmer is not able to collect the desired information at the right time.
Thematic Area	Information and Communication Technology
Farming situation	Irrigated
Name of Technology Intervention under study	Use of online training app to get online training
Farmers Practice	Offline trainee through Resource Person
No. of replication (Farmers)	60

Results / findings

Performance indicators/ parameters	Unit/ details
Effectiveness	-
Utility	-
Time saving	-
Cost Saving	-
Knowledge level	-

OFT- 17:- Extension

Title	Assessment of effective use of different information sources for production technology of onion & Garlic
Season & Year	Rabi, 2023-2024
Problem identified	Low yield of Onion & Garlic due to poor information sources
Thematic Area	Information and Communication Technology
Farming situation	Irrigated
Name of Technology under study	Use of what's app for Onion & Garlic Production technology information
Farmers Practice	Use traditional information Sources
No. of replication (Farmers)	60

Results / findings

Performance indicators/ parameters	Unit/ details
Change in knowledge (%)	-
Change in adoption of disseminated technology (%)	-
Timeliness (%)	-
Production (per ha.)	-
Appropriateness	-

OFT- 18: - Extension

Title	Assessment of Knowledge and Adoption Behaviour of Natural Farming
Season & Year	Rabi, 2023-2024
Problem identified	Low Knowledge and Awareness about Natural Farming
Thematic Area	Soil Health Management
Farming situation	Irrigated
Name of Technology under study	Adoption of different practices of natural farming
Farmers Practice	Not adoption of natural farming practices
No. of replication (Farmers)	20

Results / findings

Performance indicators/ parameters	Unit/ details
Knowledge level	-
Adoption level	-
constraints	-

OFT- 19:- (Ongoing) Extension

Title	Assessment of effective use of different information sources for production technology of onion & Garlic
Season & Year	Rabi, 2022-2023
Problem identified	Low yield of Onion & Garlic due to poor information sources
Thematic Area	Information and Communication Technology
Farming situation	Irrigated
Name of Technology under study	Use of what's app for Onion & Garlic Production technology information
Farmers Practice	Use traditional information Sources
No. of replication (Farmers)	60

Results / findings

Performance indicators/ parameters	Unit/ details
Change in knowledge (%)	-
Change in adoption of disseminated technology (%)	-
Timeliness (%)	-
Production (per ha.)	-
Appropriateness	-

Information about Home Science OFT: 20 Homescience

Title of on-farm trial:	Assessment of Sorghum Millet Storage through Pro-Super Begg
Year/Season:	2023
Problem diagnosis:	Lack of awareness of storage techniques
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value Addition
No of trials:	05
No. of farmers/farm women involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Farmers uses neem leaves for grain storage.
T2 –Recommended Practice-	Use Pro-Super Begg for long time storage of grains
Source of technology:	IRRI 2011
Characteristics of technology:	Air Tight Storage of Grains through Pro-Super Begg
Name of Crop/Enterprises:	Sorghum
Farming situation:	Home Steed
Date of sowing:	Start: Nov. 2023
Date of harvesting:	End : June 2024
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 21 Homescience

Title of on-farm trial:	Assessment of Sorghum Khichidi for anaemic children
Year/Season:	2023
Problem diagnosis:	Anaemic children in Rural areas.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Intake low Protein, Vitamin and Mineral diet in first half day.
T2 –Recommended Practice-	Sorghum+Moong Dal = sorghum Khichidi
Source of technology:	IIMR, Hyderabad, 2021
Characteristics of technology:	It is rich sources of protein, vitamin and minerals and rich in potassium, phosphorus and calcium and sufficient amount of iron, zinc and sodium to reduce malnutrition

Name of Crop/Enterprises:	Sorghum
Farming situation:	Home Steed
Date of sowing:	Start: Nov. 2023
Date of harvesting:	End : Dec., 2023
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	Green Gram	CMP	Green gram variety IPM 205-7 (Virat	IPM 205-7 (Virat) Seed	Summer, 2023	4.0	10	No. of Pods, No. of Seeds, Test Wt., Yield (q/ha),
2	Hybrid Maize	Crop Diversification	Use of Hybrid seed + Optimum seed rate + Optimum plant spacing+ Nutrient management as per STV@150:60:40 N: P: K kg/ha + timely weed management and plant protection measures.	Hybrid seed	Kharif, 2023	2.0	05	No. of cobs/plant, No. of Seeds/cob, Yield (q/ha), % Income enhancement
3	Soybean	Crop Management Practices	Pre emergence herbicide Diclosulam 84 % WDG @ 26 g/ha	Diclosulam 84 % WDG	Kharif, 2023	2.0	05	Weed Density /m ² , No. of Pods/ plant, No. of Seeds/pod, Test Wt (g), Yield (q/ha)
4	Pigeon Pea	Crop Management Practices	Pigeon pea cultivation at bunds	Seed (TJT-501)	Kharif, 2023	0.5	25	Protein (g) Per Capita, Consumption/day Yield (q/ha)
5	Wheat	Crop Management Practices	Demonstration of Wheat variety HI-1634 (Pusa Ahilya)	Seed (HI- 1634)	Rabi 2023	2.0	05	No. of Tillers/plant No. of ears/plant No. of Seeds/ear Test Wt. (g) Yield (q/ha)

6	Chickpea	Crop Management Practices	Improved Variety RVG-204 +Recommended Seed rate & Plant Spacing + Timely Plant Protection Measures	Seed (RVG-204)	Rabi 2023	2.0	05	No. of Pods/plant No. of Seeds/pods Test Wt. (g) Yield (q/ha)
7	Green gram	PLP	Demonstration IDM module for the management of yellow mosaic in summer green gram	IPM-410-3	Summer 2023	1.0	05	No of infected Plant/m Yield (Qtl/ha) Cost of Cultivation (Rs./ha) Gross income (Rs./ha) Net income (Rs./ha) B:C ratio
8	Maize	PLP	Demonstration IPM module for the management of stem borer and Fall Army Warm in maize	Hybrid Maize	Kharif, 2023	2.0	10	No of infected Plant/m Yield (Qtl/ha) Cost of Cultivation (Rs./ha) Gross income (Rs./ha) Net income (Rs./ha) B:C ratio
9	Soybean	PLP	Demonstration IPM module for the management of Girdle Beetle and defoliator in Soybean crop	JS-9560	Kharif, 2023	2.0	10	Insect Infestation (%) Yield (Qtl/ha) Cost of Cultivation (Rs./ha) Gross income (Rs./ha) Net income (Rs./ha) B:C ratio
10	Chickpea	PLP	Demonstration IDM module for the management of Wilt, root rot & Collar rot disease in chickpea	JAKI-9218	Rabi, 2023-24	2.0	10	Disease Incidence (%) Yield (Qtl/ha) Cost of Cultivation (Rs./ha) Gross income (Rs./ha) Net income (Rs./ha) B:C ratio
11	Chickpea	PLP	Demonstration of IPM module for the management of gram pod borer in chickpea	RVG-202	Rabi, 2023-24	2.0	10	No of infected Plant/M ² Yield (Qtl/ha) Cost of Cultivation (Rs./ha) Gross income (Rs./ha) Net income (Rs./ha) B:C ratio
12	Chickpea	Soil Health Management	Demonstration of Soil Health Card Based use of Fertilizer Application in Soybean and chickpea Crops	RVG - 202	Round the Year	8.0	20	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) Benefit cost ratio (Gross return/gross cost)

13	Soybean & Chickpea (Ongoing)	Soil Health Management	Demonstration of Soil Health Card Based use of Fertilizer Application in Soybean and chickpea Crops	RVG-205	Round the Year	8.0	20	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) Benefit cost ratio (Gross return/gross cost)
14	Soybean & Chickpea	NRM	Demonstration of Jeevamrit and Ghan Jeevamrit on growth and yield of Soybean & Chickpea crop.	-	Kharif & Rabi 2023	4.0	05	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) BC ratio (Gross return/gross cost)
15	Soybean	Soil Fertility Management	Demonstration of Foliar Spray of Potassium Nutrient in Soybean crop	-	Kharif – 2023	8.0	10	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) BC ratio (Gross return/gross cost)
16	Other	NRM	Demonstration of Bio Waste-Decomposer for composting to enhance composting process	-	Kharif, 2023		20	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) BC ratio (Gross return/gross cost)
17	Garlic	Soil Fertility Management	Demonstration on foliar spray of Vegetable Micronutrient Mixture in Garlic crop	-	Rabi, 2023-24	2.0	10	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) BC ratio (Gross return/gross cost)
18	Onion	Soil Fertility Management	Demonstration of Nutrient Management in onion crop	-	Rabi 2022	2.0	05	Cost of cultivation (Rs./ha.) Gross return (Rs./ha.) Net income (Rs./ha.) BC ratio (Gross return/gross cost)
19	Other	HOV	Demonstration of ITK based Iron rich food supplements (Halwa) for anaemic children (1 year-5 years)	-	2023	-	24	Ingredients, Amount (g), Energy (Kcal), Protein (g), Iron (mg), Cost (Rs.)
20	Other	HOV	Demonstration of Milking Revolving Stool with Stand for Drudgery Reduction in Farm Women	-	2023	-	10	Output *, Est. Energy Expenditure kj/min, WHR beat/min, % reduction in drudgery, % increase in efficiency, Cardiac Cost of Work, % Saving of cardiac Cost
21	Other	HOV	Demonstration on Kitchen garden for nutritional security	-	2023-24	-	25	Name of Vegetable/Fruit/Product, Per Capita Consumption gm/day Energy (gm), Protein (gm), Iron (mg), Calcium (mg) ,Increase in Weight (kg) Increase in Height (cm), Increase in BMI (%)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	18	May, Sept. Dec, March	522
2	Farmers Training	14	January, June, September and October	310
3	Media coverage	25	May, Sept. Dec, March	Mass
4	Training for extension functionaries	02	May, Sept	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
Demonstration of ITK based Iron rich food supplements (Halwa) for anaemic children (1 year-5 years)	Others	24 (anaemic children)	-	Wheat Flour, Jaggery, Chickpea, Ground nut, Making, Charge	No./qty. Unit cost, Total Cost (Rs.)	-	-
Demonstration of Milking Revolving Stool with Stand for Drudgery Reduction in Farm Women	Others	10	-	Milking revolving Stool with Stand	Output *, Est. Energy Expenditure kj/min, WHR beat/min, % reduction in drudgery, % increase in efficiency, Cardiac Cost of Work, % Saving of cardiac Cost	-	-
Demonstration on Kitchen garden for nutritional security	Others	25	-	Plug Tray, Drumstick & Papaya Plants, Vegetable seeds	Per Kitchen garden, Required qty. (unit), Rate of input (Rs.), Total Cost (Rs.)	-	-

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

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Off-season vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
b) Fruits	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
f) Spices	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	02	01	20	-	20	05	-	05	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Group Dynamics									
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
Others	02	02	62	-	62	13	-	13	75
Total	02	02	62	-	62	13	-	13	75
XI Agro-forestry	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
Grand Total	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-
Insect Pest Management									
	04	04	80	-	80	20	-	20	100
Mushroom Production	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-
Seed production	01	01-02	15	02	17	06	02	08	25
Planting material production	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-
Organic Input and Soil & water testing	03	02	40	-	40	10	-	10	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
TOTAL	08	07	135	02	137	36	02	38	175
(C) Extension Personnel									
Productivity enhancement in field crops	02	01-02	50	10	60	15	5	20	80
Integrated Pest Management	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	01	01	20	05	25	-	-	-	25
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Any other (Entrepreneurial development)	-	-	-	-	-	-	-	-	-
TOTAL	03	02	70	15	85	15	05	20	105

empowerment of rural Women									
Location specific drudgery reduction technologies	01	01	0	0	0	0	25	25	25
Rural Crafts	-	-	-	-	-	-	-	-	-
Women and child care	01	01	0	16	16	0	09	09	25
Others (Processing and Cooking)	02	02	0	27	27	0	13	13	40
Total	08	06	-	109	109	-	81	81	190
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	02	2	15	17	31	10	8	18	35
Integrated Disease Management	03	3	50	0	50	35	0	35	85
Bio-control of pests and diseases	01	1	20	0	20	5	0	5	25
Production of bio control agents and bio pesticides	02	2	18	17	25	7	8	15	40
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	03	03	61	-	61	14	-	14	75
Formation and Management of SHGs	01	01	-	16	16	-	9	9	25
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues									
Others	02	02	20	16	36	05	09	14	50
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	06	06	81	32	113	19	18	37	150

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										
May	Farmers Training	Improved Agronomic Technologies of Soybean and maize	01	15	-	15	10	-	10	25
September	Farmers Training	Improved Agronomic Technologies of Wheat and chick pea	01	17	-	17	8	-	08	25
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
March, 2023	Farm Women Training	Balanced Diet of Pregnant Women	01	-	16	16	-	09	09	25
June, July, October, 2023	Farm Women Training	Nutritional Security by Kitchen Gardening	01	-	20	20	-	05	05	25
Plant Protection										
July, 2023	Farmers Training	Plant protection measures in kharif crops (Soybean, Maize, Pingeon pea)	01	20	-	20	05	-	05	25
July, 2023	Farmers Training	IPM in soybean crop for the management of girdle beetle and defoliators	01	15	-	15	10	-	10	25
November, 2023	Farmers Training	IDM in chickpea for the management of wilt, root rot and collar rot diseases	01	25	-	25	-	-	-	25
Agriculture Extension (Capacity Building and Group Dynamics)										
August & September, 2023	Farmers Training	Crop Insurance	01	40	-	40	10	-	10	50
Soil Science										
October, 23	Farm women Training	Nutrient Management in Onion and Garlic	01	22	-	22	03	-	03	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	Farm women	Women friendly weeding equipments and their operation	01	-	20	20	-	05	05	25
September	Farm women	Nutritional Security through Nutrient rich wheat	01	-	18	18	-	07	07	25
March	Farmers & Farm women	Improved agronomic techniques of summer green gram	01	15	2	17	05	3	08	25
May	Farmers & Farm women	Crop Diversification	01	16	-	16	09	-	09	25
May	Farmers & Farm women	Pigeon pea cultivation in waste land for nutritional security	01	10	05	15	06	04	10	25
June	Farmers	Weed management in soybean	01	17	-	17	08	-	08	25
October	Farmers	Weed management in wheat	01	18	-	18	07	-	07	25
April	Farmers	Improved Technology for reduce cost of cultivation	01	17	-	17	08	-	08	25
October	Farmers	Irrigation scheduling of Rabi crops	01	18	-	18	07	-	07	25
June	Rural Youth	Calculation of herbicide dose & its preparation	01	17	-	17	08	-	08	25
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
February, 2023	Farm Women Training	Health Care of Adolescent Girls and Children	01	-	21	21	-	04	04	25
June, 2023	Farm Women Training	Development of High Nutrient efficiency Diet	01	-	21	21	-	04	04	25
October, 2023	Farm Women Training	Preservation of Seasonal Fruits	01	-	17	17	-	08	08	25
September, 2023	Farm Women Training	Making iron rich food supplement for anaemic children	01	-	20	20	-	05	05	25
September, 2023	Farm Women Training	Technique to use Milking Revolving Stool with Stand	01	-	20	20	-	05	05	25
Plant Protection										

Month/ Tentative Date	Clientele	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, 2023	Farmers Training	management of yellow mosaic in green gram	01	10	-	10	15	-	15	25
June, 2023	Farm Women Training	Nursery Management in Vegetable crops	01	-	17	17	-	08	08	25
June, 2023	Farm Women Training	Management of store grain pests	01	-	17	17	-	08	08	25
July, 2023	Farmers Training	Management of Fall Army Warm in Maize crop	01	12	-	12	13	-	13	25
November, 2023	Farmers Training	Management of sucking pest in onion and garlic	01	20	-	20	05	-	05	25
July, 2024	Farmers Training	Integrated Pest Management in vegetable Crop (Tomato)	01	20	-	20	05	-	05	25
Agriculture Extension (Capacity Building and Group Dynamics)										
March, 2023	Farmers Training	Role of Group Approach in farming community	01	20	-	20	05	-	05	25
April, 2023	Farmers Training	Importance of Custom hiring centre	01	20	-	20	05	-	05	25
April, 2023	Farm Women Training	Role of SHG for income generation	01	-	16	16	-	09	09	25
May ,2023	Farmers Training	Role of Electronic Media in Agriculture	01	22	-	22	03	-	03	25
August, 2023	Farm Women Training	Awareness programme on health and sanitation	01	-	16	16	-	09	09	25
November, 2023	Farmers Training	Pradhan Mantri Krishi Sinchayee Yojana	01	20	-	20	05	-	05	25
December, 2023	Farmers Training	Cashless transaction	01	20	-	20	05	-	05	25
Soil Science										
May , 2023	Farmers & Farm women	Organic Farming	01	12	-	12	13	-	13	25
June, 2023	Farmers & Farm women	Integrated Nutrient Management in Kharif Crops	01	20	-	20	05	-	05	25
June, 2023	Farmers & Farm women	Importance & use of liquid Bio fertilizer in field crop	01	-	13	13	-	12	12	25
June, 2023	Farmers & Farm women	Nutrient Management in kharif crop	01	25	-	25	02	-	02	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
June, 2023	Farmers & Farm women	Natural Farming	01	05	-	05	20	-	20	25
July, 2023	Farmers & Farm women	Importance and use of water soluble fertilizer	01	33	-	33	02	-	02	35
October, 2023	Farmers & Farm women	Integrated Nutrient Management in Rabi Crop	01	20	-	20	05	-	05	25
October, 2023	Farmers & Farm women	Nutrient Management in Rabi Crop	01	20	-	20	05	-	05	25
October, 2023	Farmers & Farm women	Micro Nutrient Deficiency Symptom & Management.	01	16	-	16	04	-	04	20
October, 2023	Farmers & Farm women	Natural Farming	01	12	-	12	13	-	13	25
February , 2024	Farmers & Farm women	Soil Fertility Management through composting	01	-	22	22	-	03	03	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										
November ,23	Rural Youth	Seed production and marketing	05	10	02	12	3	-	3	15
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
March, 2023	Rural Youth	Dress Designing and Tailoring	05	0	13	13	0	02	02	15
December, 2023	Rural Youth	Value Addition of seasonal fruits	05	0	10	10	0	05	05	15

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
Aug, 2023	Extension Functionaries	Health Care of Children, Pregnant Women and Adolescent Girls	01-02	0	15	15	0	10	10	25
Nov, 2023	Extension Functionaries	Daily Diet Plan of Human Development stage and Role of Nutritional Garden	01-02	0	14	14	0	11	11	25
Plant Protection										
August, 2023	Extension Functionaries	IPM in Vegetable Crop (Tomato, Cucurbits)	01-02	15	05	20	06	04	10	30
June, 2023	Extension Functionaries	IPM in soybean, maize, pigeon pea	01-02	15	05	20	06	04	10	30
October, 2023	Extension Functionaries	IPM in chick Pea crop	01-02	15	05	20	06	04	10	30
October, 2023	Extension Functionaries	IPM in wheat, chickpea, lentil	01-02	15	05	20	06	04	10	30
Agriculture Extension (Capacity Building and Group Dynamics)										
September, 2023	Extension Functionaries	Information and Communication Technology in Agriculture	01-02	25	0	25	0	0	0	25
Soil Science										
May, 2023	Extension Functionaries	Nutrient Management in Soybean and Maize Crops	01	25	-	25	-	-	-	25
October, 2023	Extension Functionaries	Nutrient Management Chickpea and Wheat Crops	01	25	-	25	-	-	-	25

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants						Sponsor ing agency
						Male		Female		Total		
						Other	SC/ST	Other	SC/ST	Other	SC/ST		Total
1	-	-	-	-	-	-	-	-	-	-	-	-

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	469	25	494	15	02	17	484	27	511
Kisan Mela	01	820	120	940	50	10	60	870	130	1000
Kisan Ghosthi	05	222	68	290	10	05	15	232	73	305
Exhibition	10	1150	150	1300	60	10	70	1210	160	1370
Film Show	20	400	120	520	50	20	70	450	140	590
Method Demonstrations	12	145	65	210	05	02	07	150	70	220
Farmers Seminar	02	65	15	80	20	10	30	85	25	110
Workshop	02	70	25	95	04	-	04	74	25	99
Group meetings	15	155	55	210	-	-	-	155	55	210
Lectures delivered as resource persons	50	430	155	585	60	10	70	490	165	655
Interface	02	70	15	85	20	10	30	90	25	115
Newspaper coverage	100	Mass								
Radio talks	06	Mass								
TV talks	08	Mass								
Popular articles	07	--	--	--	--	--	--	--	-	--
Extension Literature	10	--	--	--	--	--	--	--	-	--
Advisory Services	23	--	--	--	--	--	--	--	-	--
Scientific visit to farmers field	140	415	115	530	55	20	75	510	135	645
Farmers visit to KVK	-	1890	650	2540	110	55	165	2000	760	2760
Diagnostic visits	20	150	20	170	20	05	25	170	25	195
Ex-trainees Sammelan	04	100	20	120	05	-	05	105	20	125
Soil health Camp	01	50	10	60	02	-	02	62	10	72
Animal Health Camp	01	60	-	60	05	-	05	65	-	65
Soil test campaigns	01	200	45	245	10	05	15	210	50	260
Celebration of important days (World Environment Day, World Food Day , World Soil Health Day, World Women Day, Kisan Diwas, World Water Day)	07	170	105	275	10	02	12	180	107	287

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
World Soil Health Day	01	50	-	50	05	-	05	55	-	55
Others (Celeberation of International Day)	02	45	155	200	05	20	25	50	175	225
Others (Parthenium Awareness Programme)	01	173	59	222	10	-	10	183	59	242
Others FPO Meeting	05	120	-	120	10	-	10	130	-	130
Success Story	10	08	02	10	-	-	-	08	02	10
Others- Awareness programme- Clean India Campaign, PMFBY and PMKSY	48	350	130	480	80	20	100	430	150	580
Technological Week	01	245	65	310	20	05	25	275	70	345
Extension Literature Literature (IPM in Soybean & IPM in chickpea)	02	-	-	-	-	-	-	-	-	-
Total	532	8022	2189	10201	641	211	852	8723	2458	11181

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HI-1634	90
		HI- 1636	90
		HI-8805	35
OILSEEDS	Soybean	RVSM-11-35	20
PULSES	Pigeon pea	TJT 501	8
	Chickpea	RVG 204	30
VEGETABLES	Garlic	G-384	25
	Corriander	G-2	01
	Fenugreek	RMT 305	02
	Pea	Kashi Nandini	02
	Ginger	Waynad	25
	Turmeric	Roma	25
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Drumstick	PMK-1	1500
	Papaya	Red Lady	1500
	Guava	L- 49	100
		Shweta	100
Lemon	Seedless	50	
SPICES	-	-	-
VEGETABLES	Chilli	Hybrid	10000
	Brinjal	Hybrid	10000
	Tomato	Hybrid	10000
	Onion	Bheema Supper	5000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (Flowers)	Marigold	Hybrid	5000
	Gladiolus	Hybrid	5000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	<i>Rhizobium</i>	-	-	-
3		-	-	-
BIOFERTILIZERS				
1	Vermicompost	-	-	50000
2	NADEP	-	-	16000
3	Decomposer compost	-	-	30000
	Vermi wash	-	-	200
BIO PESTICIDES				
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-
3		-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Gir	02	-
	Other (pl specify)	-	-	-
SHEEP AND GOAT	-	-	-	-
	-	-	-	-
POULTRY	Poultry	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01 st January – 31 th March	Drumstick a multi nutritional plant	1000
	Micro irrigation technologies for water saving	
	Water soluble fertilizer	
	Importance of mineral mixture in animal	
1 st April – 30 th June	Land leveling for better farming	1000
	Plug Tray Technology for Healthy Seedlings	
	Soil Health Management	
	Contagious disease in animals	
1 st July – 30 st September	Raised bed planting of Soybean Crop	1000
	Protected Cultivation for Vegetable Production	
	Nutrient management in Kharif Crop	
	Fisheries	
1 st October – 31 st December	Resource saving technologies	1000
	Use of Plastic in Horticulture	
	Nutrient management in rabi crops	
	Goatry	

Details of Electronic Media to be Produced

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

Success stories/Case studies identified for development as a case – 10

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, SAC meeting, Interface, line dept. and field Visit
2	Rural Youth	PRA, SAC meeting, Interface, line dept. and field Visit
3	In-service personnel	PRA, SAC meeting, Interface, line dept. and field Visit
4	methodology for identifying OFTs/FLDs	PRA, SAC meeting, Interface, line dept. and field Visit
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	Bijlon	Sehore	40
2	Narsinghkhedda	Icchawar	25
3	Gawakheda	Asta	35
4	Bawadiya chor	Icchawar	35
5	Kothra Pipalya	Nasrullaganj	65

1. No. of farm families selected per village : 65

2. No. of survey/PRA to be conducted: 05

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2012

List of equipments purchased:

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

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	250	50	-
Water Samples	-	-	-	-
Total	500	250	50	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
ICAR-ATARI, Zone-IX, Jabalpur	Collect technical guidance, Monitoring of KVK activities and financial supports
DES, RVSKVV, Gwalior	Collect technical guidance, Monitoring of KVK activities
Central Institute of Agricultural Engineering, Bhopal	Collect Technical Advice Regarding Agricultural Implements, Food Processing & Value Addition.
Indian Institute of Soil Science, Bhopal	Collect Technical Advices on Soil Related Problem.
Indian Institute of Pulses Research, Fanda	Collect Technical Advice for Pulses Crop
Doordarshan, Bhopal	Jointly extension of technology through television
Akashwani, Bhopal	Jointly extension of technology through Radio
RAK College of Agriculture, Sehore	Participation in KVK Programme, Collect Technical Advice for Conducting OFT & FLD.
Department of Agriculture, Sehore	Jointly Extension of Technologies Related to Field Crop and Sponsored programmes
Department of Horticulture, Sehore	Jointly Extension of Technologies Related to horticultural crops
Veterinary Department, Sehore	Jointly Extension of Technologies Related to Animal Sector
Department of NRLM, Sehore	Conduct training programme
A.T.M.A., Sehore	Support to Dissemination of Technologies.
Deptt. of Sericulture, Sehore	Jointly Extension of Technologies Related to Sericulture
Deptt. of Agriculture Engineering, Sehore	Jointly Extension of Technologies Related to engineering
Deptt. of Women & Child Dev., Sehore	Participation of Meeting Issue Related to nutrition
Lead Bank	Collect information about entrepreneurship development schemes
Nehru Yuva Kendra, Sehore	Organized Sponsored programme
NFL	Conduct demonstration programme
KRIBHCO	Conduct demonstration programme
HIL	Organized Sponsored programme
SIFA-SAMARTHAN (NGOs)	Conduct training programme with technical guidance of KVK
CEROWC, Bhopal (NGOs)	Conduct training programme with technical guidance of KVK
Reliance foundation	Conduct training programme and Messaging with technical guidance of KVK
Seed Societies	Technical Backup and purchase of seed for OFT & FLD programme

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district - No

Name of Programme	Nature of linkage
-	-

Give details of programmers implemented under National Horticultural Mission

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
Natural Farming	Farmers Training – 02	50/ Village- Bawadiya Chor
	Kisan Sangosthi	100/ KVK Farm Sewania

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	RVS- 1135, RVS-2001-11, RVS-18, RVS-2001-04, RVS-2024 PS-159, JS-9560, 9305, 2029, 2034, 2094, 2096, 2098, 2069, RKS-24, JS-2117, JS- 2172	All varieties grown based on Existing Farming Situation, those varieties suitable for District Farmers.	2000
Maize	Kharif	Hybrid	-	1000
Pigeon pea	Kharif	TJT-501, TT-401, UPAS-120, PUSA Arhar-16 Rajivlochan and Asha	-	250
Green gram	Kharif	Shikha, IPM-2-43, Virat and PDM-139	-	250
Black gram	Kharif	PU-1, Utra, MASH-479	-	250
Sesamum	Kharif	TKG-21, 22, 55, 306 & 308	-	250
Wheat	Rabi	HI-1612, 1620,1633, 1634, 1605,1544,1454, 8713, 8737, 8759, 8805, 8877,8805, 8802, 8823, 1636 GW-322, 366, 451,499 JW-3382, 3288 DBW-110, DDW-47, DDW-48, DBW-187 etc	-	2000
Chickpea	Rabi	RVKG-111 & 151, JKG-3, PKV-4, KAK-2	-	1500

		JAKI-9218, RVG-202, 203, 204, 205 JNG-1958 and JG-11, 16 and 36		
Lentil	Rabi	JL-3 & IPL-316, RVL 11-6	-	500
Mustard	Rabi	RVM-02 and Hybrid	-	
Linseed	Rabi	JLS-27 & 9, JLS- 67	-	

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy	-	-	Promote Indian Breed (Gir) at present time two breed available
Poultry	-	-	Proposed Plan
Goatry	-	-	Proposed Plan
NADEP	-	-	Composed Agri waste
Vermi Composting	-	-	Production of vermicompost through Portable vermibed, Pakka Pit and ground floor
Natural Farming	-	-	Prepare Jeewamrat, Ghanjeewamrat, Neemashtra, Brahmastra etc
Organic Farming	-	-	Production of NADEP compost, Vermi compost, vermiwash
Kithcen Garden	-	-	Produce round the year nutritional vegetables and fruit
Seed Production	-	-	Produce improved crop variety seeds
Crop Cafeteria	-	-	Demonstration of different types of technology
Soil & Water Conservation	-	-	Testing of soil sampling with 12 Parameter
Azolla Production	-	-	Production of protein rich animal feed (Azolla)
Round the year Green Fodder	-	-	Napier Grass, Gini Grass, CO-4 etc variety grown for round the year green fodder