

ANNUAL ACTION PLAN 2023

KVK Mahasamund

January 2023 to December 2023

ANNUAL ACTION PLAN 2023

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.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. 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	Dr. Arvind Kumar Nandanwar	SMS	LPM	56100-177500, 73200	24.09.12	01.10.18	9993544995	arvind.nandanwar@gmail.com	
4	Subject Matter Specialist	Shri Kunal Chandrakar	SMS	Soil Science	56100-177500, 65000	16.09.14	10.08.15	9754377591	kunal1586@gmail.com	
5	Subject Matter Specialist	Mrs. Rajni Dharmendra Agashe	SMS	Agricultural Extension	56100-177500, 65000	22.09.14	12.10.20	7389325085	rajniagashe@gmail.com	
6	Subject Matter Specialist	Er. Ravish Keshri	SMS	Soil & Water Engineering	56100-177500, 69000	20.10.14	20.10.14	9425373479	ravishkeshri@gmail.com	
7	Subject Matter Specialist	Deepanshu Mukherjee	SMS	Agro meteorology	56100-177500, 65000	07.09.19	07.09.19	6261968323	deepajeet10@gmail.com	
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	Smt. Punitha Kartikeyan	PA (Comp)	Computer Science	35400-112400, 47600	26.09.12	29.07.13	9424231673	punitakartikeyan@gmail.com	
10	Farm Manager	Mr. Kamal 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 Narottam Sahu	AG-2 (Contractual)	-	18420 (Fixed)	01.01.21	01.01.21	9926848045	kvkmahasamund@gmail.com	
13	Driver	Shri B. P. Dhruw	Driver	-	49000	-	20.12.05	7697759028	kvkmahasamund@gmail.com	
14	Driver	Mr. Rajesh Markandey	Driver	-	25400	02.04.13	02.04.13	7566000700	kvkmahasamund@gmail.com	
15	Supporting staff	Shri Khayal Das Vaishnav	Messenger	-	26600	04.02.06	04.02.06	9516348175	kvkmahasamund@gmail.com	
16	Supporting staff	Vacant	Watchman	-	-	-	-	-	-	

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. N o.	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						

B) 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	86501	working
Tractor	2005	Write off		Write off

C) 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	July 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(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.	<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Density of population is lower than state average. Hence large area of free land is available for industrialization. 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Raipur and Durg districts are well developed cities and known as the industrial cities in CG state is near to Mahasamund district 	<ul style="list-style-type: none"> 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.

Add AES if needed

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	Entisols (Bhata): lateritic	Acidic, low nitrogen, low phosphorus, medium potassium	58438
2	Inceptisols (Matasi): Sandy loam	Low nitrogen, medium phosphorus, high potassium	107547
3	Alfisols (Dorsa): Clay loam	Low nitrogen, medium phosphorus, high potassium	59667
4	Vertisols (Kanhar): Clayey	Medium nitrogen, medium phosphorus, high potassium	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	12375	184185	14.88
2	Vegetables	17047	297923	17.47
3	Spices	5011	56047	11.18
4	Flowers	1628	24427	15.00

Source: Department of Horticulture and Farm Forestry, Nava Raipur, C.G,2021-22

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

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	6.4	30.0	7.0
Feb, 22	7.0	34.0	8.5
Mar, 22	0.0	41.0	15.0
Apr, 22	5.6	44.5	20.5
May, 22	2.5	44.8	20.0
Jun, 22	2.8	46.5	23.0
July, 2022	48.2	35.5	24.8
Aug., 2022	111.0	24.2	23.2
Sept., 2022	29.8	34.4	23.8
Oct. 2022	22.0	33.5	15.0
Nov. 2022	0.0	33.5	10.0
Dec. 2022	0.0	32.5	8.2

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 (2022)

Sl. No.	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
20	96	11	66

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
48	1260	13	250

Seed Production (Qtl.)	Planting material (Nos.)
56	809000

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									

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
11	2	1	3		1	1		1		

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
4	2	1		1				4

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture (OFT-1)
Title of on-farm trial:	Assessment of fruit bagging in Guava
Year/Season:	2023/ Rabi
Farming situation:	Irrigated

Problem diagnosis:	Pest infestation and low quality fruits.
Thematic area:	Precision Agriculture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fruit bagging in Guava, Bagging Prevents
T2 –Recommended Practice-	Pest infestation, improves colour and quality of fruits.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Guava
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture (OFT-2)
Title of on-farm trial:	Assessment of Marigold Propagation through cuttings
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Lack of Production technology of Marigold through cuttings
Thematic area:	Precision Agriculture
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-	Marigold Propagation through Seeds
T2 –Recommended Practice-	Marigold Propagation through Cuttings
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Marigold
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture (OFT-3)
Title of on-farm trial:	Assessment of Chemical Weed Management in Onion
Year/Season:	2023/Rabi
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/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Pendamethalin @ 2 lt. per ha after 0-3 days after transplanting
T2 –Recommended Practice-	Oxyflourfen @ 250 ml. /ha after 20 days after transplanting
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture (OFT-4)
Title of on-farm trial:	Assessment of Colocassia Variety Indira Arbi-2
Year/Season:	2023/Kharif
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/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 Use of Unidentified Variety
T2 –Recommended Practice-	T2 Improved Colocassia Variety Indira Arbi-2
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	

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

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science (OFT-5)
Title of on-farm trial:	Assessment of foliar application of Nano Urea in paddy
Year/Season:	2023- Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency
Thematic area:	Nutrient management through foliar application
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 fertilizer application
T2 –Recommended Practice-	T2- 1 st Spray as foliar application of Nano urea @4 ml/litre of water after 30-35 DAS/DAT and 2 nd Spray at 50-55 DAS/DAT
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	SG CARS, Jagdalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science (OFT-6)
Title of on-farm trial:	Assessment of Natural farming Based Nutrient Management in Scented Rice (Var. – CG Devbhog)
Year/Season:	2023- 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	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science (OFT-7)
Title of on-farm trial:	Assessment of INM in Finger Millet (Var. Chhattisgarh Ragi 2)
Year/Season:	2023- 24- Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer, use of local variety, no use of organic manure and Biofertilizer
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, use of local variety, no use of organic manure and Biofertilizer
T2 –Recommended Practice-	T2- Application of 75% (N:P:K-40:20:20 kg/ha.) with seed treatment through Azotobacter + PSB + KSB @5g/kg of seed & FYM 5 ton/ha
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Finger Millet
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science (OFT-8)
Title of on-farm trial:	Assessment of Soil Health Card (SHC) based Nutrient Management in Wheat (Var.- CG 1023 Hansa)
Year/Season:	2023-24, 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-	T1- Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha
T2 –Recommended Practice-	T2- SHC based nutrient management, Improved variety (CG 1023 Hansa)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science (OFT-9)
Enterprise	
Title of on-farm trial	Assessment of ITK on use of neem (Azadirachta indica) and jaggery for treatment of intestinal worm infestation in animals
Problem diagnosed	Appearance of animal health is weak and low milk production
Farming situation	
Production system and thematic area	Health management
Farmers' practices	No treatment of animals
Details of technologies selected for assessment/refinement Treatments	T ₁ : A paste is prepared by mixing 250 g jaggery and 500 g neem (Azadirachta indica) leaves. This paste is given orally to the animals twice daily for the treatment of worm infection up to the 3 days T ₂ :
Source of technology	JNKVV, Jabalpur
No. of animals	20
No. of farmers	5
Critical input	Neem leaves and Jaggery
Cost of input	100
Total cost	2000

Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	
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Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science (OFT-10)
Enterprise	
Title of on-farm trial	Comparative evaluation of poultry bird Sonali and Local
Problem diagnosed	Low production of local breed and it takes a longer period to gain weight
Farming situation	
Production system and thematic area	Breed Assessment
Farmers' practices	Rearing of indigenous breed of poultry
Details of technologies selected for assessment/refinement Treatments	T ₁ : Rearing of cross breed (Sonali) of poultry T ₂ :
Source of technology	TANUVAS, TamilNadu
No. of birds	150
No. of farmers	6
Critical input	Body weight, mortality
Cost of input	7200
Total cost	
Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Body weight, mortality

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science (OFT-11)
Enterprise	
Title of on-farm trial	Assessment of ITK in disease management in goats
Problem diagnosed	High incidence of diarrhea
Farming situation	Farmers use allopathic medicines because they do not know about ITK
Production system and thematic area	Disease management
Farmers' practices	Farmers use allopathic medicines because they do not know about ITK
Details of technologies selected for assessment/refinement Treatments	T ₁ : Juice of gurhal flowers (Hibiscus malvaceae) (3 flowers) 5 ml is orally administered twice a day for 3 days T ₂ :
Source of technology	CIRG, Mathura
No. of animals	30
No. of farmers	6
Critical input	Juice of gurhal flowers
Cost of input	100
Total cost	3000

Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Recovery percentage
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Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science (OFT-12)
Enterprise	
Title of on-farm trial	Assessment of use of gram flour (Cicer arietinum), fenugreek (Trigorella foenumgraecum L.) and jaggery to recover milking efficiency of cattle
Problem diagnosed	Poor and unbalanced feeding to animals causing diarrhea and ultimately adverse effect on milk production
Farming situation	
Production system and thematic area	Livestock Production and Management
Farmers' practices	No use of feed supplement
Details of technologies selected for assessment/refinement Treatments	Make a paste by use of 250 g gram flour , 250 g fenugreek and 250 g jaggery and give twice a day to the animal suffering from decreased milking efficiency up to 10 days
Source of technology	JNKVV, Jabalpur
No. of animals	18
No. of farmers	6
Critical input	Gram flour , Fenugreek and Jaggery
Cost of input	600
Total cost	10800
Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield , Net return and B:C ratio

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering (OFT-13)
Title of on-farm trial:	Assessment of millet planter for sowing of Finger millet (Ragi)
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	High seed rate, Low yield, problem in crop management
Thematic area:	Farm mechanization
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- T1: sowing of Ragi with millet planter
T2 –Recommended Practice-	T2: broadcasting (control)

T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	CRIDA, Hyderabad
Characteristics of technology:	Line sowing, low seed rate
Name of Crop/Enterprises:	Finger millet (Ragi)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering (OFT-14)
Title of on-farm trial:	Assessment of gravity drip for efficient water management in <i>Badi</i>
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Higher amount of water application, weed problem
Thematic area:	Water Management
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Irrigation with gravity drip
T2 –Recommended Practice-	T2: flooding
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	Higher water productivity, low weed infestation
Name of Crop/Enterprises:	Vegetables
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering (OFT-15)
Title of on-farm trial:	<i>Assessment of Maize Dehusker cum Sheller</i>
Year/Season:	Kharif/Rabi 2023
Farming situation:	NA
Problem diagnosis:	Less efficiency, tedious, time consuming

Thematic area:	Farm mechanization
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Maize Dehusker cum Sheller
T2 –Recommended Practice-	T2: Manual Labour
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	Higher field capacity
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering (OFT-16)
Title of on-farm trial:	<i>Assessment on effect of vibratory subsoiler on growth and yield of Black gram</i>
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Crop damage due to high intense rainfall and poor infiltration / Drainage
Thematic area:	Farm Mechanization
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: Deep tillage by Rotary Subsoiler
T2 –Recommended Practice-	T2: No deep tillage (control)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISR, Indore
Characteristics of technology:	Increase infiltration and darinage
Name of Crop/Enterprises:	Black Gram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT: 17

Title	Assessment of utilization of ICT based app (Crop doctor) in Plant protection of paddy crop by the farmers of Mahasamund district. Crop Doctor App.
Season & Year	2023-24, 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	No use of ICT tools in agriculture by the farmers
No. of replication (Farmers)	50

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: 18

Title	Assessment of performance of Farmers Producer Organizations on Socio-Economic, Knowledge and Technology level on members of FPO in Mahasamund District of Chhattisgarh.
Season & Year	2023-24, Rabi
Problem identified	Farmers are not jointly organized with FPOs 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	Farmer Producer Organization
Farmers Practice	No membership of farmers in FPO for production, processing, value addition and marketing of agricultural produce or other allied activities
No. of replication (Farmers)	50

Results / findings

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

Information about Extension OFT: 19

Title	Study on Impact of CFLD Pulses (Chickpea, Variety RVG-202) on the, Transfer of Technology, Production and Income of farmers in Mahasamund District
Season & Year	2023-24,Kharif
Problem identified	The impact assessment of CFLD Pulses (Chickpea, Variety RVG-202) is not conducted yet which is vital to assess the worthiness or effectiveness of this programme.
Thematic Area	Impact Assessment
Farming situation	---
Name of Technology Intervention under study	Chickpea
Farmers Practice	Use of local variety and traditional practices
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Extension gap, Technology gap, Additional return, Percent increase yield, Technology index, Problem faced by farmers to adopt technology.	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection (OFT-20)
Title of on-farm trial:	Assessment of IPM module against <i>Helicoverpa armigera</i> in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	30% loss of crop yield due to infestation of <i>Helicoverpa armigera</i> in Chickpea
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Farmers practice
T2 –Recommended Practice-	T2- Use of Pheromone traps @ 25 Nos/ ha. Bird perches @ 50 Nos/ ha , Need based insecticide
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur

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

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	Cowpea	Crop Production	Improved Variety “Kashi Kanchan”	Seed	Kharif 2023	0.4	05	Yield, B:C ratio
2	Papaya	Crop Production	Improved Variety VNR Ameena	Planting Material	Rabi 2023	0.4	05	Fruit Weight, Peel wt, Yield, B:C ratio
3	BlackGram	INM	Demonstration of INM in Black gram	Seed, Biofertilizer	Kharif 2023	4.8	12	Number of pod/plant, yield (q/h) &

								B:C ratio
4	Lathyrus	Nutrient management	Demonstration on improved Utera technique in Lathyrus	Seed, Biofertilizer, Liquid Fertilizer	Rabi 2023-24	4.8	12	1. Plant height 2. Plant root growth observation 3. Root nodule /plant 4. yield q./ha 5. B:C Ratio
9	Paddy Straw Mushroom	Integrated Farming System (IFS)	Paddy Straw Mushroom production	Spawn, Polythene Bags and other Essential Inputs	Kharif 2023 +Rabi 2023-24 (both season)	10	10	Local Check/ Farmer Practice: Yield and B : C ratio
10	Vegetables and Fruits	Nutritional security, Nutrition Sensitive Agriculture	Nutritional garden	Seeds and Saplings of Vegetables and Fruit Plants	Kharif + Rabi 2022	10	10	Local Check/ Farmer Practice: Yield and B : C ratio
11	Paddy	IPM	IPM based module	Pheromone Traps and Bio agents	Kharif 2023	02	05	Yield loss due to stem borer and indiscriminate use of insecticide .

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05		1500
2	Farmers Training	48		1260
3	Media coverage	30		Mass
4	Training for extension functionaries	15		600

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
Farm Mechanization - Paddy Crop Residue Management by Tractor Operated	Paddy	Kharif/Rabi	12	5	NA	Field capacity (Ha/hr), cost of operation (Rs./ha)		
Farm Mechanization	Wheat	Rabi	12	5	Seed	Field capacity (Ha/hr), yield,		

on - Demonstration of seed cum fertilizer drill for sowing of wheat						Q/ha, BC Ratio		
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**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
Rearing of Improved Breed of bird in the Backyard for quick Income Generation	(Vanraja and Grampriya)	10	300	Distribution of chicks (Vanraja and Grampriya)	Body weight, mortality		
Demonstration of Popularization of Quail farming in Mahasamund district	Quail	10	50	Quail chicks	Body weight, mortality, FCR		

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

Other Enterprises

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Green Gram	50 acre	Fungicide, Bio Fertilizer,	Seed and bio fertilizer	2023-24	20 ha	25/50	
2	Sesame	75 acre	Fungicide, Bio Fertilizer,	Seed and bio fertilizer	2023-24	30 ha	40/75	
3	Chickpea	50 acre	High yielding variety and seed treatment with bio fertilizer	Seed and bio fertilizer	2023-24	20 ha	25/50	

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6		200
2	Farmers Training	10		250
3	Media coverage	6		Mass
4	Training for extension functionaries	6		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									
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									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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								25	
IV Livestock Production and Management									
Dairy Management	1	1						25	
Poultry Management	1	1						25	
Disease Management	1	1						25	
Feed management	1	1						25	
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition									
Income generation									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST				Grand Total
			Male	Female	Total	Male	Female	Total		
activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Women and child care										
Total										
VI Agril. Engineering										
Total	1	1								30
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									25
Group dynamics	1									25
Formation and Management of SHGs	1									
Mobilization of social capital	1									25
Entrepreneurial development of farmers/youths	1									25
WTO and IPR issues										
Total										
XI Agro-forestry										
Total										
XII Others (Pl.										

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production											
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							Grand Total
			Others			SC/ST				
			Male	Female	Total	Male	Female	Total		
(A) Farmers & Farm Women										
I Crop Production										
Weed Management										
Resource Conservation										

Technologies									
Cropping Systems									
Crop Diversification									
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management									
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1							25
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	1	1							25
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards	1	1							25
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants	1	1							25
d) Plantation crops									
e) Tuber crops									
f) Spices	2	2							50
g) Medicinal and Aromatic Plants	1	1							25
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	1	1							25
IV Livestock Production and Management									
Dairy Management	1	1							25
Poultry Management	1	1							25
Disease Management	1	1							25

Feed management	1	1							25
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
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	1	1							30
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										
Plant Protection										
February		Oyster Mushroom Production	1							25
March		Insect pest management of Ragi crop	2							25
April		Paddy Mushroom Production	1							25
Nov		Insect pest of management Rabi Pulses	1							25
Dec		Training on Rodent Management	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan		Income generating activities for farm women through SHGs	1							20
Jan		Nutritional Garden for nutritional security	1							20
Jan		Production technology of oilseed sesame crop	1							25
Feb		Formation of FPO and its	1							25

		management								
Feb		Entrepreneurship development through FPO	1							25
Mar		Use of ICT tools in agriculture	1							25
Apr		Production technology of Paddy straw Mushroom	1							25
Agriculture Engineering										
Feb		Post harvest management and processing of millets	1							25
Apr		Importance, operation and maintenance of farm machinery	1							25
June		Rain water harvesting and conservation	1							25
August		Post harvest management and processing of millets	1							25
Oct		Post harvest management and processing of millets	1							25
Dec		Micro irrigation system and management	1							25
Soil Science										
January		Training on Integrated Nutrient Management in Finger Millet	1							25
February		Hands on Training on production of vermin compost	1							25
March		Training on preparation of vermin wash	1							25
April		Hands on training on soil sampling	1							25
May		Training on soil treatment through	1							25

		biofertilizer								
June		Training on green manuring in Kharif paddy	1							25
Agrometerology										
Feb		Complete Information of Meghdoot app agriculture as well as weather forecast to the farmers.	1							25
Apr		Damini app technologies in agriculture	1							25
June		Weather elements in agriculture	1							25
Aug		Importance of Weather Instruments in Agriculture	1							25
Oct		Impact of Climate change in agriculture	1							25
Dec		Importance about Agro Observatory in Agriculture	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										
Feb		Zero Energy Cool Chamber for Storage of vegetables .	1							25
Jun		Improved Production technology of Kharif Onion	1							25
June		Propagation of Marigold through cuttings	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	
Jun		Improved Production technology of Ginger	1							25
Jun		Turmeric Propagation through Plug Nursery technique	1							25
July		Different types of Nursery beds and their uses	1							25
July		Different types of Nursery beds and their uses	1							25
Aug		Importance of Fruit Bagging in Guava	1							25
Sept		Production technology of Marigold	1							25
Sept		Care and Maintainace of Orchards	1							25
Nov		Ridge and Furrow Method of watermelon cultivation	1							25
Oct		Cultivation of Tomato under Low cost protected structure	1							25
Every Month		Monthly workshop and Training	1							25
Livestock production										
February		Disease prevention through vaccination in cattle, buffalo, sheep, goat and poultry	1							25
March		Minimizing mortality through disease prevention and feed management in backyard poultry birds	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	
April		Prevention of mastitis in CB cows, Clean milk production and value addition	1							25
May		Feed management options for economic milk production from CB cows	1							25
June		Care and management of calves, kids and lambs to prevent mortality	1							25
July		Improved goat farming in rural youth employment generation	1							25
Aug		Management of Repeat breeding and anoestrus problems in cattle buffalo and goats	1							25
Home Science										
Plant Protection										
May		Training on Lac Production	2							25
June		Insect Pest Management of paddy	2							25
July		Insect pest management of Kharif pulse crops	1							25
Aug		Insect Pest Management of paddy	2							25
Sep		Insect pest management of Ragi crop	1							25
Oct		Insect pest management of Rabi Oilseeds	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	
Sept		Post harvest management and processing of millets	1							25
Nov		Micro irrigation system and management	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
May		Income generating activities for farm women through SHGs	1							25
Jun		Leadership development in farm women	1							25
July		Nutritional security through nutritional garden	1							25
Sept		Decision making in farm women	1							25
Oct		Formation and management of FPO	1							25
Nov		Leadership development in farm women	1							25
Dec		Formation of FPO and its management	1							25
Agriculture Engineering										
Jan		Post harvest management and processing of millets	1							25
Mar		Post harvest management and processing of millets	1							25
May		Importance, operation and maintenance of farm machinery	1							25
July		Rain water harvesting and conservation	1							25
Sept		Post harvest management and processing of millets	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	
Nov		Micro irrigation system and management	1							25
Soil Science										
July		Hands on training on application of biofertilizer in pulses	1							25
August		Training on application of liquid fertilizer in cereal, pulses and oil seed crops	1							25
September		Hands on Training on preparation of Ghanjeevamrit	1							25
October		Hands on Training on preparation of Beejamrit and Jeevamrit	1							25
November		Training on soil treatment through biofertilizer	1							25
December		Training on Integrated nutrient management in Millet crops	1							25
Agrometerology										
Mar		Meghdoot app technologies in agriculture	1							25
May		AAS bulletin preparation in agriculture of District and Block Level	2							25
Jul		IntroductionClimate change in agriculture	1							25
Sep		Crop Doctor App technologies in agriculture	1							25
Nov		Different types of ICT tools in agriculture	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										
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June			1							25
July			1							25
Sept			1							25
Horticulture										
Oct			1							25
Nov			1							25
Livestock production										
Aug			1							25
Apr			1							25
May			1							25
Home Science										
Dec			1							25
Jan			1							25
Plant Protection										
Dec			1							25
Jan			1							25
March			1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration <i>n</i>	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor ing 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
Agri mobile clinic	-									
Animal Health Camp	1									
Awareness programme	15									
Celebration of important days	10									
Diagnostic visits	30									
Exhibition	4									
Exposure visits	2									
Ex-trainees Sammelan	2									
Farm advisory Services	52									
Farmers visit to KVK	500									
Field Day	5									
Group meetings	15									
Kisan Ghosthi/Sammelan	5									
Kisan Mela	1									
Krishi Mahotsav	1									
Lectures delivered as resource persons	20									
Mahila Mandals conveners meetings	-									
Method Demonstrations	10									
Pradhanmantri phasal beema yojana	-									
Scientific visit to farmers field	100									
Self Help Group conveners meetings	1									
Soil health Camp	1									
Soil test campaigns	1									
Technology Week	4									
Radio talks	2									
Extension literature	5									
TV talks	2									
Newspaper coverage	30									
Film Show	10									
Others	10									
Total	640									

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
	Finger millet	C.G. Ragi-2	20.00qt.
	Kodo	C.G. Kodo-2	10.00qt.
OILSEEDS	Mustard	Giriraj / Indira Toriya	8.00qt.
	Linseed	RLC-143	3.00qt.
PULSES	Black Gram	Indira Urd Pratham	15.00qt.
VEGETABLES	Turmeric	Roma	50 qt
	Coriander	CG. Shrichandrahasini Dhaniya	1 qt
FLOWER CROPS	Marigold	Pusa Basanti	1 qt
		Pusa Narangi	1 qt
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady/Ameena	1000
	Moringa	PKM-1	30000
	Lemon	Konkan	2000
	citrus	Kagji	10000
	Pomegranate	Bhagwa	5000
	Guava	Alahabad Safeda	5000
	Karonda	Local	60000
	Custard apple	Local	2000
	Mango	Indira Nadiraj /Mallika / Amrapalli	2000
	Mango	Local	25000
	Tamarind	Local	10000
	Jamun	Local	10000
	Bael	Local	5000
	Aonla	Local	20000

	Jaickfruit	Local	20000
FOREST SPECIES			
SPICES			
VEGETABLES	Vegetable Seedlings	Tomato, Brinjal, Chilli, Cabbage, Cauliflower	100000
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)	Marigold	Pusa Basanti/ Pusa Narangi	2000
	Lemon Grass	Krishna	250000
	Palmarosa	Trishna	250000

Bio-products

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

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milch	Gir	6	5475
SHEEP AND GOAT	-	-	-	-
POULTRY	Meat and Egg	Japanese Quail	3000	70000 chicks
FISHERIES	Rohu, Katla, Mrigal	-	-	200
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
	Every three months	300

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:6....(no.)

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
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	Dhansuli	Mahasamund	10 KM
2	Achola	Mahasamund	30 KM

1. No. of farm families selected per village : 40

2. No. of survey/PRA to be conducted: 1/1

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	750	750	40	
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 of ATMA
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 joint Feed 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,
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Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No--→ Yes

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Not Applicable	Not Applicable

Action plan for Flagship programmes implemented at KVK

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

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries	Targeted Area/Coverage
January	Feeding management & disease control programme in livestock , Awareness program effect of climate change on agriculture	65	-
February	Training program on summer vegetables, Irrigation management in summer vegetables , Demonstration of mulching & stacking in summer vegetables	52	0.8 ha
March	Fish pond cleaning, Feeding management & disease control programme in livestock	48	2 ha
April	Practices of Summer deep ploughing, Land levelling,soil amendements, soil test based nutrient management	45	15 ha
May	Practices of soil and water conservation technique, Training program on nutrition garden	35	1 ha

June	Demonstration of green manuring, short duration pigeon pea on rice bund, Nursery raising in poly tunnel , Water saving paddy cultivation techniques- DSR & SRI	20	4 ha
July	Inputs for Integrated crop management (seed, pesticides & weedicides), incorporation of green manure in paddy field . Demonstration of Drone for application of fertilizer(Nano urea) in paddy crop.	10	3 ha
August	Training program on Insect & pest management in Paddy crop. Demonstration of Drone for application of fertilizer (Nano urea) in paddy crop. Demonstration of Drone for application of Insecticide in paddy crop	55	-
September	Plant protection training in rabi crops, improved cultivation of chilli, cauliflower, cabbage and radish. Demonstration of Drone for application of Insecticide in paddy crop.	35	1 ha
October	Training program on Mushroom cultivation , Demonstration of Drone for application of fungicides in paddy crop.	55	-
November	Practices of zero tillage technique in wheat, Improved cultivation of wheat crop	10	3 ha
December	Demonstration of lathyrus, chickpea and mustard , Importance of Bio fertilizer in cereals, oilseed & pulses crop	08	3 ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria:3000 Sq m

Crop	Season	Variety	Particulars / details	Area (Sq m)
Finger millet	Kharif	C.G. Ragi-2	Duration -115-120 days, Yield-23-25 qt/ha, Dry & Blight tolerant	300
Black Gram	Kharif	Indira Urd Pratham	Duration -75-80 days, Yield-12-14 qt/ha, Yellow Mosaic & powdery mildew resistance	300
Kodo	Kharif	C.G. Kodo-2	Duration -90-95 days Yield-23-25 qt/ha, Suitable for light soil & upland	300
Turmeric	Kharif	Roma	Duration – 250-260days Yield-20.70 t/ha, Dry recovery -31% , Curcumin -9.3 % Oleoresin -13.2%, Essential Oil -4.2%	300
Turmeric	Kharif	Salem	Duration - 250days Yield-18-20 t/ha , Curcumin -4.7 %	300
Ginger	Kharif	Suprabha	Duration - 229days,Yield-16.6 t/ha ,	300
Marigold	Rabi	Pusa Narangi	Produces deep orange flowers with ruffled florets in 125-135 days after sowing. Yield- 25-30 t/ha of fresh flowers, 100-125 kg/ha of seeds	300
Marigold	Rabi	Pusa Basanti	Produces medium sized, lemon yellow flowers in 135-145 days after sowing Yield- Fresh flowers 20-25 t/ha; seed 70-100 kg/ha	300
Marigold	Rabi	Pusa Arpita	Produces medium sized, light orange flowers during mid December to mid February, Yield- 25-30 t/ha of fresh flowers	300
Natural Farming Cowpea + Maize - Wheat	Kharif and Rabi	Cowpea (Kashi kanchan) + Maize (NK-30), Wheat (Ratan)	Comparative studies under Natural, Organic and Conventional farming	1200

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Quail Unit	Japanese Quail	369	100000chick
Dairy Unit	Cow- Gir (6 Milking, 2 Male, 12 Heifer)	213	5475 lit
Duck cum Fish Unit	Duck- White pekin + Khaki Cambell, Fish- Rohu +Katla + Mrigal	2000	100 duckling + 200kg 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	9qt green fodder
Posan Badi Unit	Fruits & Vegetable availability for a family round the year	200	2-5 kg per day