ANNUAL ACTION PLAN 2025

KVK Mahasamund

January 2025 to December 2025

KVK Mahasamund

Year of sanction:2004.

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Satish Kumar Verma	KVK Mahasamund	9424214626	kvk.mahasamund@igkv.ac.in

1.2 Staff Position on (31th Dec.2024)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Satish Kumar Verma	Senior Scientist & Head	Horticulture	131400-217100, 161600	22.09.12	04.10.14	942421426	skvhort2014@gmail.com	
2	Subject Matter Specialist	Dr. Saket Dubey	SMS	Horticulture	.56100-177500, 73200	06.09.12	07.04.15	8817551202	saketdubey_horti@rediffmail.com	
3	Subject Matter Specialist	Shri Kunal Chandrakar	SMS	Soil Science	56100-177500, 65000	16.09.14	10.08.15	9754377591	kunal1586@gmail.com	
4	Subject Matter Specialist	Mrs. Rajni Dharmendra Agashe	SMS	Agricultural Extension	56100-177500, 65000	22.09.14	12.10.20	7389325085	rajniagashe@gmail.com	
5	Subject Matter Specialist	Er. Ravish Keshri	SMS	Soil & Water Engineering	56100-177500, 69000	20.10.14	20.10.14	9425373479	ravishkeshri@gmail.com	
6	Subject Matter Specialist	Vacant	SMS	-	-	-	-	-	-	
7	Subject Matter Specialist	Vacant	SMS	-	-	-	-	-	-	
8	Programme Assistant	Mr. S. M. Ali Humayun	PA (Ento)	Entomology	35400-112400, 44900	27.10.14	27.10.14	9827909069	humayun27@ymail.com	
9	Computer Programmer/ Programme Assistant	Dr. Punitha Kartikeyan	PA (Comp)	Computer Science	35400-112400, 47600	26.09.12	29.07.13	9424231673	punitakartikeyan@gmail.com	
10	Farm Manager	Mr. Kamal Kant Lodhi	FM	Agronomy	35400-112400, 35400	31.10.19	31.10.19	7000084941	kamallodhi1610@gmail.com	
11	Assistant	Shri Amar Chand Sahu	AG-1		28700-91300, 31200		09.01.23	9669048985	kvkmahasamund@gmail.com	
12	Jr. Stenographer / Comp. Operator	Shri DevLal Sahu	AG-2 (Contractual)	-	23350	18.06.2024		8889383249	devlalsahu8@gmail.com	
13	Driver	Mr.Rajesh Markandey	Driver	-	25400	02.04.13	02.04.13	7566000700	kvkmahasamund@gmail.com	
14	Driver	Mr. Rohit Kumar Bandhe	Driver (contractual)		18000	15.03.24	15.03.24	9981310100	rohitbandhe64@gmail.com	
15	Supporting staff	Shri Khayal Das Vaishnav	Messenger	-	26600	04.02.06	04.02.06	9516348175	kvkmahasamund@gmail.com	
16	Supporting staff	Shri Omkar Sahu	Watchman (contractual)	-	14400	08.07.2024	-	8966852407	kvkmahasamund@gmail.com	

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

S. No.	Item	Area (ha)
1	Under Buildings	1 ha
2	Under Demonstration Units	2 ha
3	Under Crops	8 ha
4	Orchard/Agro-forestry	7 ha
5	Others (specify)	2 ha
Total		**20 ha**

1.4 Infrastructural Development:

A) Buildings

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

A) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Marshal	2005	382607	69195 (09.07.15)	Write off on 09.7.15
Motor Cycle	2005	41998.81	51203	working
Bolero	2018	774890		working
Tractor	2005	Write off		Write off

B) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2021	52816	Working
Xerox Machine	-		
Generator	-		
Video Camera	-		
Computer, Laser Printer	2021	16000	Working
UPS 600 VA	-		
Stabilizer 2 KVA	-		
Stabilizer	2021	3700	Working
Inverter 600 VA (2)	-		
Inverter Battery (2)	-		

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

Sl. No.	Tentative Date
1	April - May 2024

2. DETAILS OF DISTRICT

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

S. No.	Farming system/enterprise	Description
1	AES – 1 (Mahasamund & Bagbahra block)	Rainfall, mm - 1434 Soil type - Loamy Topography -Gentle slope Farming system - Agriculture + horticulture, Agriculture + fishery, agriculture + forestry
2	AES – 2 (Pithora, Basna & Saraipali block)	Rainfall, mm - 900 - 1100 Soil type - Clay loam Topography- Moderate slope Farming system - Agriculture + horticulture, Agriculture + dairy, Agriculture + fishery, agriculture + forestry

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1(Mahasamund & Bagbahra block)	Rainfall, mm - 1434 Soil type - Loamy Topography -Gentle slope Farming system - Agriculture + horticulture, Agriculture + fishery, agriculture + forestry
2	AES – 2 ((Pithora, Basna & Saraipali block)	Rainfall, mm - 900 - 1100 Soil type - Clay loam Topography- Moderate slope Farming system - Agriculture + horticulture, Agriculture + dairy, Agriculture + fishery, agriculture + forestry

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

Strength	Weakness	Opportunities	Threats
Availability of raw material like paddy, wheat, kodan, tur, kulthi etc. Due to this, there is good scope for agro based industries.	• Agriculture and Horticulture have not been effectively exploited. • Inadequate infrastructure base industrial estate, transport etc mark the industrial growth.	Development of agriculture sector establishment of agro-based industries well in tern provide opportunities for development of agricultural products such as fruits and vegetables	Ecological Imbalance: There is possibility of creating an ecological imbalance because of felling of trees, changing topography of land, utilization of large quantities of ground water etc.

AES-2 (name)

Strength	Weakness	Opportunities	Threats
• Density of population is lower than state average. Hence large area of free land is available for industrialization.	• District is lacking on medical facilities, education, initiations, entrepreneurial talent and Industrial culture. • Agriculture is main activity of district. Farmers are not interested in industrial activity.	• Raipur and Durg districts are well developed cities and known as the industrial cities in CG state is near to Mahasamund district	• If proper investment climate is not provided, capital might get diverted and get sunk in un-productive assets. This will cause capital squeeze for new projects.

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	413462.9
Forest	41453.75
Waste Land	7005.11
Other than cultivated area	34124.76
Cultivable waste and alkaline land	12380.98
Pastures	16152.17
Bushes	
Current Fallow	3197.63
Other Fallow	3807.48
Agricultural Land	303731.1
Area Sown	256524
Kharif	256524
Rabi	42258
Zaid	-
Cropping Intensity	119

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5596
2	Well	795
3	Tube well	63287
4	Ponds	5596
5	Others	7170

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Inceptisols (Matasi): Sandy loam	Sandy Loam, medium shallow deep,yellow colour, PH- 5.4-6.2	107547
2	Alfisols (Dorsa): Clay loam	Clay loam, medium to moderate deep, red and brownish grey colour, PH- 5.8-6.5	59667
3	Entisoils (Bhata): lateritic	Gravelly course loamy to Sandy , very shallow, reddish to dark reddish colour, PH- 5.0-5.4	58438
4	Vertisols (Kanhar): Clayey	Clayey heaver deep, dark gray brown to black colour, PH- 5.8- 6.9	53250

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	Fruits	12450	184772	14.84
2	Vegetables	19159	323274	16.87
3	Spices	3048	33083	10.85
4	Flowers	12069	24912	2.06

Source: Department of Horticulture and Farm Forestry, Nava Raipur, C.G,2022-23

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

Month /Year	Rainfall (mm)	Temperature (^{0}C)	
		Maximum	Minimum
Jan. 2024	8.6	27.9	14.3
Feb. 2024	5.8	31.4	17.5
Mar. 2024	28.9	35.8	20.6
Apr. 2024	62.2	37.9	23.1
May. 2024	13.2	41.0	26.5
Jun. 2024	131.0	39.0	27.7
July. 2024	342.5	31.2	25.8
Aug. 2024	356.8	30.5	25.4
Sept. 2024	248.4	31.9	25.4
Oct. 2024	12.1	33.0	24.5
Nov. 2024	0.0	30.3	16.0
Dec. 2024			

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	3.05 Lakh	71.98 MT.	…kg
Buffalo	21813	14.9 MT.	…kg
Sheep			
Crossbred/ Indigenous	15970	0.167 MT wool	…kg
Goats	1.23 L	2.91 MT	…kg
Pigs *Crossbred/ Indigenous*	1884	--	---
Rabbits	--	--	--
Poultry			
Hens	10.9 L	7.2 Lakh eggs	…eggs/ bird/yr
Turkey and others	--	---	--
Category	**Area**	**Production**	**Productivity**
Fish	--(ha)	…Q/ month	Q/ ha.

Details of Operational area / Villages (2025)

SN	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Mahasamund	Mahasamund	Paraswani,	Rice-wheat-Groundnut-chickpea-vegetable	Low yield, rice fallow	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
2	Mahasamund	Mahasamund	Saradih,	Rice, wheat	Low yield,Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
3	Mahasamund	Mahasamund	Barbaspur,	Rice, wheat	Low yield, Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
4	Mahasamund	Mahasamund	Birkoni,	Rice, Wheat	Low yield, Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
5	Mahasamund	Mahasamund	Achhola	Rice, Wheat	Low yield, Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements

Priority / Thrust areas

S. No.	Particulars
1.	Diversification of existing production systems for better profitability.
2.	Farm mechanization through improved agricultural implements
3.	Introduction of community based quality seed and planting material.
4.	Income augmentation of resource poor farm women through small scale backyard enterprise
5.	Reduction of cost of cultivation of existing major crop enterprises through better management practice
6.	To enhance crop productivity and cropping intensity under rainfed and irrigated conditions.
7.	Improve riverbed cultivation through community based.
8.	Entrepreneurship development of rural youths and woman SHG members
9.	Water management using micro irrigation
10.	Soil Test Based Crop Production System
11.	Integrated Nutrient Management
12.	Mal nutrition among preschool children and adolescent girl
13.	Poor income of farm family
14.	Wastage of vegetable in surplus condition

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
14	110	9	73

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
48	1200	102	Mass

Seed Production (Qtl.)	Planting material (Nos.)
71 Qt.	2,73,400

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1									
2									
3									
4									

Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Total
Variety assessment	4	-			2	1				**2**
TOTAL										

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Total
TOTAL								

Details of On Farm Trial (OFT)

OFT -1 (Soil Science)

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Natural farming Based Nutrient Management in Scented Rice (Var. – CG Devbhog)	
Problem diagnosed	Low yield potential due to degrading and poor soil fertility status	
Farmers' Practices	Use of FYM @ 1 ton / ha, no use of Beejamrit + Ghanjeevamri + Jeevamrit	
Details of technologies selected for assessment	T_1	Use of FYM @ 1 ton / ha, no use of Beejamrit + Ghanjeevamri + Jeevamrit
	T_2	Seed treatment with Beejamrit + application of Ghanjeevamrit@ 250 kg/ha. + FYM@ 250 kg/ha + foliar spray of Jeevamrit@ 500 ml/ha in 15 days interval after sowing + use of Biopesticides
	T_3	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha.	
No. of farmers	5	
Total cost	11000/-	
Critical input	Seed, raw materials for preparation of Jivaamarit, Beejamrit, Ghanjivamarit, Biopesticides	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- **yield (q/ ha)** (iii) Economic (iv) Social – **Employment generation**	No. of tillers/plant Yield (q/h) B:C ratio	

OFT -2 (Soil Science)

=	Wheat	
Title of on farm trial	Assessment of revisiting RDF for wheat in Mahasamund District	
Problem diagnosed	Low crop response by current RDF for yield maximization, P buildup in soil	
Farmers' Practices	Irrigated	
Details of technologies selected for assessment	T_1	Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha
	T_2	RDF (100:60:40)
	T_3	125% RDF of N, 75% RDF of P, 100% RDF of K (125:45:40)
Source of technology	IGKV, Raipur	
Plot size	0.2 ha.	
No. of farmers	5	
Total cost	10000/-	
Critical input	Seed , Soil Testing	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- **yield (q/ ha)** (vii) Economic (viii) Social – **Employment generation**	No. of panicle/sq. m Yield (q/h) B:C ratio	

OFT – 3 (Soil Science)

Crop / Enterprise	Groundnut	
Title of on farm trial	Assessment of Integrated nutrient management in Ground nut	
Problem diagnosed	Low yield and poor quality production of ground nut	
Farmers' Practices	Imbalance use of fertilizer and no use of sulphur in oilseed	
Details of technologies selected for assessment	T_1	Imbalance use of fertilizer, Dose (11:28:00) NPK kg/ha
	T_2	Seed treatment with *Trichoderma viride* @ 4 g/kg seed and Soil treatment with Rhizobium + PSB@ 2kg/ha with 25 kg of FYM and 25 kg of soil before sowing. Apply zinc sulphate@ 25 kg/ha as basal. Apply NPK @ 38:45:25 kg/ha
	T_3	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha.	
No. of farmers	5	
Total cost	8000/-	
Critical input	Zinc sulphate, & Bio-fertilizers	
Performance indicators: (ix) Growth and Yield attributes (X) Technical- **yield (q/ ha)** (xi) Economic (xii) Social – **Employment generation**	Number of pod/plant Yield (q/h) B:C ratio	

OFT - 4 (Soil Science)

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of sulphur application in mustard	
Problem diagnosed	Low productivity and less oil content due to imbalance use of fertilizers	
Farmers' Practices	Use of Imbalance nutrient -(NPK 50:57:00 kg/ha) Source - N through Urea and DAP & P through DAP	
Details of technologies selected for assessment	T_1	Imbalance use of fertilizer, Use of Imbalance nutrient -(NPK 50:57:00 kg/ha) Source - N through Urea and DAP & P through DAP
	T_2	Use of (NPK 120:60:40 kg/ha) , use of Bentonite Sulphur (90%) as basal dose@ 25 kg/ha, seed treatment with PSB and Azospirillum @ 10 ml / kg of Seed .
	T_3	-
Source of technology	IGKV, Raipur 2016	
Plot size	0.2 ha.	
No. of farmers	5	
Total cost	7500/-	
Critical input	Bentonite sulphur & bio-fertilizers.	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- **yield (q/ ha)** (xv) Economic (xvi) Social – **Employment generation**	No. of Siliqua/plant & Oil % Yield (q/h) B:C ratio	

OFT -5 (Agri Engg.)

Crop/Enterprise	Paddy
Title of on-farm trial	Assessment of drone spray technology for cultivation of paddy
Problem diagnosed	Labour, time consuming, health hazard
Farming situation	Rainfed/irrigated
Production system and thematic area	Farm mechanization
Farmers' practices	Insecticide spray by knapsack sprayer
Details of technologies selected for assessment/refinement Treatments	T1: Insecticide spray by knapsack sprayer (Control) T2: Insecticide spray by Agri drone
Source of technology	CIAE, Bhopal
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	NA
Critical input	Agri drone service
Performance indicators Observation to be recorded	Field Capacity (ha/hr), yield (Q./ha), B:C ratio
Cost of input	3500
Total cost	10000

OFT -6 (Agri Engg.)

Crop/Enterprise	Groundnut
Title of on-farm trial	Assessment of deep ploughing by MB plough in groundnut
Problem diagnosed	Restricted drainage cause water logging
Farming situation	Rainfed
Production system and thematic area	Farm mechanization
Farmers' practices	No deep tillage
Details of technologies selected for assessment/refinement Treatments	T1: no deep tillage T2: deep ploughing by MB plough
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	NA
Critical input	MB Plough with hired tractor
Performance indicators Observation to be recorded	Field Capacity (ha/hr), yield (Q./ha), B:C ratio
Cost of input	5500
Total cost	10000

OFT - 7 (Agri Engg.)

Crop/Enterprise	Maize
Title of on-farm trial	Assessment of drone spray technology for cultivation of Maize
Problem diagnosed	Labour, time consuming, health hazard
Farming situation	Rainfed/irrigated
Production system and thematic area	Farm mechanization
Farmers' practices	Insecticide spray by knapsack sprayer
Details of technologies selected for assessment/refinement Treatments	T1: Insecticide spray by knapsack sprayer (Control) T2: Insecticide spray by Agri drone
Source of technology	CIAE, Bhopal
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	NA
Critical input	Agri drone service
Performance indicators Observation to be recorded	Field Capacity (ha/hr), yield (Q./ha), B:C ratio
Cost of input	3500
Total cost	10000

OFT -8 (Agri Engg.)

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of the Rotavator for field preparation in wheat
Problem diagnosed	Poor field preparation after two to three field operations
Farming situation	irrigated
Production system and thematic area	Farm mechanization
Farmers' practices	No use of rotavator
Details of technologies selected for assessment/refinement Treatments	T1: No use of rotavator T2: field preparation by rotavator
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.4 ha
No of trial	5
No. of animals (if animals are part of OFT)	NA
Critical input	rotavator with hired tractor
Performance indicators Observation to be recorded	Field Capacity (ha/hr), yield (Q./ha), B:C ratio
Cost of input	5500
Total cost	10000

OFT-9 (Horticulture)

Crop / Enterprise	Colocassia	
Title of on farm trial	Assessment of Colocassia Variety Indira Arbi-2	
Problem diagnosed	Use of Unidentified Variety	
Farmers' Practices	Use of Unidentified Variety	
Details of technologies selected for assessment	T_1	Improved Colocassia Variety Indira Arbi-2
	T_2	
	T_3	Rows can be added if necessary
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	16000	
Critical input	Seed	
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- yield (q/ ha) (xix) Economic (xx) Social – Employment generation	Number of Leaves, Weight of Corm yield (q/ ha) B:C ratio	

OFT -10 (Horticulture)

Crop / Enterprise	Onion
Title of on-farm trial	Assessment of Chemical Weed Management in Onion
Problem diagnosed	Higher weed infestation
Farming situation	Irrigated
Production system and thematic area	Weed Management
Farmers' practices	Hand Weeding
Details of technologies selected for assessment/refinement Treatments	T1Pendamethalin @ 2 lt. per ha after 0-3 days after transplanting T2 Oxyflourfen @ 250 ml. /ha after 20 days after transplanting
Source of technology	IGKV, Raipur
No. of farmers	05
Critical input	Seed and weedicide
Cost of input	3200
Total cost	16000
Performance indicators Observation to be recorded	yield (q/ ha) B:C ratio

OFT -11 (Horticulture)

Crop / Enterprise	Papaya
Title of on-farm trial	Assessment of Improved variety of papaya
Problem diagnosed	Ring Spot Virus and Non availability of genuine seeds
Farming situation	Irrigated
Production system and thematic area	Crop Production
Farmers' practices	Red Lady and Local Variety
Details of technologies selected for assessment/refinement Treatments	Improved variety of papaya "15 No."
Source of technology	IGKV,Raipur
No. of farmers	05
Critical input	papaya
Cost of input	3500
Total cost	5000
Performance indicators Observation to be recorded	yield (q/ ha) B:C ratio

OFT - 12 (Horticulture)

Crop / Enterprise	Watermelon
Title of on-farm trial	Assessment of River Bed Cultivation of Water Melon
Problem diagnosed	Fruit rotting in plain bed cultivation
Farming situation	Irrigated
Production system and thematic area	Precision Agriculture
Farmers' practices	Plain bed cultivation of Water Melon
Details of technologies selected for assessment/refinement Treatments	T1 Plain bed cultivation of Water Melon T2 River Bed Cultivation of Water Melon
Source of technology	IGKV, Raipur
No. of farmers	05
Area of each trial	800 sq.mt
No. of Trials	05
Critical Input	Seed
Performance indicators Observation to be recorded	Yield
Cost of input	2000
Total cost	4000

Detailed Information about OFT:

Soil Science (OFT-1):-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Soil Science**
Title of on-farm trial:	Assessment of Natural farming Based Nutrient Management in Scented Rice (Var. – CG Devbhog)
Year/Season:	2025- Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield potential due to degrading and poor soil fertility status
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Use of FYM @ 1 ton / ha, no use of Beejamrit + Ghanjeevamri + Jeevamrit
T2 –Recommended Practice-	T2- Seed treatment with Beejamrit + application of Ghanjeevamrit@ 250 kg/ha. + FYM@ 250 kg/ha + foliar spray of Jeevamrit@ 500 ml/ha in 15 days interval after sowing + use of Biopesticides
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Soil Science (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 revisiting RDF for wheat in Mahasamund District
Year/Season:	2025-26, Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer
Thematic area:	Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha
T2 –Recommended Practice-	RDF (100:60:40)

T3- Recommended Practice-	125% RDF of N, 75% RDF of P, 100% RDF of K (125:45:40)
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	

Soil Science (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 Integrated nutrient management in Ground nut
Year/Season:	Kharif 2025
Farming situation:	Irrigated
Problem diagnosis:	Imbalance use of fertilizer and no use of sulphur in oilseed
Thematic area:	Integrated Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Imbalance use of fertilizer, Dose (11:28:00) NPK kg/ha
T2 –Recommended Practice-	T2- Seed treatment with *Trichoderma viride* @ 4 g/kg seed and Soil treatment with Rhizobium + PSB@ 2kg/ha with 25 kg of FYM and 25 kg of soil before sowing. Apply zinc sulphate@ 25 kg/ha as basal. Apply NPK @ 38:45:25 kg/ha
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	

Soil Science (OFT-4):-

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 application in mustard
Year/Season:	Rabi 2025-26
Farming situation:	Irrigated
Problem diagnosis:	Low productivity and less oil content due to imbalance use of fertilizers
Thematic area:	Nutrient Management
No of trials:	05
No. of farmers involved	05

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Imbalance use of fertilizer, Use of Imbalance nutrient -(NPK 50:57:00 kg/ha) Source - N through Urea and DAP & P through DAP
T2 –Recommended Practice-	T2- Use of (NPK 120:60:40 kg/ha) , use of Bentonite Sulphur (90%) as basal dose@ 25 kg/ha, seed treatment with PSB and Azospirillum @ 10 ml / kg of Seed
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	

OFT -5 (Agri Engg.)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Agri Engineering (OFT-1)**
Title of on-farm trial:	Assessment of drone spray technology for cultivation of paddy
Year/Season:	Kharif 2025
Farming situation:	Rainfed/irrigated
Problem diagnosis:	Labour, time consuming, health hazard
Thematic area:	Farm mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Insecticide spray by knapsack sprayer
T2 –Recommended Practice-	T2: Insecticide spray by agri drone
T3- Recommended Practice-	-
Date of sowing:	June 2025
Date of harvesting:	November 2025
Source of technology:	CIAE, Bhopal
Characteristics of technology:	Time effective, precision spray, safe for applicator health
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT - 6 (Agri Engg.)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Agri Engineering (OFT-2)**
Title of on-farm trial:	Assessment of deep ploughing by MB plough in groundnut
Year/Season:	Summer/kharif 2025
Farming situation:	Rainfed
Problem diagnosis:	Restricted drainage cause water logging
Thematic area:	Farm mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- no deep tillage
T2 –Recommended Practice-	T2: deep ploughing by MB plough
T3- Recommended Practice-	-
Date of sowing:	July 2025
Date of harvesting:	October 2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	Improves drainage
Name of Crop/Enterprises:	groundnut
Recommendations for Farmers	-

OFT - 7 (Agri Engg)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Agri Engineering (OFT-3)**
Title of on-farm trial:	Assessment of drone spray technology for cultivation of maize
Year/Season:	Rabi 2025
Farming situation:	Rainfed/irrigated
Problem diagnosis:	Labour, time consuming, health hazard
Thematic area:	Farm mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Insecticide spray by knapsack sprayer
T2 –Recommended Practice-	T2: Insecticide spray by agri drone
T3- Recommended Practice-	-
Date of sowing:	June 2025
Date of harvesting:	November 2025
Source of technology:	CIAE, Bhopal
Characteristics of technology:	Time effective, precision spray, safe for applicator health
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-

OFT - 8 (Agri Engg.)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Agri Engineering (OFT-4)**
Title of on-farm trial:	Assessment of the Rotavator for field preparation in wheat
Year/Season:	Rabi 2025
Farming situation:	irrigated
Problem diagnosis:	Poor field preparation after two to three field operations
Thematic area:	Farm mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- No use of rotavator
T2 –Recommended Practice-	T2: field preparation by rotavator
T3- Recommended Practice-	-
Date of sowing:	November 2025
Date of harvesting:	March 2026
Source of technology:	CIAE, Bhopal
Characteristics of technology:	Field with no clods
Name of Crop/Enterprises:	wheat
Recommendations for Farmers	-

OFT - 9 (Horticulture) –

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Colocassia Variety Indira Arbi-2
Year/Season:	Kharif 2025
Farming situation:	Rainfed
Problem diagnosis:	Use of Unidentified Variety
Thematic area:	Crop Production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment)	Assessment of Colocassia Variety Indira Arbi-2
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Unidentified Variety
T2 –Recommended Practice-	Improved Colocassia Variety Indira Arbi-2
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV,Raipur
Characteristics of technology:	Improved Variety
Name of Crop/Enterprises:	Colocassia
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	

OFT - 10 (Horticulture) -

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Chemical Weed Management in Onion
Year/Season:	Rabi 2025
Farming situation:	Irrigated
Problem diagnosis:	Higher weed infestation
Thematic area:	Weed Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment)	Assessment of Chemical Weed Management in Onion
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hand Weeding
T2 –Recommended Practice-	T1Pendamethalin @ 2 lt. per ha after 0-3 days after transplanting T2 Oxyflourfen @ 250 ml. /ha after 20 days after transplanting
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV,Raipur
Characteristics of technology:	Weedicide Application for Management of Weeds
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT - 11(Horticulture) –

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Improved variety of papaya
Year/Season:	Kharif 2025
Farming situation:	Irrigated
Problem diagnosis:	Ring Spot Virus and Non availability of genuine seeds
Thematic area:	Crop Production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment)	Assessment of Improved variety of papaya
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hand Weeding
T2 –Recommended Practice-	T1 --- “15 No” variety of papaya
Date of sowing:	
Date of harvesting:	

Source of technology:	IGKV,Raipur
Characteristics of technology:	Improved variety of papaya "15 No."
Name of Crop/Enterprises:	papaya
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT - 12(Horticulture) -

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of River Bed Cultivation of Water Melon
Year/Season:	Rabi 2025
Farming situation:	Irrigated
Problem diagnosis:	Fruit rotting in plain bed cultivation
Thematic area:	Precision Agriculture
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment)	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Plain bed cultivation of Water Melon
T2 –Recommended Practice-	River Bed Cultivation of Water Melon
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	River Bed Cultivation of Water Melon
Name of Crop/Enterprises:	Water Melon
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension

OFT: 13

Title	Assessment of utilization of ICT based app (Crop doctor) in Plant protection of Vegetable (Tomato) crop by the farmers of Mahasamund district.
Season & Year	2024-25, Kharif
Problem identified	Less use of ICT based tools in agriculture by farmers
Thematic Area	ICT
Farming situation	All type
Name of Technology Intervention under study	Crop Doctor App.
Farmers Practice	Less use of ICT tools in agriculture by the farmers
No. of replication (Farmers)	25

Results / findings

Performance indicators/ parameters	Unit/ details
1.Utilization pattern of Crop doctor app 2.Purpose of utilization 3. Accurate 4.Timeliness 5.Relevance 6.Problem faced in use of crop doctor app.	

Information about Extension OFT: 14

Title	Assessment of performance of Self Help Groups on Socio - Economic, Knowledge and Technology level on members of SHGs in Mahasamund District of Chhattisgarh.
Season & Year	2024-25, Rabi
Problem identified	Farmers are not jointly organized with SHGs for production ,processing ,value addition and marketing of agricultural produce or for other allied activities.
Thematic Area	Impact assessment
Farming situation	-----
Name of Technology Intervention under study	Self Help Groups
Farmers Practice	No membership of farmers in SHGs for production, processing, value addition and marketing of agricultural produce or other allied activities
No. of replication (Farmers)	25

Results / findings

Performance indicators/ parameters	Unit/ details
Sudy of Socio-economic Profile , level of knoweldge, technology level and problem faced	

Frontline Demonstrations

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Black Gram	Integrated Nutrient Management	Demonstration of INM in Black gram	Seed, Biofertilizer	Kharif 2025	4.8	12	Number of pod/plant, yield (q/h) & B:C ratio
2	Lathyrus	Nutrient Management	Demonstration on improved Utera technique in Lathyrus	Seed, Biofertilizer, Trichoderma, Liquid Fertilizer	Rabi 2025-26	4.8	12	1. Plant height 2. Plant root growth observation 3. Root nodule /plant 4. yield q./ha 5. B:C Ratio

3	Cowpea	Crop Production	Improved Variety "Kashi Kanchan"	Seed	Kharif 2025	0.4	05	Yield, B:C ratio
4	Banana	Crop Production	Improved Variety "G-9"	Planting Material	Kharif 2025	0.4	05	Yield, B:C ratio
5	Cauliflower	Crop Production	Molybdenum Application	Planting Material and Micronutrient	Rabi 2025	0.4	05	Yield, B:C ratio
6	Paddy Straw Mushroom	Integrated Farming System (IFS)	Paddy Straw Mushroom production	Spawn, Polythene Bags and other Essential Inputs	Kharif & Summer 2025	15	05	Local Check/ Farmer Practice: Yield and B : C ratio
7	Vegetables and Fruits	Nutritional security, Nutrition Sensitive Agriculture	Nutritional garden	Seeds and Saplings of Vegetables and Fruit Plants	Rabi 2025	.15	05	Local Check/ Farmer Practice: Yield and B : C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Kharif & Rabi	200
2	Farmers Training	48	Kharif & Rabi	1200
3	Media coverage	24	Kharif & Rabi	Mass
4	Training for extension functionaries	4	Kharif & Rabi	100

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
FLD - 8 : Farm Mechanization - Paddy Crop Residue Management by Tractor Operated	Paddy	Kharif/Rabi	12	5	NA	Field capacity (Ha/hr), cost of operation (Rs./ha)		
FLD – 9: Farm Mechanization - Demonstration of seed cum fertilizer drill for sowing of wheat	Wheat	Rabi	12	5	Seed	Field capacity (Ha/hr), yield, Q/ha, BC Ratio		

**Field efficiency, labour saving etc.*

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

S n	Crop	Thematic area	Technology for demonstration	Critical inputs	*Season and year*	Area (ha)	No. of farmers/ demonstration	Parameters identified
1.								
2.								
3.								
4.								
5.								
6.								

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2		100
2	Farmers Training	6		150
3	Media coverage	6		Mass
4	Training for extension functionaries	2		50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

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

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total									
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology									
Total									
g) Medicinal and Aromatic Plants									
Production and management technology									
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	1	1						25	
Soil and Water Conservation	1	1						25	
Integrated Nutrient Management	1	1						25	
Production and use of organic inputs	1	1						25	
Management of Problematic soils	1	1						25	
Micro nutrient deficiency in crops	1	1						25	
Nutrient Use Efficiency	1	1						25	
Soil and Water Testing									
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants									
			Others				SC/ST					Grand Total
			Male	Female		Total	Male	Female		Total		
development of low/minimum cost diet												
Designing and development for high nutrient efficiency diet												
Minimization of nutrient loss in processing												
Gender mainstreaming through SHGs												
Value addition												
Income generation activities for empowerment of rural Women												
Location specific drudgery reduction technologies												
Women and child care												
Total												
VI Agril. Engineering												
Total												
VII Plant Protection												
Integrated Pest Management												
Integrated Disease Management												
Bio-control of pests and diseases												
Production of bio control agents and bio pesticides												
Total												
VIII Fisheries												
Integrated fish farming												
Total												
IX Production of Inputs at site												
Vermi-compost production												
Organic manures production												
Total												
X Capacity Building and Group Dynamics												
Leadership development	1	1	10	10		20	3	2	25		25	
Group dynamics	1	1	10	10		20	3	2	25		25	
Formation and Management of SHGs	1	1	10	10		20	3	2	25		25	
Mobilization of	1	1	10	10		20	3	2	25		25	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
social capital											
Entrepreneurial development of farmers/youths	1	1	10	10		20	3	2	25		25
WTO and IPR issues											
Total											
XI Agro-forestry											
Total											
XII Others (Pl. Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping											
Seed production											
Planting material production											
Vermi-culture											
Value addition											
Sheep and goat rearing											
Para extension workers											
TOTAL											
(C) Extension Personnel											
Productivity enhancement in field crops											
Integrated Pest Management											
Integrated Nutrient management											
Protected cultivation technology											
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production											
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL											

B) OFF Campus

Thematic Area	**No. of Courses**	**Duration (days)**	**No. of Participants**						
			Others			**SC/ST**			**Grand Total**
			Male	**Female**	**Total**	**Male**	**Female**	**Total**	
(A) Farmers & Farm Women									

I Crop Production									
Weed Management									
Resource Conservation Technologies									
Cropping Systems									
Crop Diversification									
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management									
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	02	08	06	14	20	16	36	50
Export potential vegetables	02	02	08	06	14	20	16	36	50
Protective cultivation (Green Houses, Shade Net etc.)	02	02	08	06	14	20	16	36	50
b) Fruits									
Cultivation of Fruit	02	02	08	06	14	20	16	36	50
Management of young plants/orchards	02	02	08	06	14	20	16	36	50
Export potential of ornamental plants	01	01	04	03	07	10	08	18	25
Propagation techniques of Ornamental Plants	02	02	08	06	14	20	16	36	50
d) Plantation crops									
e) Tuber crops									
f) Spices	02	02	08	06	14	20	16	36	50
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	1	1							25
Soil and Water Conservation	1	1							25
Integrated Nutrient Management	1	1							25
Production and use of organic inputs	1	1							25
Management of Problematic soils	1	1							25
Micro nutrient deficiency in crops	1	1							25
Nutrient Use Efficiency	1	1							25
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									

Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development	1								25
Group dynamics	1								25
Formation and Management of SHGs	1								25
Mobilization of social capital	1								25
Entrepreneurial development of farmers/youths	1								25
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									

Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan	Farmers & Farm women	Income generating activities for farm women through SHGs	1							20
Jan	Farmers & Farm women	Nutritional Garden for nutritional security	1							20
Jan	Farmers & Farm women	Production technology of oilseed sesame crop	1							25
Feb	Farmers & Farm women	Formation of FPO and its management	1							25
Feb	Farmers & Farm women	Entrepreneurship development through FPO	1							25
Mar	Farmers & Farm women	Use of ICT tools in agriculture	1							25
Apr		Production	1							25

		technology of Paddy straw Mushroom								
Soil Science										
January	Farmers & Farm women	Training on Integrated Nutrient Management in Finger Millet	1							25
February	Farmers & Farm women	Hands on Training on production of ermin compost	1							25
March	Farmers & Farm women	Training on preparation of vermin wash	1							25
April	Farmers & Farm women	Hands on training on soil sampling	1							25
May	Farmers & Farm women	Training on soil treatment through biofertilizer	1							25
June	Farmers & Farm women	Training on green manuring in Kharif paddy	1							25
Agrometerology										
Agriculture Engineering										
March	Farmers & Farm women	Micro irrigation system	1							25
Apr	Farmers & Farm women	Post-harvest management and processing of millets	1							25
May	Farmers & Farm women	Importance, operation and maintenance of farm machinery	1							25
June	Farmers & Farm women	Rain water harvesting and management	1							25
March	Farmers & Farm women	Micro irrigation system	1							25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
July	Farmers & Farm Women	Different types of Nursery beds and their uses	01	04	03	07	10	8	18	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	
Sept	Farmers & Farm Women	Importance of Fruit Bagging in Guava	01	04	03	07	10	8	18	25
Aug	Farmers & Farm Women	Production technology of Papaya	01	04	03	07	10	8	18	25
June	Farmers & Farm Women	Care and Maintainace of Orchards	01	04	03	07	10	8	18	25
Oct	Farmers & Farm Women	Propagation of Marigold through cuttings	01	04	03	07	10	8	18	25
Aug	Farmers & Farm Women	Cultivation of Tomato under Low cost protected structure	01	04	03	07	10	8	18	25
Jun	Farmers & Farm Women	Improved Production technology of Kharif Onion	01	04	03	07	10	8	18	25
Jun	Farmers & Farm Women	Improved Production technology of Ginger	01	04	03	07	10	8	18	25
Jun	Farmers & Farm Women	Turmeric Propagation through Plug Nursery technique	01	04	03	07	10	8	18	25
Sept	Farmers & Farm Women	Production technology of Marigold	01	04	03	07	10	8	18	25
Nov	Farmers & Farm Women	Ridge and Furrow Method of watermelon cultivation	01	04	03	07	10	8	18	25
Feb	Farmers & Farm Women	Zero Energy Cool Chamber for Storage of vegetables	01	04	03	07	10	8	18	25
July	Farmers & Farm Women	Different types of Nursery beds and their uses	01	04	03	07	10	8	18	25
July	Farmers & Farm Women	Production technology of Banana	01	04	03	07	10	8	18	25
Oct	Farmers & Farm Women	Production technology of Coriander	01	04	03	07	10	8	18	25
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
May	Farmers & Farm	Income generating	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	
	Women	activities for farm women through SHGs								
Jun	Farmers & Farm Women	Leadership development in farm women	1							25
July	Farmers & Farm Women	Nutritional security through nutritional garden	1							25
Sept	Farmers & Farm Women	Decision making in farm women	1							25
Oct	Farmers & Farm Women	Formation and management of FPO	1							25
Nov	Farmers & Farm Women	Leadership development in farm women	1							25
Dec	Farmers & Farm Women	Formation of FPO and its management	1							25
Soil Science										
July	Farmers & Farm Women	Hands on training on application of biofertilizer in pulses	1							25
August	Farmers & Farm Women	Training on application of liquid fertilizer in cereal, pulses and oil seed crops	1							25
September	Farmers & Farm Women	Hands on Training on preparation of Ghanjeevamrit	1							25
October	Farmers & Farm Women	Hands on Training on preparation of Beejamrit and Jeevamrit	1							25
November	Farmers & Farm Women	Training on soil treatment through biofertilizer	1							25
December	Farmers & Farm Women	Training on Integrated nutrient management in Millet crops	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	
Agriculture Engineering										
Jan	Farmers & Farm Women	Agricultural Drone technology	1							25
February	Farmers & Farm Women	Agricultural Drone technology	1							25
July	Farmers & Farm Women	Importance, operation and maintenance of farm machinery	1							25
August	Farmers & Farm Women	Agricultural Drone technology	1							25
Sept	Farmers & Farm Women	Agricultural Drone technology	1							25
Oct	Farmers & Farm Women	Crop residue management by baler	1							25
Nov	Farmers & Farm Women	Micro irrigation system	1							25
Dec	Farmers & Farm Women	Micro irrigation system	1							25

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
September	Rural Youth	Orchard Establishment and Maintenance	06	12	06	18	04	03	07	25
December	Rural Youth	Nursery Management of Horticulture crops	06	11	07	18	03	04	07	25
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Soil Science										
Oct	Rural Youth	Vermicompost Production Technology	2							25

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
September	RHEO	Orchard Establishment and Maintenance	07	12	06	18	04	03	07	25
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	*Duration*	Client PF/ RY/ EF	No. of courses	No. of participants							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	5									250
Kisan Mela	1									500
Kisan Ghosthi	5									150
Exhibition	5									750
Film Show	5									250
Method Demonstrations	5									250
Farmers Seminar	2									100
Workshop	12									360
Group meetings	10									200
Lectures delivered as resource persons	15									400
Newspaper coverage	20	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	6	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	6	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	10	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Advisory Services	104									Mass
Scientific visit to farmers field	100									1000
Farmers visit to KVK	10									500
Diagnostic visits	20									400
Exposure visits	4									200
Ex-trainees Sammelan	2									100
Soil health Camp	1									200
Animal Health Camp	2									100
Agri mobile clinic	-									-
Soil test campaigns	1									50
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	2									50
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	6									100
Others (pl. specify)Swachhata Abhiyan	12									400
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
OILSEEDS	Mustard	DRMR 150-35	8.00
PULSES	Black Gram	Indira Urd Pratham	13.00
VEGETABLES	Turmeric	Roma	20.00
	Turmeric	Salem	30.00
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Moringa	PKM-1	500
	Lemon	Konkan seed less	500
	Citrus	Kagji	200
	Karonda	Local	40000
	Custard apple	Local	500
	Mango	Indira Nadiraj /Mallika / Amrapalli	1000
	Tamarind	Local	200
	Jamun	Local	200
	Bael	Local	200
	Aonla	Local	600
FOREST SPECIES			
SPICES			
VEGETABLES	Vegetable Seedlings	Tomato, Brinjal, Chilli, Cabbage,Cauliflower ,Onion	30000
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)	Napier	COBN-5	200000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	*Rhizobium*			
3	*Earthworm*	E. Fetida		100
4	*Compost*			20000
BIOFERTILIZERS				
1	Vermicompost			11000
2	NADEP			6000
BIO PESTICIDES				
1	Dasparni ark			200 L
2	Pesticides			200 L

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milch	Gir	6	5400 (Milk lit)
SHEEP AND GOAT	Goat	Barberi	10	120 (Meat kg)
POULTRY	Meat and Egg	Japanese Quail	600	10000 chicks
FISHERIES	Fish	Rohu +Katla + Mrigal	-	100 kg fish
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter :4

Date of start	Periodicity	Number of copies to be published
Jan - Dec	Quarterly	100

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	Paraswani	Mahasamund	12 Kms

1. No. of farm families selected per village : 50
2. No. of survey/PRA to be conducted: 0

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2017.

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	510	510	30	
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Dena Bank	To form the SHG and for Providing facilities of loan to the farmers.
NABARD	Providing fund & Subsidy for economically weak farmers. Providing technical support for organic farming and preparation of biopesticides.
State Agriculture Department	Participation in farmers training Programme. Providing subsidy to adopted farmers of the KVK on inputs & equipments Collaboration for organization of Kisan Mela, Field Day, Exhibition, Joint implementation for different programmes ofATMA
State Deptt. of Horticulture	❖ Participation in training programme ❖ Synergy for different government schemes ❖ Provide planting materials
State Deptt. of Veterinary Science,	Training, Visit and arranging jointFeed and fodder production programme and provide the facility of AI and vaccination
C.G. Rajya Krishi Eyam Beej Vikas Nigam Ltd.	To take seed production programme at KVK Farm as well as farmer's field.
IFFCO	Training demonstration and co-operative Sangosthi
State Fisheries Department,	Trainings & demonstration
Zila panchayat	Financial contribution received for infrastructural development viz. Orchard establishment, vegetable nursery, lac cultivation, vermin composed unit, NADEP unit, fish production
IPL & RCF	Training demonstration and Co-Operative Sangosthi
NHB, Gurgoan	Farmer training on Improved horticulture technology to Sansad Adarsh Gram
NFDB Hyderabad	Skill development training on Fish production & management
MGNREGA	Construction of Community ponds,

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 Beneficiary/ Area/Coverage
Feb	Demonstration of agri drone	12
Apr	Azolla farming as feed supplement of cattle	12
May	Awareness Programme on "Role of agriculture implements in mitigating the climate change	50
Jun	Animal health camp and vaccination	25
Aug	Establishment of backyard poultry unit	12
Oct	Awareness programme on importance on role of Pulse crop in resilient farming	25
Nov	Use of straw baler under Farm mechanization	12
Dec	Establishment of Azola Unit	25

Planning for Crop Cafeteria

Total Area of Crop cafeteria: **1500** Sq m

Crop	Season	Variety	Particulars / details	Area (Sq m)
Black Gram	Kharif	Indira Urd Pratham	Duration -75-80 days, Yield-12-14 qt/ha, Yellow Mosaic & powdery mildew resistance	200
Turmeric	Kharif	Roma	Duration – 250-260days Yield-20.70 t/ha, Dry recovery -31% , Curcumin -9.3 % Oleoresin -13.2%, Essential Oil -4.2%	200
Turmeric	Kharif	Salem	Duration - 250days Yield-18-20 t/ha , Curcumin -4.7 %	200
Wheat	Rabi	CG-1023 (C.G. Hansa)	Suitable for cultivation in timely (November) sown with restricted irrigation condition. Excellent chapatti making quality score 8.06. High Zinc Content-40.4PPM. Duration-115-117Day. Yield 40-45qt/ha	120
Wheat	Rabi	CG-1029 (Kanishka)	Excellent chapatti making quality score 8.2.Duration-103-105Day. Yield 50-55 qt/ha. Suitable for MP, C.G. & Rajsthan	120
Wheat	Rabi	CG-1040	-	120
Wheat	Rabi	CG-1044	-	120
Wheat	Rabi	CG-1013 (CG- Genhu -03)	Duration-115-117Day. Yield 55-60 qt/ha. Tolerant to brown & black rust	120
Wheat	Rabi	CG-1036(Vidha)	Cereal Suitable for cultivation in timely (November) sown with restricted irrigation condition. Excellent chapatti making quality score 8.5 Duration-110-114Day. Yield 40-60 qt/ha.	120
Coriander	Rabi	CG- Shri chandrahasini Dhaniya-2	Moderately tolerant to powdery mildew and aphids. Suitable for leafy as well as seed purpose. High volatile oil content (0.47%) Average Yield 18.4qt/ha. Recommended for Chhattisgarh, Rajasthan, Bihar, Uttar Pradesh Madhya Pradesh, Haryana, Gujarat, Uttarakhand, Andhra Pradesh, Telagana, Tamil Nadu.	180

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Quail Unit	Japanese Quail	369	10000 chicks
Dairy Unit	Cow- Gir	213	5400 lit
Duck cum Fish Unit	Duck- White pekin + Khaki Cambell, Fish- Rohu +Katla + Mrigal	2000	100 Duckling + 100kg Fish
Vermicompost Unit	28 nos.Vermicompost tank	545	546 qt. Vermicompost
Azola Unit	Azola Pinata , 40 nos. tank	286	3.6 t per year
Hydroponics Fodder Unit	Green Fodder production round the year	5	8qt green fodder
Posan Badi Unit	Fruits & Vegetable availability for a family round the year	200	2-3 kg per day

Thank You