ANNUALACTIONPLAN 2024

Krishi Vigyan Kendra–Bemetara (Chhattisgarh)

YearofSanction –2017

1.1 NameoftheProgrammeCo-ordinatorwithphone&mobileNo.

Name	Telephone/Contact			
	Office	**Mobile**	**Email**	**Website**
Shri Toshan Kumar Thakur	Krishi Vigyan Kendra, Bemetara, Village –Jhal, Chhattisgarh	98266-87395, 70672-87806	kvk.bemetara@igkv.ac.in	kvkbemetaraigkv.org

1.2 StaffPositionon(31thDec, 2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Vacant	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Shri Toshan Kumar Thakur**I/c**	SMS	Fisheries	15600-39100	07/09/2012	02/07/2020	98266-87395	toshan.thakur@gmail.com	
3	Subject Matter Specialist	Dr. Jitendra Kumar Joshi	SMS	Farm Machinery and Power Engg.	15600-39100	05/10/2018	05/10/2018	78050-39366	jitigkv@gmail.com	
4	Subject Matter Specialist	Dr. Lav Kumar Sahu	SMS	Horticulture	15600-39100	13-09-2023	13-09-2023	98933-63083	Sahulove7@gmail.com	
5	Subject Matter Specialist	Dr. (Smt) Tripti Thakur	SMS	Soil Science	15600-39100	13-09-2023	13-09-2023	78987-70214	nayaktripti66@gmail.com	
6	Subject Matter Specialist	Vacant	SMS	Agronomy	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	SMS	Entomology	-	-	-	-	-	-
8	Programme Assistant	Dr. Akhilesh Kumar Kulmitra	P.A.	Plant Pathology	9300-34800	04-10-2023	04-10-2023	83190-11576	akhil.patho@gmail.com	
9	Computer Programmer/ Programme Assistant	Shri Shiv Kumar Sinha	PA(Comp.)	Computer Application	9300-34800	06/09/2012	03/05/2017	79999-46840	sksinhanarayanpur@gmail.com	
10	Farm Manager	Vacant	-	-	-	-	-	-	-	-
11	Assistant	Shri Palash Choubey	AG-I	AG-I	5200-20200	10/06/2021	10/06/2021	81090-92018	palash.choubey@yahoo.in	
12	Jr. Stenographer / Comp. Operator	Shri Bhagwat Prasad Verma	AG-II	AG-II	5200-20200	16/06/2021	16/06/2021	88392-70321	bprasad3185@gmail.com	
13	Driver	Shri Sparsh Patel	Driver	Jeep	5200-20200	16/06/2021	16/06/2021	77240-66863	sparshp610@gmail.com	
14	Driver	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Shri Omprakash Sahu	Peon	Peon	4750-7440	15/06/2021	15/06/2021	96302-88821	omprakash14081988@gmail.com	
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Totalland withKVK(inha):2024

S. No.	Item	Area (ha)
1	Under Buildings	0.8

2	Under Demonstration Units	0.01
3	Under Crops	07
4	Orchard/Agro-forestry	04
5	Others (Aromatic crops, Fallow Land, Pond, Road)	08
	Total	**20**

1.4 InfrastructuralDevelopment:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	14.11.2021	750	47.60	16.06.2020	-	Completed
2	Farmers Hostel	ICAR	14.11.2021	300	34.58	21.09.2020	-	Completed
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing (barbed wire)	MGNREGA	14.11.2021	-	-	-	-	Completed
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm/SeedGodown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	594086.52	2713.3 hour	Good working condition
Motor Cycle 2	-	-	-	-
Bolero (Jeep)	2018	774890.00	175764 km	Good working condition
Other (Pl. specify)	-	-	-	-

C) Equipment&AVaids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Photocopy mashine-1	30.03.2019	49998.99	Working
Computer-1	30.03.2019	98040.00	Working
Computer-2			
Computer-3	30.03.2019	84990.00	Working
Computer-4			
Computer-5	21.03.2020	9864.00	Working
Computer-6	24.03.2020	9625.00	Working
Computer-7	25.03.2020	9924.00	Working
Computer-8	25.03.2020	9924.00	Working
Printer-1	30.03.2019	9900.00	Working
Printer-2	2018	13500.00	Not Working
Printer-3	25.03.2020	9853.00	Working
Printer-4	25.03.2020	9947.40	Working
Printer-5	28.03.2022	18999.99	Working
Printer-6	29.03.2020	28958.00	Working
Printer-7	24.03.2020	9900.00	Not Working
Printer-8	23.03.2020	9850.00	Not Working
UPS-1	24.02.2020	4192.00	Working
UPS-2	2017	1600.00	Working
UPS-3	26.03.2020	4967.80	Working
UPS-4	28.03.2022	2700.00	Working
UPS-5	21.02.2019	1700.00	Working
UPS-6	05.03.2019	7950.00	Working
UPS-7			Working
UPS-8			Working
Camera-1	30.03.2019	49878.99	Working
Projector-1	30.03.2019	44000.00	Working

1.5(A)DetailsofSACmeeting to be conducted intheyear

Sl. No.	Tentative Date

1.	12.07.2024

2. DETAILSOFDISTRICT

Majorfarmingsystems/enterprises(basedontheAgro-ecological situation analysismadebytheKVK)Add AES if needed

S.No.	Farmingsystem/enterprise	Description
1	Rainfed Paddy	Broadcasting biasi, Line sowing, Transplanted rice, Direct seeded rice
2	Rainfed Soybean	Line sowing of soybean, BBF Sowing
3	Paddy –Chickpea	Transplanted rice-line sowing of chickpea
4	Soybean – Chickpea	Flat bedsowing of soybean –line sowing of chickpea
5	Vegetables	Tomato, Cauliflower, Brinjal, Lady Finger, Chilly

DescriptionofAgro-climaticZone&majoragro-ecologicalsituations(basedonsoilandtopography)

S. No.	Agro-climatic Zone	Characteristics
1	Chhattisgarh plain zone	
2	Vertisols (Kanhar-clayey)	Low-lying deep bluish black soil with high moisture retention capacity. It is well suited for rabi crops, particularly chickpea & wheat
3	Inceptisol (Matasi-Sandyloam)	This is a yellow sandy soil, with an admixture of clay. It has limited moisture retention capacity. It is well suited for kharif crops, particularly for paddy&soybean.
4	Alfisols (Dorsa-clayloam)	This type of soil is intermediate in terms of soil moisture retention between kanhar and matasi. This is best described as loamy, and is a colour between brown and yellow.
5	Entisol (Bhata-gravely)	This soil is a coarse-textured, red sandy-gravelly soil, found on upland tops. It is deficientin minerals and other productivity enhancing nutrients.

SWOTAnalysisofeachAgro-EcologicalSituationsofdistrict

AES-1(name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

AES-2 (name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

AES-3 (name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

AES-4 (name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

Add AES if needed

LandUsePattern

S. No.	Particulars	Area “000 ha”
1	Total Geographical area	285.481
2	Forest	0.040
3	Waste Land	52.770
4	Other than cultivated area	-
5	Cultivable waste and alkaline land	5.340
6	Pastures	23.260
7	Bushes	-
8	Current Fallow	2.950

9	Other Fallow	4.400
10	Agricultural Land	392.585
11	Area Sown	397.818
12	Kharif	224.669
13	Rabi	171.949
14	Zaid	1.200
15	Cropping Intensity	176

IrrigatedAreawithDifferentSources:

S. No.	Description	Area (ha)
1	Canal	24000
2	Well	26
3	Tube well	91600
4	Ponds	2280
5	Others	2080
	TOTAL	**27922**

Soiltypes:

S. No.	Soil type	Area, Ha		
		Irrigated	**Un-irrigated**	**Total**
1	Entisol (Bhatha)	3575.32	20773.09	24348.41
2	Sandy Loam (Matasi)	4486.10	26193.00	30679.10
3	Clay Loam (Dorsa)	2425.00	30944.00	39369.00
4	Clayey (Kanhar)	11083.58	117494.03	128577.61
5	(Kachhar	352.00	2123.88	2475.88
	TOTAL	**21922.00**	**197528.00**	**225450.00**

Area,ProductionandProductivityofmajorcropscultivatedinthedistrict
Kharif-

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	199222	5478600.00	27.50
2	Ragi	650	0.0	0.0
3	Jawar	8	0.0	0.0
4	Kodo	386	4830.00	12.50
5	Pigeonpea	2840	30700.00	10.80
6	Soybean	3230	33100.00	10.25
7	Sugarcane	3778.097	348718.00	92.300
8	Maize	266.42	5070.00	26.40
9	Black gram	132	900.00	6.80
10	Green gram	23	140.00	5.90
11	Groundnut	1009	15500.00	15.40
12	Til	63	300.00	4.35
13	Banana	1146	294580.00	-
14	Guava	562	160220.00	-
15	Mango	1036	40850.00	-
16	Papaya	773	29458.00	-
17	Lemon	304	17760.00	-
18	Jack fruit	28	4600.00	-
19	Ber	101	4950.00	-
20	Anola	29	7700.00	-
21	others	92	3740.0	
22	Brinjal	1829	452950.00	-
23	Tomato	2502	520040.00	-
24	Turmeric	266	11380.00	-

25	Ginger	180	31200.00	-
26	Elephant foot yam	471	93680.00	-
27	Garlic	539	15960.00	-

Rabi –

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Wheat	52000	1045200.00	20.10
2	Maize	2000	60900.00	30.43
3	Ragi	550	0.00	0.00
4	Chickpea	71800	719400.00	10.02
5	Lathyrus	29010	66600.00	2.38
6	Pea	1000	8200.00	8.22
7	Lentil	28000	20900.00	6.52
8	Green gram	50	300.00	5.63
9	Black gram	100	600.00	6.13
10	Mustard	3000	16600.00	5.52
11	Linseed	1200	5200.00	4.31
12	Safflower	300	1800.00	6.12
13	Sunflower	100	0.00	0.0
14	Til	450	0.00	0.0
15	Groundnut	150	2300.00	15.02
16	Sugarcane	1000	922100.00	92.20
17	S. Orange	12	710.00	-
18	Custard apple	23	690.00	-
19	Water Melon	88	16000.00	-
20	Musk Melon	121	12710.00	-
21	Dragon Fruit	55	2620.0	-
22	Sapota	0	0.00	-
23	Pomegranate	56	1000.00	-
24	Cauliflower	1692	339240.00	-
25	Onion	591	125350.00	-
26	Potato	969	556450.00	-
27	Coriander	1274	73420.00	-
28	Cabbage	1335	227650.00	-
29	Beans	308	20760.00	-
30	Bitter Guard	822	271360.00	-
31	Green Pea	707	72120.00	-
32	cawpea	1066	116630.00	-
33	Bhindi	1541	218650.00	-
34	Knolkhol	1022	191200.00	-
35	Kaddu	232	89460.00	-
36	Bottle guard	699	176780.00	-
37	Green Chilli	827	26750.00	-
38	Shimla Mirch	246	22700.00	-
39	Carrot	303	17250.00	-
40	Radish	319	37280.00	-
41	Parwal/kundru	175	17730.00	-
42	Methi	130	6000.0	-

Area andProductionofmajor Horticulturecropscultivatedinthedistrict

S. No.	Crops	Area (In ha)	Production (In MT)
1	Fruits	4435	86814.00
2	Vegetables	19337	377559.00
3	Spices	2939	17884.00
4	Flowers	158	2060.40
5	Medicinal & Aromatic	0	0.00

Weatherdata(Jan,2023-Dec.,2023)

Month /Year	**Rainfall (m.m.)**	**Temperature (^{0} C)**	
		Maximum	**Minimum**
Jan, 2023	0	32^0c	9^0c
Feb, 2023	0	36^0c	11^0c
Mar, 2023	36.9	36^0c	18^0c
Apr, 2023	44.6	42^0c	20^0c
May, 2023	25.1	43^0c	20^0c
Jun, 2023	84.4	44^0c	25^0c
July, 2023	283.4	37^0c	23^0c
Aug., 2023	207.0	35^0c	23^0c
Sept., 2023	361.5	35^0c	23^0c
Oct. 2023	5.3	35^0c	16^0c
Nov. 2023	0	33^0c	15^0c
Dec. 2023	0	31^0c	14^0c

Productionandproductivityoflivestock,Poultry,Fisheriesetc. in the district

Category	**Population**	**Production**	**Productivity**
Cattle	417937	**94**	**87280164**
Crossbred/ Indigenous		……. MT.	…… kg
Buffalo	54713	……. MT.	……. Kg
Sheep	8945		
Crossbred/ Indigenous		…… MT wool	……. Kg
Goats	102089	……. MT	……. Kg
Pigs *Crossbred/ Indigenous*	1749	---	---
Rabbits			
Poultry			
Hens		……. Lakh eggs	…… eggs/ bird/yr
Turkey and others			
Category	**Area**	**Production**	**Productivity**
Fish	3680.75 (ha)	29450 Q	8.0 Q/ ha.

Livestock Resources in Bemetara District

Block	**Villages (Nos.)**	**Cattle**			**Buffalos**		
		M	**F**	**Total**	**M**	**F**	**Total**
Bemetara	196	33473	81907	115380	4974	11047	16021
Berla	138	24984	90889	105873	3989	13057	17046
Nawagarh	201	29476	61350	90826	4056	6755	10811
Saja	244	31147	74711	105858	4561	6274	10835
TOTAL	**779**	**119080**	**308857**	**417937**	**17580**	**37133**	**54713**

Block	**Villages (Nos.)**	**Sheep**			**Goat**			**Pig**		
		M	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**
Bemetara	196	421	1661	2082	13266	25060	38326	396	439	835
Berla	138	1701	3199	4900	4002	15910	20712	67	152	219
Nawagarh	201	403	877	1280	5109	14564	19673	72	90	162
Saja	244	161	522	683	7755	15623	23378	169	364	533
TOTAL	**779**	**2686**	**6259**	**8945**	**30132**	**71157**	**102089**	**704**	**1045**	**1749**

Fisheries Resources in Bemetara District

- Total Length of River (Shivnath& Other) = 31 KM
- Ponds & Reservoir –

Particular	Available		Fish Farming	
	Numbers	Area (Ha)	Numbers	Area (Ha)
Village Ponds	2530	6844	1619	2449.78
Irrigation Reservoir	115	1326	110	1230.97
TOTAL	**2645**	**8170**	**1729**	**3680.75**

- Average Fish Production in District – 29450 MT
- Fish Seed (Standard Fry) Production in Numbers : 362.11 Lath
  (Contribution from Govt Sector – 82.11 Lath & Private Sector – 280 Lath)
- Village Pond allotment in Lease – 294.78 Ha
- Total No. of Fisheries Cooperative Society – 78 with 2541 Member

DetailsofOperationalarea/Villages(2023)

Sl. No.	Subject	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Fisheries	Bemetara	Bemetara	Jhal, Jhalam, Andhiyarkhor,	Fish	Higher production cost	Fish Feed Management
	Fisheries	Saja	Saja	Thelka	Fish	Low Fish Production	Fish Production Technology
	Fisheries	Berla	Berla	Chikhla	Fish	Low Fish Production	Fish Production Technology
2	Agricultural Engineering	Saja	Saja	Kandai	Paddy	Crop Residue Management	Use of Baler machine
	Agricultural Engineering	Saja	Saja	Mohuabhata	Paddy	Conventional Manually Transplanting	Use of Mechanical Transplanter
	Agricultural Engineering	Bemetara	Bemetara	Dholiya	Soybean	Conventional flat bed sowing	Sowing with Borad Bed Furrow Machine
3	Soil Science	Bemetara	Bemetara	Navagaov	Soybean	Integrated nutrient management	Balance use of fertilizer
	Soil Science	Saja	Saja	Matra	Rice	Foliar application of fertilizer	Use of Nano Urea
4	Plant Protection	Bemetara	Bemetara	Bitkuli	Soybean	Fungal wilt disease management	Use of Wilt bioagents like Trichoderma, Pseudomonas, Bacillus
	Plant Protection	Nandghat	Nawagarh	Bhopsara	Chickpea	Fungal wilt disease management	Use of Wilt bioagents like Trichoderma, Pseudomonas, Bacillus
5	Horticulture	Nawagarh	Nawagarh	Tendubhatha, Mouhabhatha	Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
	Horticulture	Bemetara	Bemetara	Mouhabhatha	Tomato	Wilting	Use of tricoderma
	Horticulture	Bemetara	Bemetara	Bemetara	Vegetable seedling	Shortage of vegetable see	

Priority/Thrustareas

S. No.	Particulars
1.	Improved & high yielding varieties for rice, niger, sesamum, black gram, wheat, field pea & pigeon pea etc.
2.	Integrated Nutrient Management especially in potential crops i.e. Rice, Wheat, Maize, Mustard, Pigeon pea& field pea for increasing their productivity under acidic soils conditions.
3.	Integrated pest and disease management in cereals, pulse & oilseeds
4.	Integrated weed management in upland direct seeded rice, wheat, pulses, oil seeds, vegetables, maize and sugarcane
5.	Establishment of Integrated farming system model at marginal & small farmers for getting higher profitability & sustainability
6.	Development of fruit and vegetablebased land use system for increasing cropping intensity and profitability.
7.	Nutritional security for tribal's
8.	Value addition for income and employment generation
9.	Natural farming/organic farming
10.	Vegetable seedling production

TECHNICALPROGRAMME

A. DetailsoftargetedmandatoryactivitiesbyKVK

OFT		FLDandCFLD	
1		2	
NumberofOFTs	NumberofFarmers	NumberofFLDs	NumberofFarmers
10	44	FLD –12& CFLD -10	FLD 87 & CFLD 250

Training		ExtensionActivities	
3		4	
NumberofCourses	NumberofParticipants	Numberofactivities	Numberofparticipants
62	1715	188	4483

SeedProduction(Qtl.)	Plantingmaterial(Nos.)
178	916500

Action Plan 2024

Name	Designation & Discipline	OFT	FLD	Farmer Training	In-service training
Shri Toshan Kumar Thakur	SMS (Fisheries)	2	2	12	1
Dr. Jitendra Kumar Joshi	SMS (FMPE)	2	4	14	2
Dr. Lav Kumar Sahu	SMS (Horticulture)	2	2	13	2
Dr. (Smt.) Tripti Thakur	SMS (Soil Science)	2	2	13	1
Dr. Akhilesh Kulmitra		2	2	10	1
	TOTAL	**10**	**12**	**62**	**7**

B.Abstracttointerventionstobeundertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title e of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Fisheries	Fish	Hi cost of fish production, Low fish production, Low yield from carp culture due to less growth during winter	Assessment of Pangasius Fish Farming in bio-floc fish tank	Demonstration on inclusion of exotic carp with IMC in composite fish farming system	Common Fish Disease Management	Common Fish Disease Management Water quality management of Fish Pond Natural Fish Food Management Fish Feed Management Technology Preparation of Farm Made Fish Feed Fish Seed Production in Seasonal Pond	06	
2	Fisheries	Fish	Low yield from carp culture due to less growth during winter	Assessment of growth promoter 'Raafres- AQ' inmaximizing fish growth and yield during winter	Demonstration on Vitamin & Mineral Premix with Traditional Fish Feed for Increasing Fish Yield	Natural Fish Food Management	Composite Fish Farming Technology Advance Fish Production Technology Semi biofloc&Biofloc Fish Farming Community Fish Pond Management Integrated Fish Farming Technology Processing & Value addition of Fish	07	
3	Ag. Engg.	Paddy/Soybean	Risk on single crop due to weather effects.	Assessment of soybean-pigeonpea intercropping by using broadbed sowing machine on farmer's field	Demonstration on broad bed sowing method using of Indira soya seed drill for soybean crop Demonstration on four row paddy transplanter on farmer's field	Operational Procedure of Sowing machines	Integrated Sowing Practices for Intercropping Demonstration of Multicrop Planter machine Mat Type Nursery Preparation, Mechanical Transplating of Rice by Mechanical Transplanter Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Entrepreneurial development of farmers/youths Capacity building for ICT application Farm machinery, tools and	15	

							implements		
4	Ag. Engg.	Mustard /Paddy	More seed rate in broadcasting, seed to seed distance is not maintained	Assessment of Multi-crop Inclined Plate Planter machine for sowing of Mustard crop on farmer's field	Demonstration on tractor operated round baler machine Demonstration of drone technology on farmer's field.	Uses and operational procedure of Baler machine under crop residue Management, hands on training on Drone Technology	Baler Machine Uses and Repair and Adjustment Inclined Plate Planter seed metering System Drone Demonstration Farm machinery &its maintenance Balance Use of fertilizer Processing and value addition Nursery Management Small scale processing and value addition Post Harvest Technology Formation and Management of SHGs	15	
5	Integrated Nutrient Management	Rice	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency	Assessment of Foliar application of Nano Urea in Rice	Demonstration of Integrated nutrient management in Soybean.	Field preparation, sowing and fertilizer management of Kharif crops (b) Nursery management in Rice and DSR © Seed Treatment (d) Natural farming in Kodo	(a)Harvesting and storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming d) Importance of millets (a)Soil sampling methods (b) Importance of deep summer ploughing (c) Irrigation Management in summer crops (d) Natural farming	13	
6	Integrated Nutrient Management	Chick pea	Yield loss due to imbalance use of fertilizer	Assessment of Integrated Nutrient Management in Chickpea	Demonstration of package of practices of natural farming in Chickpea		(a) Nutrient Management (b) Chickpea nutrient requirement (c) Indiscrimination use of chemical fertilizers impact on crop (d) Natural farming	13	
7	Natural Farming	Tomato	Soil deterioration due to excess use of chemicals	Assessment of Different tools of Natural Farming in Tomato in Bemetara District	Demonstration of propagation of ginger planting materials through pro-tray		Use of beejamrita in cucurbitaceous vegetable crops Curing process in turmeric rhizome	10	
8	Plant Pathology	Rice/soy bean	Sheath blight of rice caused by Rhizoctonia solani is a potential threat to rice cultivation causing extensive damage to the crop in almost all the rice growing areas of India. Yield losses due to this disease are estimated to be ranging from 1.2-69.0%	Assessment of application of bio-agents for management of sheath blight in rice	Demonstration of fungal wilt management in Soybean through Trichoderma application		*Trichoderma harzianum+Pseudomonas fluorescens* Seed and *Trichoderma* Integrated Pest Management in major Rabi Crops Preparation of organic insecticides Use of beejamrita in cucurbitaceous vegetable crops Integrated Pest Management in major horticulture Crops	10	
9	Plant Pathol	Rice/Chickpea	Low yield due to Blast disease affecting crop yield from 20 to	Assessment of Blast disease management in Rice	Demonstration of efficacy of bio-agents for wilt disease management in		*Integrated Pest Management in major kharif Crops* *Integrated Pest Management in major horticulture Crops*	10	

	y		80%		chickpea		*Preparation of organic insecticides Multiplication of Trichoderma*		
10	Varietal Assessment	Tomato	Use local seed of tomato (Local collection	Varietal assessment of Tomato (Kashi Aman) in Bemetara District	Demonstration of propagation of ginger planting materials through pro-tray		Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops	12	
11	Varietal Assessment	Coriander	Low yield of local varieties/ Local collection	Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District	Demonstration of propagation of turmeric planting materials through pro-tray		Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops	12	

Technologiestobeassessed

A. Abstractonthenumberoftechnologiestobeassessedinrespectofcrops

Thematic areas	**Cereals**	**Oilseeds**	**Pulses**	**Commercial Crops**	**Vegetables**	**Fruits**	**Flower**	**Plantation crops**	**Tuber Crops**	**TOTAL**
Plant Protection	2	1	1	-	1	-	-	-	-	**4**
INM	1	1	2	-	-	-	-	-	-	**4**
Horticulture	-	-	-	-	2	-	-	-	2	**4**
Agril. Engineering	2	1	2	-	-	-	-	-	-	**5**
TOTAL	4	4	7	-	8	-	-	-	-	**17**

Thematic areas	**Cattle**	**Poultry**	**Buffalo**	**Sheep**	**Goat**	**Piggery**	**Rabbitary**	**Fisheries**	**TOTAL**
Bemetara	115380	-	16021	2082	38326	835	-	4	**4**
Berla	105873		17046	4900	20712	219	-		
Nawagarh	90826		10811	1280	19673	162	-		
Saja	105858		10835	683	23378	533	-		
TOTAL	**417937**	**-**	**54713**	**8945**	**102089**	**1749**	**-**	**4**	**4**

DetailsofOnFarmTrial(OFT)

OFT 1: Assessment of Pangasius Fish Farming in bio-floc fish tank	
Crop/Enterprise	Fish
Problemdiagnosed	Hi cost of fish production, Low fish productivity
Farmingsituation	Small to medium tank
Production system and thematicarea	Super Intensive Fish Production Technology
Farmers'practices	Pangasius Fish Farming in Fish Pond
Details of technologies selected forassessment/refinementTreatments	T1 – Stoking Density of Pangasius Fish Seed (Fingerlings) @ 5 Nos/M3 (Farmer practice) T2 - Stoking Density of Pangasius Fish Seed (100g) @ 25Nos./M3, T3 - @ 70 Nos./M3 (Research Practice)
Sourceoftechnology	IGKV, KVK, Raipur
No.offarmers	04
Area of each trial	1 tank
No of trial	04
Criticalinput	Fish Seed/Probiotics/Molases

Performance indicatorsObservationtoberecorded	Yield, ABW, Survival, FCR, B:C ratio
Costofinput	Rs. 5000/- Per trial (Approx.)
Totalcost	Rs. 20000/-

OFT 2 :Assessment of growth promoter in maximizing fish growth and yield during winter	
Crop/Enterprise	Fish
Problemdiagnosed	Low yield from carp culture due to less growth during winter
Farmingsituation	Small to Medium pond
Production system and thematicarea	Fish Production & Fish Pond Management
Farmers'practices	Application of traditional feed only for fish body growth
Details of technologies selected forassessment/refinementTreatments	T1: No use of growth promoter in fish feed (Farmer Practice) T2 : Use of Growth promoter (Raafres AQ @500g/1ton of feed as feed additive
Sourceoftechnology	CIFE, Mumbai (2000), Fishery Technology, Vol. 47, No (2) : 2010
No.offarmers	04
Area of each trial	0.2 ha
No of trial	04
Criticalinput	Growth promoter
Performance indicatorsObservationtoberecorded	ABW, FCR, Yield, B:C ratio
Costofinput	Rs. 4000/- per trial (Approx.)
Totalcost	Rs. 16000/-

OFT 3 :Assessment of Sowing Method of Mustard by Multi-crop Inclined Plate Planter	
Crop/Enterprise	Mustard crop
Problemdiagnosed	More seed rate in broadcasting, seed to seed distance is not maintained.
Farmingsituation	Irrigated
Production system and thematicarea	Use of Improved farm Implements
Farmers'practices	Broadcasting
Details of technologies selected forassessment/refinementTreatments	T1 Broadcasting sowing T2 multi-crop inclined plate planter machine T3 SCFD sowing
Sourceoftechnology	IGKV Raipur
No.offarmers	5
Area of each trial	1 acre
No of trial	5
Criticalinput	Multi-crop Inclined Plate Planter machine
Performance indicatorsObservationtoberecorded	Field capacity (ha/h) , fuel consumption (l/ha), cost economic field efficiency %, crop yield (kg/ha)
Costofinput, Rs	Rs. 800/- Per trial
Totalcost, Rs	Rs. 4000/-

OFT 4 :Assessment of soybean-pigeonpea intercropping by using broadbed sowing machine	
Crop/Enterprise	Soybean-pigeonpea
Problemdiagnosed	Risk of failure of single crop due to weather effects.
Farmingsituation	Rainfed
Production system and thematicarea	Agricultural Engineering /Farm Mechanization
Farmers'practices	Line sowing of soybean by Seed drill
Details of technologies selected forassessment/refinementTreatments	T1 flat bed line sowing T2 Broadbed sowing only soybean T3 soybean-Pigeonpea Intercropping Sowing

Sourceoftechnology	IGKV Raipur
No.offarmers	5
Area of each trial	1 acre
No of trial	5
Criticalinput	Soybean-pigeonpea intercropping broadbed sowing machine
Performance indicatorsObservationtoberecorded	Plant mortality %, Field capacity (ha/h) , fuel consumption (l/ha), cost economic field efficiency %, crop yield (kg/ha)
Costofinput, Rs	Rs. 800/- Per Trial
Totalcost, Rs	Rs. 4000/-

OFT 5 : Assessment of Rice Productivity by foliar spray of Nano Urea	
Crop/Enterprise	Rice
Problem diagnosed	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency
Production system and thematic area	Nutrient management through foliar application
Farmers' practices	Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha, no use of foliar spray
Details of technologies selected for assessment/refinement Treatments	T1- Imbalance fertilizer application (farmer practice) T2- 1st Spray as foliar application of Nano urea @4 ml/litre of water after 30-35 DAS/DAT and 2nd Spray at 50-55 DAS/DAT
Source of technology	SG CARS, Jagdalpur
No. of farmers	4
Area of each trial	0.2 ha
No of trial	4
Critical input	Seed, Nano urea liquid fertilizer
Performance indicators	No. of tillers/plant, Yield (q/h) & B:C ratio
Cost of input	Rs. 880/- (Seed - 400/-, Nano urea liquid fertilizer- 480/-) Per trial
Total cost	Rs. 3520/-

OFT 6 :Assessment of Integrated Nutrient Management in Chickpea	
Crop/Enterprise	Chickpea
Problem diagnosed	Yield loss due to imbalance use of fertilizer
Production system and thematic area	Integrated nutrient management
Farmers' practices	DAP- 80 kg and Urea- 50 kg.
Details of technologies selected for assessment/refinement Treatments	T1 :DAP- 80 kg and Urea- 50 kg. (Farmer Practice) T2 :Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed T3 :75% RDF (NPK 20:40:20) + seed treatment Rizobium+PSB @10 gm/kg. of seed
Source of technology	IGKV, Raipur
No. of farmers	4
Area of each trial	0.40 ha
No of trial	4
Critical input	Fertilizer, Bio-fertilizer
Performance indicators	No. of pod/plant, Yield q/ha, B:C ratio
Cost of input	Rs. 2000/- Per trial
Total cost	Rs. 8000/-

OFT 7: Assessment of sheath blight management in rice through bio-agents	
Crop/Enterprise	Rice
Problemdiagnosed	**Sheath blight of rice** caused by *Rhizoctonia solani*is a potential threat

	to rice cultivation **causing extensive damage to the crop** in almost all the rice growing areas of India. **Yield losses** due to this disease are estimated to be ranging **from 1.2-69.0%**
Farmingsituation	Rainfed (Kharif -2024)
Production system and thematicarea	Integrated Disease Management
Farmers'practices	(T1) Mixed formulation and injudicious useof chemical fungicides.
Details of technologies selected forassessment/refinementTreatments	T2 - Soil application of *Trichoderma harzianum+Pseudomonas fluorescens*+ FYM T3 - Soil application of *Trichoderma harzianum+Pseudomonas fluorescens* + FYM followed by foliar spray of ZnSO4 + Lime at Maximum Tillering Stage
Sourceoftechnology	Prasad, Durga and Singh, Ramji (2018). Management of sheath blight of rice through integrated application of bio-agents, organic amendments and resistance inducing chemicals. *Internat. J. Plant Sci*., 13 (1): 42-46
No.offarmers	05
Area of each trial	0.4 ha
No of trial	05
Criticalinput	*Trichoderma harzianum+Pseudomonas fluorescens*
Performance indicatorsObservationtoberecorded	Per cent disease index (PDI), Per cent yield increase, B:C ratio
Costofinput	Rs, 3000/- Per trial
Totalcost	Rs. 15000/-

OFT 8 :Assessment of Blast disease management in Rice through Bio-agent	
Crop / Enterprise	Rice
Problem diagnosed	Low yield due to Blast disease affecting crop yield from 20 to 80%
Farming situation	Rainfed/irrigated
Production system and thematic area	Disease management
Farmers' practices	(T1) Use of Fungicide - Tebuconazole 50%+Trifloxystorbin 25% @ 1g/lit of water
Details of technology selected for assessment/refinement Treatments	(T2) Seed treatment by Trichoderma @ 4g/kg seed
Source of technology	IGKV, Raipur
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
Critical input	Trichoderma
Performance indicators Observation to be recorded	Disease severity, Yield (q/ha), B:C ratio
Cost of input	Rs.1000/- Per trial
Total Cost	Rs. 5000/-

OFT 9 :Varietal assessment of Shri ChandrahasiniChhattisgarh Dhania -2 in Bemetara District	
Crop/Enterprise	Coriander
Problemdiagnosed	Low yield of local/Desi/Unlnown varieties, area covered >1200ha
Farmingsituation	Rabi (Irrigated)
Production system and thematicarea	Varietal evaluation
Farmers'practices	Use of local variety
Details of technologies selected forassessment/refinementTreatments	T1 – Farmer Practice, Use of Desi variety, Potential yield 7-8 qtl./ha, Duration 115-120 day T2 – Use of High yielding variety Shri Chandrahasini Chhattisgarh Dhania -2 Duration – 110 day, Potential yield 12-15 qtl./ha

Sourceoftechnology	IGKV, Raipur (C.G.)
No.offarmers	04
Area of each trial	0.4 ha
No of trial	04
No.ofanimals (if animals are part of OFT)	-
Criticalinput	Coriander((Shri Chandrahasini Chhattisgarh Dhania -2) seed
Performance indicatorsObservationtoberecorded	1. Yield (q/ha), 2. B: C ratio
Costofinput	Rs. 1000/- per trial. (Approx.)

OFT 10 :Varietal assessment of Kashi Aman (Tomato) in Bemetara District	
Crop/ Enterprise	Tomato (Kashi Aman)
Problemdiagnosed	Low yield of old varieties, Area covered >1000 ha
Farmingsituation	Kharif (Rainfed/Irrigated)
Production system and thematicarea	Varietal evaluation
Farmers'practices	Use Local seed of tomato (Local collection)
Details of technologies selected forassessment/refinementTreatments	T1 – Farmer Practice (Use of old variety – Pusa rubi (Notified in year 1985), Potential yield 300-350 qtl./ha T2 - Use of High yielding variety - Kashi Aman (Notified in 2018) Potential yield 500-600qtl./ha
Sourceoftechnology	Indian Institute of Vegetable Research (IIVR), Varanasi
No.offarmers	04
Area of each trial	0.4 ha
No of trial	04
No.ofanimals (if animals are part of OFT)	-
Criticalinput	Tomato (Kashi Aman) seed
Performance indicatorsObservationtoberecorded	1. Yield (q/ha), 2. B: C ratio
Costofinput	Rs. 1000/- per trial. (Approx.)

Detailed Information about OFT: 1-10

OFT-1

Name of Discipline	**Shri Toshan Kumar Thakur (Fisheries)**
Title of on-farm trial:	**Assessment of Pangasius Fish Farming in bio-floc fish tank**
Year/Season:	2024-25
Farming situation:	Small to medium tank
Problem diagnosis:	Hi cost of fish production, Low fish productivity
Thematic area:	Intensive Fish Production Technology
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Stoking Density of Pangasius Fish Seed (Fingerlings) @ 5 Nos/M3 (Farmer practice)
T2 –Recommended Practice-	T2 - Stoking Density of Pangasius Fish Seed (100g) @ 25Nos./M3, T3 - @ 70 Nos./M3 (Research Practice)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, KVK, Raipur
Characteristics of technology:	-

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

OFT-2

Name of Discipline	**Shri Toshan Kumar Thakur (Fisheries)**
Title of on-farm trial:	**Assessment of growth promoter in maximizing fish growth and yield during winter**
Year/Season:	2024-25
Farming situation:	Small to Medium pond
Problem diagnosis:	Low yield from carp culture due to less growth during winter
Thematic area:	Fish Production & Fish Pond Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: No use of growth promoter in fish feed (Farmer Practice)
T2 –Recommended Practice-	T2 : Use of Growth promoter (Raafres AQ @500g/1ton of feed as feed additive
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFE, Mumbai (2000), Fishery Technology, Vol. 47, No (2) : 2010
Characteristics of technology:	-
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Name of Discipline	**Dr. Jitendra Kumar Joshi (**Agricultural Engineering)
Title of on-farm trial:	**Assessment of Sowing Method of Mustard by Multi-crop Inclined Plate Planter**
Year/Season:	2024-25
Farming situation:	Irrigated
Problem diagnosis:	More seed rate in broadcasting, seed to seed distance is not maintained.
Thematic area:	
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 Broadcasting sowing
T2 –Recommended Practice-	T2 multi-crop inclined plate planter machine
T3- Recommended Practice-	T3 SCFD sowing
Date of sowing:	-

Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Mustard crop
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Name of Discipline	**Dr. Jitendra Kumar Joshi (**Agricultural Engineering)
Title of on-farm trial:	**Assessment of soybean-pigeonpea intercropping by using broadbed sowing machine**
Year/Season:	2024-25
Farming situation:	Rainfed
Problem diagnosis:	Risk of failure of single crop due to weather effects.
Thematic area:	
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 flat bed line sowing
T2 –Recommended Practice-	T2 Broadbed sowing only soybean
T3- Recommended Practice-	T3 soybean-Pigeonpea Intercropping Sowing
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean-pigeonpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Name of Discipline	**Dr. Tripti Thakur (Soil Science**)
Title of on-farm trial:	**Assessment of Rice Productivity by foliar spray of Nano Urea**
Year/Season:	2024-25
Farming situation:	
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:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	T1- Imbalance fertilizer application (farmer practice)
T2 –Recommended Practice-	T2- 1st Spray as foliar application of Nano urea @4

	ml/litre of water after 30-35 DAS/DAT and 2nd 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:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6

Name of Discipline	**Dr. Tripti Thakur (Soil Science**)
Title of on-farm trial:	**Assessment of Integrated Nutrient Management in Chickpea**
Year/Season:	2024-25
Farming situation:	Rainfed
Problem diagnosis:	Yield loss due to imbalance use of fertilizer
Thematic area:	Integrated nutrient 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 :DAP- 80 kg and Urea- 50 kg. (Farmer Practice)
T2 –Recommended Practice-	T2 :Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed
T3- Recommended Practice-	T3 :75% RDF (NPK 20:40:20) + seed treatment Rizobium+PSB @10 gm/kg. of seed
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	-

OFT-7

Name of Discipline	**Dr. Akhilesh Kulmitra (Plant Pathology**)
Title of on-farm trial:	**Assessment of sheath blight management in rice through bio-agents**
Year/Season:	2024-25
Farming situation:	Rainfed (Kharif -2024)
Problem diagnosis:	**Sheath blight of rice** caused by *Rhizoctonia solani*is a potential threat to rice cultivation **causing extensive damage to the crop** in almost all the rice growing areas of India. **Yield losses** due to this disease are estimated to

	be ranging **from 1.2-69.0%**
Thematic area:	Integrated Disease Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	(T1) Mixed formulation and injudicious useof chemical fungicides.
T2 –Recommended Practice-	T2 - Soil application of *Trichoderma harzianum+Pseudomonas fluorescens*+ FYM
T3- Recommended Practice-	T3 - Soil application of *Trichoderma harzianum+Pseudomonas fluorescens* + FYM followed by foliar spray of ZnSO4 + Lime at Maximum Tillering Stage
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-8

Name of Discipline	**Dr. Akhilesh Kulmitra (Plant Pathology**)
Title of on-farm trial:	**Assessment of Blast disease management in Rice through Bio-agent**
Year/Season:	2024-25
Farming situation:	Rainfed/irrigated
Problem diagnosis:	Low yield due to Blast disease affecting crop yield from 20 to 80%
Thematic area:	Disease management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	(T1) Use of Fungicide - Tebuconazole 50%+Trifloxystorbin 25% @ 1g/lit of water
T2 –Recommended Practice-	(T2) Seed treatment by Trichoderma @ 4g/kg seed
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9

Name of Discipline	**Dr. Luv Kumar (Horticulture)**
Title of on-farm trial:	**Varietal assessment of Shri Chandrahasini Chhattisgarh Dhania -2 in Bemetara District**
Year/Season:	2024-25
Farming situation:	Rabi (Irrigated)
Problem diagnosis:	Low yield of local/Desi/Unlnown varieties, area covered >1200ha
Thematic area:	Varietal evaluation
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 – Farmer Practice, Use of Desi variety, Potential yield 7-8 qtl./ha, Duration 115-120 day
T2 –Recommended Practice-	T2 – Use of High yielding variety Shri Chandrahasini Chhattisgarh Dhania -2
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Name of Discipline	**Dr. Luv Kumar (Horticulture)**
Title of on-farm trial:	**Varietal assessment of Kashi Aman (Tomato) in Bemetara District**
Year/Season:	2024-25
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Low yield of old varieties, Area covered >1000 ha
Thematic area:	Varietal evaluation
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 – Farmer Practice (Use of old variety – Pusa rubi (Notified in year 1985), Potential yield 300-350 qtl./ha
T2 –Recommended Practice-	T2 - Use of High yielding variety - Kashi Aman (Notified in 2018) Potential yield 500-600qtl./ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato (Kashi Aman)

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

FLD 1-12

FLD 1 :Demonstration on inclusion of exotic carp in composite fish farming system	
Crop / Enterprize	Fish
Thematic area	Fish Production
Technology for demonstration	Composite fish farming
Critical inputs	Fish Seed
Season and year	2024-25
Area (ha)	2 ha
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration : Culture Exotic carp with IMC with 40:30:30 ratio of SF, CF & BF Fish)
	Local Check/ Farmer Practice: Culture IMC only in composite fish farming in irregular ratio.
Parameters identified	ABW, Yield, B:C ratio
Cost of input	Rs. 5000/- Per Trial (Approx.)
Total cost	Rs. 25000/-
Extension and Training activities under FLDs	02

FLD 2 :Demonstration on Traditional Fish Feed with Vitamin & Mineral Premix for Increasing Fish Yield	
Crop/Enterprize	Fish
Thematic area	Fish Pond Management
Technology for demonstration	Fish feed Management
Critical inputs	Vitamin and Mineral Premix
Season and year	2023-24
Area (ha)	2 ha
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration : Feeding fish feed mix with vitamin mineral mix @ 0. 1% /kg Fish Feed
	Local Check/ Farmer Practice: Use of conventional fish feed only
Parameters identified	ABW, Yield, B:C ratio
Cost of input	Rs. 2000/- Per demo. (Approx.)
Total cost	Rs. 10000/-
Extension and Training activities under FLDs	02

FLD 3 :Demonstration on four row paddy transplanteron farmer's field.	
Crop	Rice
Thematic area	Farm Mechanization
Problem Diagnose	labour shortage, and high initial cost incurred in manual transplanting
Technology for demonstration	Resources conservation technology
Critical inputs	Four row paddy transplanter
Season and year	*Kharif* season, 2024
Area (ha)	4
No. of farmers/ demonstration	6

Data on parameter in relation to technology demonstrated	Demonstration (T1): Transplanting by Four row paddy transplanter machine
	Local Check/ Farmer Practice (T2): Manual Transplanting
Parameters identified	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)
Cost of input, Rs/acre	800/-
Total cost, Rs	8000/-
Extension and Training activities under FLDs	Role of farm mechanization in Paddy Cultivation Mahindra Four row paddy transplanter machine setting and adjustment

FLD 4 :Demonstration on broad bed sowing method using of Indira soya seed drill for soybean crop	
Crop	Soybean
Thematic area	Farm Mechanization
Technology for demonstration	Resources Conservation Technology
Critical inputs	Indira soya seed drill machine
Season and year	*Kharif* season, 2024
Area (ha)	4
No. of farmers/ demonstration	7
Data on parameter in relation to technology demonstrated	Demonstration (T1): Broad bed sowing using of Indira soya seed drill
	Local Check/ Farmer Practice (T2): Flat bed line sowing
Parameters identified	Plant mortality %, Field capacity, Fuel consumption, Cost economic, Field efficiency %, Crop yield
Cost of input, Rs/acre	700/-
Total cost, Rs	7000/-
Extension and Training activities under FLDs	Broadbed sowing method for reducing the mortality of crop due to heavy rainfall Indira soya seed drill machine setting and adjustment.

FLD 5 :Demonstration on tractor operated round baler machine	
Crop	Paddy
Thematic area	Agricultural Engineering
Technology for demonstration	Paddy Straw Management
Critical inputs	Tractor operated round baler machine
Season and year	*Rabi* season, 2024-25
Area (ha)	4
No. of farmers/ demonstration	8
Data on parameter in relation to technology demonstrated	Demonstration (T1): Bale making through Tractor operated Baler machine
	Local Check/ Farmer Practice (T2): Burn/Manually lifting
Parameters identified	Field capacity, field efficiency, bale output (kg/h), bale weight (kg), time required (h/ha), fuel consumption lit/h, cost of cultivation Rs/ha, straw recovery (%) , labour requirement (man-h/ha)
Cost of input, Rs/acre	700/-
Total cost, Rs/-	7000/-
Extension and Training activities under FLDs	Paddy straw management techniques, Tractor operated round baler machine setting and adjustment.

FLD 6 :Demonstration of drone technology on farmer's field.	
Crop	Chickpea
Thematic area	Precision Agriculture

Technology for demonstration	Resources conservation technology
Critical inputs	Drone machine
Season and year	*Rabi* season, 2024-25
Area (ha)	4
No. of farmers/ demonstration	6
Data on parameter in relation to technology demonstrated	Demonstration (T1) :Spraying by Drone
	Local Check/ Farmer Practice (T2): Knapsack spraying manually
Parameters identified	Field capacity (ha/hr),Spraying efficiency (%), field efficiency (%), labour cost, cost economic, Grain yield (q/ha), B:C ratio
Cost of input, Rs/acre	600/-
Total cost, Rs	6000/-
Extension and Training activities under FLDs	02

FLD 7 :Demonstration on Integrated nutrient management in Soybean.	
Crop	Soybean
Thematic area	Integrated Nutrient management
Technology for demonstration	Demonstration of Integrated nutrient management of Soybean.
Critical inputs	Bio-fertilizer
Season and year	Kharif 2024-25
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Farmer Practice: DAP- 50 kg, Urea- 50 kg, Potash- 0 kg
	Demonstration- (NPK)+ vermi-compost (20q/ha) + seed treatment Rhizobium@10 gm./kg. of seed
Parameters identified	Yield q/ha, B:C Ratio
Cost of input	Rs. 1200/- Per demo.
Total cost	Rs. 12000/-
Extension and Training activities under FLDs	02

FLD 8 :Demonstration of Chickpea under natural farming	
Crop	Chickpea
Thematic area	Natural Farming
Technology for demonstration	Demonstration of package of practices of natural farming in Chickpea
Critical inputs	Different ingredients use in natural farming (cow urine, cow dung, jaggery etc.)
Season and year	Rabi 2024-25
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration- 1.Seed treatment with Bijamreet2.Ghanjeevamrit@250kg/ha. at sowing time 3.Jivamreet at irrigation time or spraying of jivamreet @ 500 ltr/ ha 4. Mulching of crop residues & foliar spray of Nimastra&Bramhastra
	Local Check/ Farmer Practice: Broadcast of Chickpea & imbalance use of fertilizer
Parameters identified	No. of pod / plant, no. of branch /plant, Yield, BC ratio
Cost of input	Rs. 1500/- Per demo
Total cost	Rs. 15000/-
Extension and Training activities under FLDs	training, group meeting, awareness programme, field day

FLD 9 :Demonstration on wilt disease management in chickpea through bio-agents	
Crop	Chickpea
Thematic area	Plant protection
Technology for demonstration	Seed treated with *Trichoderma harzianum @ 5g/kg* seed + *Pseudomonas fluorescens @ 5 g/kg seed + Bacilus subtilis @5g/kg seed.*
Critical inputs	*Trichoderma harzianum+Pseudomonas fluorescens + Bacilus subtilis*
Season and year	Rabi 2024-25
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration - Seed treated with *Trichoderma harzianum @ 5g/kg* seed + *Pseudomonas fluorescens @ 5 g/kg seed + Bacilus subtilis @5g/kg seed.*
	Local Check/ Farmer Practice: - No seed treatment through any bioagents.
Parameters identified	Disease Incidence (%), Per cent yield increase
Cost of input	Rs.1000/- Per demo.
Total cost	Rs.10000/-
Extension and Training activities under FLDs	02

FLD 10 :Demonstration of fungal wilt management in Soybean through *Trichoderma* application	
Crop	Soybean
Thematic area	Crop Protection
Technology for demonstration	Demonstration of fungal wilt management in Soybean through *Trichoderma* application
Critical inputs	Seed and Trichoderma
Season and year	Kharif Season 2024
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Seed treatment by Trichoderma @5gm/kg seed and soil treatment along with FYM @250 kg/ha+1 kg Trichoderma
	Local Check/ Farmer Practice: - No Seed treatment
Parameters identified	1. Yield (q/ha) 2. B:C Ratio
Cost of input	Rs. 1000/- Per demo
Total cost	Rs. 10000/-
Extension and Training activities under FLDs	02

FLD 11 :Demonstration of propagation of ginger planting materials through pro-tray	
Crop	Ginger
Thematic area	Crop Production
Technology for demonstration	Raising of ginger seedlings in protray methods
Critical inputs	Seedlings
Season and year	Kharif 2024
Area (ha)	02
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration: Ginger bud sprouts in protray with nursery medium cocopeat & vermicompost (3:1) • Seed rhizomes are cut into single buds with small piece of rhizomes weight 6-8 gm.

	• Treatment of bud sprouts (mancozeb @0.3%) for 30 min before planting • Seedling will be ready within 30-40 days for planting
	Local Check/ Farmer Practice: Conventional planting
Parameters identified	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
Cost of input	Rs. 500/- Per Demo. (Approx.)
Total cost	Rs. 2500/-
Extension and Training activities under FLDs	02

FLD 12 :Demonstration of propagation of turmeric planting materials through pro-tray	
Crop	Turmeric
Thematic area	Crop Production
Technology for demonstration	Raising of turmeric seedlings in protray methods
Critical inputs	Seedlings
Season and year	Kharif 2024
Area (ha)	02
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration: Turmeric bud sprouts in protray with nursery medium cocopeat & vermicompost (3:1) • Seed rhizomes are cut into single buds with small piece of rhizomes weight 6-8 gm. • Treatment of bud sprouts (mancozeb @0.3%) for 30 min before planting • Seedling will be ready within 30-40 days for planting
	Local Check/ Farmer Practice: Conventional planting
Parameters identified	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
Cost of input	Rs. 500/- Per Demo. (Approx.)
Total cost	Rs. 2500/-
Extension and Training activities under FLDs	02

Information about Extension OFT: Nil

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: Nil

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and 26ortra 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	

FrontlineDemonstrations

DetailsofFLDstobeorganized(Basedonsoiltestanalysis)

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	Fish	Fish Production	Composite fish farming	Fish Seed	2024-25	2	05	ABW, Yield, B:C ratio
2	Fish	Fish Pond Management	Fish feed Management	Vitamin and Mineral Premix	2024-25	2	05	ABW, Yield, B:C ratio
3.	Rice	Farm Mechanization	Resources conservation technology	Four row paddy transplanter	*Kharif* season, 2024	4	06	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)
4.	Soybean	Farm Mechanization	Resources Conservation Technology	Indira soya seed drill machine	*Kharif* season, 2024	4	07	Plant mortality %, Field capacity, Fuel consumption, Cost economic, Field efficiency %, Crop yield
5.	Paddy	Agricultural Engineering	Paddy Straw Management	Tractor operated round baler machine	*Rabi* season, 2024-25	4	08	Field capacity, field efficiency, bale output (kg/h), bale weight (kg), time required (h/ha), fuel consumption lit/h, cost of cultivation Rs/ha, straw recovery (%) , labour requirement (man-h/ha)
6.	Chickpea	Precision Agriculture	Resources conservation technology	Drone machine	*Rabi* season, 2024-25	4	06	Field capacity (ha/hr),Spraying efficiency (%), field efficiency (%), labour cost, cost economic, Grain yield (q/ha), B:C ratio
7.	Soybean	Integrated Nutrient management	Demonstration of Integrated nutrient management of Soybean	Bio-fertilizer	Kharif 2024-25	4	10	Yield q/ha, B:C Ratio
8.	Chickpea	Natural Farming	Demonstration of package of practices of natural farming in Chickpea	Different ingredients use in natural farming (cow urine, cow dung, jaggery etc.)	*Rabi* season, 2024-25	4	10	No. of pod / plant, no. of branch /plant, Yield, BC ratio
9.	Chickpea	Plant protection	Seed treated with *Trichoderma harzianum @ 5g/kg* seed + *Pseudomonas*	*Trichoderma harzianum+Pseudomonas fluorescens + Bacilus subtilis*	*Rabi* season, 2024-25	4	10	Disease Incidence (%), Per cent yield increase

			fluorescens @ 5 g/kg seed + Bacilus subtilis @5g/kg seed.					
10.	Soybean	Crop Protection	Demonstration of fungal wilt management in Soybean through *Trichoderma* application	Seed and Trichoderma	Kharif Season 2024	4	10	1. Yield (q/ha) 2. B:C Ratio
11.	Ginger	Crop Production	Raising of ginger seedlings in protray methods	Seedlings	Kharif 2024	2	5	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
12.	Turmeric	Crop Production	Raising of turmeric seedlings in protray methods	Seedlings	Kharif 2024	2	5	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio

ExtensionandTrainingactivitiesunderFLDs

S. No.	Activity	No. of Activities	Month	Number of participants
1	Field Days	8	July, September, November, December	140
2	Farmers Training	12	January to December	340
3	Media coverage	5	July, November, January	100
4	Training for extension functionaries	6	July, September, November, December	150

DetailsofFLDonEnterprises

FarmImplements:

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Multicrop Inclined plate planter	Mustard, Chickpea	2024	**10**	**8**	Inclined plate planter machine	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)	1	Seed cum fertilizer drill
Baler Machine	Paddy straw	2024	**4**	**4**	Baler Machine	Field capacity, field efficiency, bale output (kg/h), bale weight (kg), time required (h/ha), fuel consumption lit/h, cost of cultivation Rs/ha, straw recovery (%) , labour requirement (man-h/ha)	1	Manually lifting of straw
Paddy mechanical transplanter	Paddy	2024	**5**	**4**	Four Row Paddy Transplanter	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)	1	Manually Transplanting

**Fieldefficiency, laboursavingetc.*

LivestockEnterprises- Nil

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

**Milkproduction,meatproduction,eggproduction,reductionindiseaseincidenceetc.*

OtherEnterprises- Nil

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

ExtensionandTrainingactivitiesunderCFLDsOilseedandPulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	June, July, August, September, November, January	280
2	Farmers Training	20	June, July, August, September, November, January	460
3	Media coverage	6	June, July, August, September, November	180
4	Training for extension functionaries	4	July, December	80

Extension Activities & Awareness programmes to be conducted by KVK in 2024

Details of Extension Activity	No. of Activities	Expected No of farmers	Expected No of extension functionaries
Scientist visit to farmer's filed	10	20	04
Diagnostic visit to farmer's field	24	76	30
Method demonstration	04	10	04
Exposure visit	02	14	02
SHG's convener meeting	02	250	02
Field visit of farmer's field under CFLD, OFT and FLD	16	200	16
Exhibitions and Kisan mela	2	500	2
Field day	16	200	16
Technology Week Celebration	2	50	2
Lectures delivered as resource persons	20	500	20
Awareness Programme	20	450	50
Radio talk	5	100	15
Workshop	16	200	16
Method Demonstrations	2	50	2
Newspaper coverage	20	500	20
Popular articles	2	500	2
Film show	20	500	50
Special day celebration	5	100	10

Trainings Programmes to be conducted in Year 2024

SN	Thematic Area	Month	Duration in days	Expected No. of Participants									Grand Total
				General			SC			ST			
				Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Common Fish Disease Management	Jan	1	05	03	08	10	04	14	02	01	03	25
2	Water quality management of Fish Pond	Feb	1	05	03	08	10	04	14	02	01	03	25
3	Natural Fish Food Management	March	1	05	03	08	10	04	14	02	01	03	25
4	Fish Feed Management Technology	April	1	05	03	08	10	04	14	02	01	03	25
5	Preparation of Farm Made Fish Feed	May	1	05	03	08	10	04	14	02	01	03	25
6	Fish Seed Production in Seasonal Pond	June	1	05	03	08	10	04	14	02	01	03	25
7	Composite Fish Farming Technology	July	1	05	03	08	10	04	14	02	01	03	25
8	Advance Fish Production Technology	Aug	1	05	03	08	10	04	14	02	01	03	25
9	Semi biofloc&Biofloc Fish Farming	Sept	1	05	03	08	10	04	14	02	01	03	25
10	Community Fish Pond management	Oct	1	05	03	08	10	04	14	02	01	03	25
11	Integrated Fish Farming Technology	Nov	1	05	03	08	10	04	14	02	01	03	25
12	Processing & Value addition of Fish	Dec	1	05	03	08	10	04	14	02	01	03	25
13	Farm machinery & its maintenance	January	1	10	2	12	4	2	6	1	1	2	20
14	Balance Use of fertilizer	May	1	10	2	12	4	2	6	1	1	2	20
15	Processing and value addition	February	1	20	4	24	8	4	12	2	2	4	40
16	Nursery Management	August	1	10	2	12	4	2	6	1	1	2	20
17	Installation and maintenance of micro irrigation systems	October	1	20	4	24	8	4	12	2	2	4	40
18	Use of Plastics in farming practices	September	1	10	2	12	4	2	6	1	1	2	20
19	Production of small tools and implements	December	1	20	4	24	8	4	12	2	2	4	40
20	Repair and maintenance of farm machinery and implements	April	1	20	4	24	8	4	12	2	2	4	40
21	Small scale processing and value addition	March	1	20	4	24	8	4	12	2	2	4	40
22	Post Harvest Technology	June	1	10	2	12	4	2	6	1	1	2	20
23	Group dynamics	March	1	10	2	12	4	2	6	1	1	2	20
24	Formation and Management of SHGs	July	1	20	4	24	8	4	12	2	2	4	40
25	Entrepreneurial development of farmers/youths	January	1	10	2	12	4	2	6	1	1	2	20
26	Capacity building for ICT application	March	2	10	2	12	4	2	6	1	1	2	20
27	Farm machinery, tools and implements	February	4	20	4	24	8	4	12	2	2	4	40
28	Preparation of pollybag nursery seedlings for summer crops	January	1	05	03	08	10	04	14	02	01	03	25
29	Nutrient management in mango	February	1	05	03	08	10	04	14	02	01	03	25
30	Curing process in turmeric rhizome	March	1	05	03	08	10	04	14	02	01	03	25
31	Cultivation practices with use of natural farming in water melon and musk melon	April	1	10	2	12	4	2	6	1	1	2	20
32	Water management of horticultural crops	May	1	10	2	12	4	2	6	1	1	2	20

33	Sowing of turmeric and ginger rhizome in protray technique	June	1	10	2	12	4	2	6	1	1	2	20
34	Nursery Raising technique in Solanaceae crops	July	1	10	2	12	4	2	6	1	1	2	20
35	Integrated nutrient Management in major horticulture Crops	August	1	05	03	08	10	04	14	02	01	03	25
36	Cultural prectises of kharif onion	Sept.	1	05	03	08	10	04	14	02	01	03	25
37	Preperation of nursury bed for cole crop	October	1	05	03	08	10	04	14	02	01	03	25
38	Cultivation of seasonal flower crops	Nov.	1	05	03	08	10	04	14	02	01	03	25
39	Small scale processing and value addition	Dec.	1	05	03	08	10	04	14	02	01	03	25
40	Natural farming	Jan	1	5	5	10	5	5	10	3	2	5	25
41	Soil testing and its importance	Feb	1	5	5	10	5	5	10	3	2	5	25
42	Soil test fertilizer recommendation	March	1	5	5	10	5	5	10	3	2	5	25
43	Integrated Farming	April	1	10	2	12	4	2	6	1	1	2	20
44	Seed production	May	1	10	2	12	4	2	6	1	1	2	20
45	Integrated Crop Management	June	12	20	4	24	8	4	12	2	2	4	40
46	Seed production	July	6	10	2	12	4	2	6	1	1	2	20
47	Soil & water conservation	August	12	20	4	24	8	4	12	2	2	4	40
48	Integrated nutrient Management	September	6	10	2	12	4	2	6	1	1	2	20
49	Production of organic inputs	October	12	20	4	24	8	4	12	2	2	4	40
50	Production of organic manures	November	12	20	4	24	8	4	12	2	2	4	40
51	Oyster Mushroom Production	January	12	20	4	24	8	4	12	2	2	4	40
52	Insect Pest Management of Wheat	February	6	10	2	12	4	2	6	1	1	2	20
53	Insect pest of management SummerPulses	March	12	20	4	24	8	4	12	2	2	4	40
54	Insect pest management of Sugarcane	April	6	10	2	12	4	2	6	1	1	2	20
55	Insect pest management of Summer Rice	May	6	10	2	12	4	2	6	1	1	2	20
56	Paddy Mushroom Production	June	12	20	4	24	8	4	12	2	2	4	40
57	Insect Pest Management of paddy	July	6	10	2	12	4	2	6	1	1	2	20
58	Insect pest management of Kharif pulse crops	August	12	20	4	24	8	4	12	2	2	4	40
59	Insect Pest Management of Tomato	September	6	10	2	12	4	2	6	1	1	2	20
60	Insect pest management of Rabi Oilseeds	October	12	20	4	24	8	4	12	2	2	4	40
61	Insect pest of management Rabi Pulses	November	12	20	4	24	8	4	12	2	2	4	40
62	Trichoderma Production techniques	December	12	20	4	24	8	4	12	2	2	4	40

Target for Production and supply seed, planting material and technological products

Kharif 2024 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (ha)	Expected Production (Q)
1	Soybean	CG Soya 1	BS	7	70
2	Urd	Indira Urd Pratham	BS	0.4	3
3	Paddy	Dubraj Selection-1	FS	1.2	15
Total				**8.6 ha**	

Rabi 2024-25 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (ha)	Expected Production (Q)
1	Chick Pea	C G Chana-2	BS	5.5	50
2	Wheat	Kanishka	BS	3	40
Total				**8.5 ha**	

Planting material Production Programme at Hi-tech Nursery of KVK-Bemetara, Farm

S. No.	Name of Crop	Variety	Number of Planting Material
01	Tomato, Grafted, Tomato, Brinjal, Grafted, Brinjal, Chilli, Cabbage, Cawliflower, Water Melon, Musk Melon, Bittergourd	OP & Hybrid Varieties	8 Lakh

Target for Production and supply seed, planting material and technological products
Essential Oil Production Programme at KVK-Bemetara, Farm

S. No.	Name of Aromatic Crop	Variety	Area (ha)	No. of Planting Material Production (Nos.)	Expected Quantity of oil extraction (L)
1	Lemon Grass	Krishna, Him Shikhar	4	40000	60
2	Citronella	CIM-Bio-13	1	10000	10
3	Palmarosa	Motiya	1	10000	15

Bio-product Production Programme of KVK Farm, Bemetara

S. No.	Name of Crop	Production
1	Waste Decomposer	500 Litres
2	Beejamrit	500 L
3	Ghanjeevamrit	100 Kg
4	Jeevamrit	500 L

Mushroom Spawn Production Programme at KVK, Bemetara

S. No.	Name of Crop	Production (Qtls.)
1	Oyster Mushroom Spawn	20
2	Oyster Mushroom	6

Target for Production and supply seed, planting material and technological products
Proposed plan of Soybean Seed Hub for year 2024

S. No.	Crops	Variety	Area (ha.)	Production (qtls.)	Produced Category
KHARIF					
1.	Soybean	CG Soya 1	100	1000	CS

Planting material Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Number of Planting Material
01	Mango, Jamun, Citrus, Pomegrante, Bel, Tamrind, Guava, Custard Apple, Gulmohar, Karanj, Ban Tulsi, Bringraj, Ber, Amla, Guava (Gooty), Citrus (Gooty), Pomegranate (Gooty), Mango (Grafted)	Local Collection & Improved Varieties	50,000

Annexure–I:Experts discipline wiseTrainingProgramme

i)Farmers&Farmwomen

1.OnCampus

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–Soil Science &Agronomy										
Mar		importance of Natural farming	1	5	5	**10**	8	7	**15**	25
Jul		Soil test fertilizer recommendation and Preparation of beejamrita and jeevamritaKharif crops	1	5	5	**10**	8	7	**15**	25
Aug		Fertilizer management in kharif crops Integrated nutrient management in kharif crop	1	5	5	**10**	8	7	**15**	25
Sep		Soil sampling	1	5	5	**10**	8	7	**15**	25
Oct		Field preparation, sowing and fertilizer management in Rabi crop, Natural farming in Wheat ,Chickpea	1	5	5	**10**	8	7	**15**	25
Nov		Package and practice of natural farming	1	5	5	**10**	8	7	**15**	25
Dec		Preparation and use of beejamrita and jeevamrita in Rabi crops	1	5	5	**10**	8	7	**15**	25
Horticulture										
Feb		Curing process in turmeric rhizome	1	10	10	**20**	10	10	**20**	40
Feb		Cultivation practices with use of natural farming in water melon and musk melon	1	10	10	**20**	10	10	**20**	40
June		Sowing of turmeric and ginger rhizome in portray technique	2	10	10	**20**	10	10	**20**	40
July		Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops	2	10	10	**20**	10	10	**20**	40
October		Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops	2	10	10	**20**	10	10	**20**	40
Livestock production-Nil										
Home Science-Nil										
Plant Protection – Plant Pathology										

Jan, 24		Integrated Pest Management of major Summer Crops	2	15	9	24	27	9	36	**60**
Feb, 24		Integrated Pest Management in major horticulture Crops	2	20	5	25	27	9	36	**60**
Aug, 24		Preparation of Beejamrit	2	20	6	26	27	9	36	**60**
Jul, 24		Mushroom cultivation	2	15	9	24	27	9	36	**60**
Nov, 24		Multiplication of Trichoderma	2	20	6	26	27	9	36	**60**
June, 24		Integrated Pest Management in major Kharif Crops	2	20	5	25	27	9	36	**60**
Dec, 24		Preparation of organic insecticides	2	20	6	26	27	9	36	**60**
Oct, 24		Integrated Pest Management in major Rabi Crops	1	10	10	20	27	9	36	**60**
Agriculture Extension (Capacity Building and Group Dynamics)–Nil										
Soil Science-Nil										
Fisheries										
Jan		Common Fish Disease Management	1	05	03	08	12	5	17	**25**
Feb		Water quality management of Fish Pond	1	05	03	08	12	5	17	**25**
March		Natural Fish Food Management	1	05	03	08	12	5	17	**25**
April		Fish Feed Management Technology	1	05	03	08	12	5	17	**25**
May		Preparation of Farm Made Fish Feed	1	05	03	08	12	5	17	**25**
June		Fish Seed Production in Seasonal Pond	1	05	03	08	12	5	17	**25**
July		Composite Fish Farming Technology	1	05	03	08	12	5	17	**25**
Aug		Advance Fish Production Technology	1	05	03	08	12	5	17	**25**
Sept		Semi biofloc&Biofloc Fish Farming	1	05	03	08	12	5	17	**25**
Oct		Community Fish Pond management	1	05	03	08	12	5	17	**25**
Nov		Integrated Fish Farming Technology	1	05	03	08	12	5	17	**25**
Dec		Processing & Value	1	05	03	08	12	5	17	**25**

		addition of Fish								
Agri Engineering										
Jan		Farm machinery &its maintenance	2	10	2	12	5	3	8	**20**
March		Processing and value addition	1	20	4	24	10	6	16	**40**
April		Nursery Management	2	10	2	12	5	3	8	**20**
May		Installation and maintenance of micro irrigation systems	1	20	4	24	10	6	16	**40**
June		Use of Plastics in farming practices	2	10	2	12	5	3	8	**20**
July		Repair and maintenance of farm machinery and implements	2	20	4	24	10	6	16	**40**
Sept		Post Harvest Technology	1	10	2	12	5	3	8	**20**
Oct		Formation and Management of SHGs	2	20	4	24	10	6	16	**40**
Nov		Capacity building for ICT application	1	10	2	12	5	3	8	**20**
Dec		Farm machinery, tools and implements	2	20	4	24	10	6	16	**40**

2. OffCampus

Month/ Tentative Date	**Clientele**	**Title of the training programme**	**Duration in days**	**Number of participants**						**Grand Total**
				Others			**Number of SC/ST**			
				Male	**Female**	**Total**	**Male**	**Female**	**Total**	
Crop Production – Soil Science/Agronomy										
April		Soil sampling methods (b) Importance of deep summer ploughing (c) Irrigation Management in summer crops (d) Natural farming	1	5	5	**10**	8	7	**15**	25
May		Storage of seeds (b)Seed hub (c) Harvesting of summer agronomic crops (d) Natural farming	1	5	5	**10**	8	7	**15**	25
Jun		Field preparation, sowing and fertilizer management of Kharif crops	1	5	5	**10**	8	7	**15**	25
Jul		Soil test fertilizer recommendation,Preparation and use of beejamrita and jeevamritaKharif crops	1	5	5	**10**	8	7	**15**	25
Aug		a) Fertilizer management in kharif crops (b) integrated nutrient management in kharif crop © Natural farming	1	5	5	**10**	8	7	**15**	25

Sep		Soil sampling (b) Natural farming	1	5	5	**10**	8	7	**15**	25
Nov		a) Storage of seeds (b) Irrigation management in rabi crops © Crop ration and diversification (d) Natural farming	1	5	5	**10**	8	7	**15**	25
Horticulture										
Feb		Curing process in turmeric rhizome	1	10	10	**20**	10	10	**20**	40
Feb		Cultivation practices with use of natural farming in water melon and musk melon	1	10	10	**20**	10	10	**20**	40
June		Sowing of turmeric and ginger rhizome in 37ortray technique	2	10	10	**20**	10	10	**20**	40
July		Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops	2	10	10	**20**	10	10	**20**	40
October		Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops	2	10	10	**20**	10	10	**20**	40
Livestock production-Nil										
Home Science-Nil										
Plant Protection – Entomology/Plant Pathology										
June, 23		Integrated Pest Management in major kharif Crops	2	15	9	24	27	9	36	**60**
July, 23		Integrated Pest Management in major horticulture Crops	2	20	5	25	27	9	36	**60**
Aug, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	**60**
Sep, 23		Mushroom cultivation	2	15	9	24	27	9	36	**60**
Oct, 23		Multiplication of Trichoderma	2	20	6	26	27	9	36	**60**
Nov, 23		Integrated Pest Management in major Rabi Crops	2	20	5	25	27	9	36	**60**
Dec, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	**60**
Feb		Use of beejamrita in cucurbitaceous vegetable crops	1	10	10	20	27	9	36	**60**
Agriculture Extension (Capacity Building and Group Dynamics) –Nil										
Soil Science-Nil										
Fisheries										
Jan		Common Fish Disease Management	1	05	03	08	12	5	17	**25**
March		Natural Fish Food Management	1	05	03	08	12	5	17	**25**

May		Preparation of Farm Made Fish Feed	1	05	03	08	12	5	17	**25**
June		Fish Seed Production in Seasonal Pond	1	05	03	08	12	5	17	**25**
July		Composite Fish Farming Technology	1	05	03	08	12	5	17	**25**
Aug		Advance Fish Production Technology	1	05	03	08	12	5	17	**25**
Oct		Community Fish Pond management	1	05	03	08	12	5	17	**25**
Nov		Integrated Fish Farming Technology	1	05	03	08	12	5	17	**25**
Agri Engineering										
Jan		Farm machinery &its maintenance	1	10	2	12	5	3	8	**20**
March		Processing and value addition	1	20	4	24	10	6	16	**40**
April		Nursery Management	1	10	2	12	5	3	8	**20**
May		Installation and maintenance of micro irrigation systems	1	20	4	24	10	6	16	**40**
June		Use of Plastics in farming practices	1	10	2	12	5	3	8	**20**
July		Repair and maintenance of farm machinery and implements	1	20	4	24	10	6	16	**40**
Sept		Small scale processing and value addition	1	20	4	24	10	6	16	**40**
Oct		Formation and Management of SHGs	1	20	4	24	10	6	16	**40**
Dec		Farm machinery, tools and implements	1	20	4	24	10	6	16	**40**

VocationalTrainingProgrammeforRuralYouth:-Nil

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	Oct	Trichoderma	1	5	5	**10**	8	7	**15**	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	
Protection		Production techniques								
	July	Mushroom cultivation	1	5	5	**10**	8	7	**15**	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

TrainingProgrammeforExtensionFunctionaries:

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 – Soil Science/Agronomy										
April		Soil sampling methods (b) Importance of deep summer ploughing (c) Irrigation Management in summer crops (d) Natural farming	1	5	5	**10**	8	7	**15**	25
Jul		a) Weed management in Khraif crops (b) Intercultural operations in maize and sugarcane (c) Transplanting of rice	1	5	5	**10**	8	7	**15**	25
Aug		a) Fertilizer management in kharif crops (b) Fodder maize cultivation technique © Natural farming	1	5	5	**10**	8	7	**15**	25
Nov		a) Storage of seeds (b) Irrigation management in rabi crops © Crop ration and diversification (d) Natural farming	1	5	5	**10**	8	7	**15**	25
Dec		a) Intercultural operations (b) Natural farming © millets cultivation	1	5	5	**10**	8	7	**15**	25
Horticulture										
Feb		Curing process in turmeric rhizome	1	10	10	**20**	10	10	**20**	40
Feb		Cultivation practices with use of natural farming in water melon and musk melon	1	10	10	**20**	10	10	**20**	40
June		Sowing of turmeric and ginger rhizome in 39ortray	2	10	10	**20**	10	10	**20**	40

		technique								
July		Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops	2	10	10	**20**	10	10	**20**	40
October		Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops	2	10	10	**20**	10	10	**20**	40
Livestock production-Nil										
Home Science-Nil										
Plant Protection – Entomology/Plant Pathology										
June, 23		Integrated Pest Management in major kharif Crops	2	15	9	24	27	9	36	**60**
July, 23		Integrated Pest Management in major horticulture Crops	2	20	5	25	27	9	36	**60**
Aug, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	**60**
Sep, 23		Mushroom cultivation	2	15	9	24	27	9	36	**60**
Oct, 23		Multiplication of Trichoderma	2	20	6	26	27	9	36	**60**
Nov, 23		Integrated Pest Management in major Rabi Crops	2	20	5	25	27	9	36	**60**
Dec, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	**60**
Feb		Use of beejamrita in cucurbitaceous vegetable crops	1	10	10	20	27	9	36	**60**
Agriculture Extension (Capacity Building and Group Dynamics) –Nil										
Soil Science-Nil										
Fisheries										
Jan		Common Fish Disease Management	1	05	03	08	12	5	17	**25**
March		Natural Fish Food Management	1	05	03	08	12	5	17	**25**
April		Fish Feed Management Technology	1	05	03	08	12	5	17	**25**
July		Composite Fish Farming Technology	1	05	03	08	12	5	17	**25**
Aug		Advance Fish Production Technology	1	05	03	08	12	5	17	**25**
Nov		Integrated Fish Farming Technology	1	05	03	08	12	5	17	**25**
Agri Engineering										
Jan		Farm machinery &its maintenance	1	10	2	12	5	3	8	**20**
March		Processing and	1	20	4	24	10	6	16	**40**

		value addition								
May		Installation and maintenance of micro irrigation systems	1	20	4	24	10	6	16	**40**
June		Use of Plastics in farming practices	1	10	2	12	5	3	8	**20**
July		Repair and maintenance of farm machinery and implements	1	20	4	24	10	6	16	**40**
Sept		Small scale processing and value addition	1	20	4	24	10	6	16	**40**
Oct		Formation and Management of SHGs	1	20	4	24	10	6	16	**40**
Oct		Entrepreneurial development of farmers/youths	1	10	2	12	5	3	8	**20**

iii) SponsoredTrainingProgrammes - Nil

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													

ExtensionActivities(includingactivitiesofFLDprogrammes)

Nature of Extension Activity	**No. of activities**	**Farmers**			**Extension Officials**			**Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Field Day	10	25	25	50	05	05	10	30	30	60
Kisan Mela	02	25	25	50	05	05	10	30	30	60
Kisan Ghosthi	03	25	25	50	05	05	10	30	30	60
Exhibition	02	25	25	50	05	05	10	30	30	60
Film Show	20	25	25	50	05	05	10	30	30	60
Method Demonstrations	04	25	25	50	05	05	10	30	30	60
Farmers Seminar	05	25	25	50	05	05	10	30	30	60
Workshop	05	25	25	50	05	05	10	30	30	60
Group meetings	12	25	25	50	05	05	10	30	30	60
Lectures delivered as resource persons	20	25	25	50	05	05	10	30	30	60
Newspaper coverage	25	25	25	50	05	05	10	30	30	60
Radio talks	05	25	25	50	05	05	10	30	30	60
TV talks	05	25	25	50	05	05	10	30	30	60

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Popular articles	02	25	25	50	05	05	10	30	30	60
Extension Literature	05	25	25	50	05	05	10	30	30	60
Advisory Services	10	25	25	50	05	05	10	30	30	60
Scientific visit to farmers field	10	25	25	50	05	05	10	30	30	60
Farmers visit to KVK	50	25	25	50	05	05	10	30	30	60
Diagnostic visits	24	25	25	50	05	05	10	30	30	60
Exposure visits	02	25	25	50	05	05	10	30	30	60
Ex-trainees Sammelan	01	25	25	50	05	05	10	30	30	60
Soil health Camp	02	25	25	50	05	05	10	30	30	60
Animal Health Camp	01	25	25	50	05	05	10	30	30	60
Agri mobile clinic	12	25	25	50	05	05	10	30	30	60
Soil test campaigns	00	25	25	50	05	05	10	30	30	60
Farm Science Club Conveners meet	00	25	25	50	05	05	10	30	30	60
Self Help Group Conveners meetings	02	25	25	50	05	05	10	30	30	60
Mahila Mandals Conveners meetings	02	25	25	50	05	05	10	30	30	60
Celebration of important days (specify)	03	25	25	50	05	05	10	30	30	60
Others (pl. specify)	03	25	25	50	05	05	10	30	30	60
Total	**127**	**750**	**750**	**1500**	**150**	**150**	**300**	**900**	**900**	**1800**

Target for Production and supply of technological products
Target for Production and supply seed, planting material and technological products

Kharif 2024 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (Ha)	Expected Production (Q)
1	Soybean	JS 20-98	BS	5	60
2	Urd	Indira Urd Pratham	BS	1	5
3	Paddy	Dubraj Selection-1	FS	1	15
4	Pigeon Pea	C G Arhar 1	FS	0.4	6
5	Sem	Indira Sem-1	FS	0.4	3
6	Turmuric	Rasmi	TL	0.6	40

Rabi 2024-25 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (Ha)	Expected Production (Q)
1	Chick Pea	C G Chana-2	BS	3	40
2	Wheat	Chhattisgarh Amber	FS	2	25
3	Lathyrus	Mahatiwada	FS	0.4	4
4	Lentil	IPL-316	FS	1	5
5	Methi	RMT-305	FS	1	3

6	Coriander	Jawahar Dhaniya-1	TL	0.2	0.5
7	Palak	All Green	TL	0.2	0.5

PLANTINGMATERIALS

Planting material Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Number of Planting Material
1	Mango	Local Collection	5000
2	Jamun		5000
3	Citrus		5000
4	Pomegrante		1000
5	Bel		5000
6	Tamrind		1000
7	Guava		10000
8	Custard Apple		5000
9	Gulmohar		10000
10	Karanj		8000
11	Ban Tulsi		5000
12	Bringraj		5000
13	Ber		1000
14	Amla		2000
15	Guava (Gooty)	Illahabadisafeda, Dharidar, Arka Mrudula	8000
16	Citrus (Gooty)	Kagazi	5000
17	Pomegranate (Gooty)	Bhagua, G-137	2000
18	Mango (Grafted)	Amrapali, Deshari, Langda, Chausa	1000

Planting material Production Programmeat Hi-tech Nursery of KVK-Bemetara, Farm

Sl. No.	Crop	Variety	Quantity (Nos.)
1	Tomato	Sahoo, Prishi, EW-815, NS-962, Kashi Aman	350000
2	Grafted Tomato	Sahoo	30000
3	Brinjal	VNR-212, Galaxy Green Round and White Brinjal	20000
4	Grafted Brinjal	VNR-212	10000
5	Chilli	Pride, NS-1061 (R), Kashi Anmol	100000
6	Cabbage	NS-43, Fieldman	30000
7	Cawliflower	, Super Sigrhah, Amazing, Tetris	40000
8	Water Melon	Kiran-2	30000
9	Musk Melon	Akshay-25, Mogambo, No. 24	40000
10	Bittergourd	BSAF Ruhan	15000
11	Broccoli	Green Magic	5000
12	Turmeric	Rashmi	300000
13	Ginger	Local	300000

Essential Oil Production Programme at KVK-Bemetara, Farm

S. No.	Name of Aromatic Crop	Variety	Area (Ha)	No. of Planting Material Production (Nos.)	Expected Quantity of oil extracted (L.)
1	Lemon Grass	Krishna, Him Shikhar	2	300000	60
2	Citronella	CIM-Bio-13	1	50000	15
3	Palmarosa	Motiya	1	30000	40
4	Turmeric	Rashmi	0.6	-	5
5	Eucalyptus	Local	-	-	5

Bio-product Production Programme of KVK Farm, Bemetara

S. No.	Name of Crop	Quantity
1	Waste Decomposer	1000 Litre
2	Beejamrut	1000Litre
3	Ghanjeevamrut	1000 Litre
4	Jeevamrut	200 Litre
5	Neemastra	50 Litre
6	Brahmastra	50 Litre

Bio-products -

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	*Rhizobium*			
3				
BIOFERTILIZERS				
1	Vermicompost			2000
2	NADEP			2000

3				
BIO PESTICIDES				
1	Dasparniarkl		-	
2	Pesticides			
3				

LIVESTOCK- Nil

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

LiteraturetobeDeveloped/Published

KVKNewsLetter-

Dateofstart	**Periodicity**	**Numberofcopiestobepublished**
January to March 2024	Quarterly	200
April to June 2024	Quarterly	200
July to September 2024	Quarterly	200
October to December 2024	Quarterly	200

DetailsofElectronicMediatobeProduced

S. No.	**Type of media (CD / VCD / DVD / Audio-Cassette)**	**Title of the programme**	**Number**
1	CD / VCD	Natural Farming	4
2	CD	Integrated pest management	2

Success stories/Case studies identified for development as a case: …8….(no.)

Indicatethespecifictrainingneedanalysistools/methodologyfollowedfor(Viz PRA, AES, line dept, ex trainees, interface)

S. No.	**Training**	**Needanalysistools/methodologyfollowed**
1	Identificationofcoursesforfarmers/farmwomen	Audio visual, method demonstration
2	RuralYouth	Method demonstration
3	In-servicepersonnel	Power point presentation
4	MethodologyforidentifyingOFTs/FLDs	Method demonstration
5	Matrixranking	-

FieldActivities

Nameofvillagesidentifiedforadoptionwithblockname:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Batar,	Nawagarh	20 km
2	Sandi	Berla	40km
3	Mauhabhata	Saja	45km

1. No.offarmfamiliesselectedper village :5
2. No. ofsurvey/PRAtobe conducted: 3

3.11.ActivitiesofSoilandWaterTestingLaboratory - Nil

Yearofestablishment:……..

Listofequipmentspurchased:

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

Detailsofsamplesanalyzedso far: - Nil

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

LINKAGES

Functionallinkagewithdifferentorganizations

Name of organization	Nature of linkage
CG state seed certification agency	Seed certification
CG Rajya beej& Krishi vikashnigam ltd.	Seed purchasing & Registration certification
National Seed Corporation (NSC)	Seed purchasing & seed selling
National Seed Project (NSP)	Seed purchasing & seed selling
Jila Panchayat	MNREGA, Projects
NGO (SAMARTH)	Training, Demonstration
Other KVKs	Seed purchasing & seed selling & other work

Detailsoflinkage withATMA/ NFSM

a**)IsATMAimplemented in yourdistrict** **Yes**/No

Name of Programme	Nature of linkage
Different type of training	In farmers field / offline mode

GivedetailsofprogrammersimplementedunderNationalHorticulturalMission

Name of Programme	Nature of linkage
Workshop on Protective cultivation of horticultural crops	Training- Sponsored by Horticultural Department
Planting material productions	Training- Sponsored by Horticultural Department

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Droneetc)

Name of Flagship programmes : Seed Hub, Natural farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan	Basic concept and principles of Natural Farming	25 Farmers
Feb	Basic concept and principles of Natural Farming and Preparation and use of Beejamrita	25 Farmers
Mar	Basic concept and principles of Natural Farming and Preparation and use of Jeevamrita	25 Farmers
Apr	Basic concept and principles of Natural Farming and Preparation and use of Ghanjeevamrita	25 Farmers
May	1)Basic concept and principles of Natural Farming and Crop protection in Natural Farming 2) Seed selling Under seed hub	25 Farmers 10 farmers
June	Seed selling Under seed hub and sowing	25 Farmers 10 farmers
July	1)Basic concept and principles of Natural arming and prepartion of beejamrita, jeevamrita and neemastra 2) Seed selling Under seed hub and sowing	25 Farmers 10 farmers
August	Basic concept and principles of Natural Farming	25 Farmers
September	1) Basic concept and principles of Natural Farming and Preparation and use of Beejamrita 2) Seed selling Under seed hub	25 Farmers
October	1) Basic concept and principles of Natural Farming and Preparation and use of Jeevamrita 2) Seed selling Under seed hub and sowing	25 Farmers
November	1) Basic concept and principles of Natural Farming and Preparation and use of Ghanjeevamrita 2) Sowing in seed hub	25 Farmers
December	Basic concept and principles of Natural Farming and Crop protection in Natural Farming	25 Farmers

Planning for Crop Cafeteria 2024

Total Area of Crop Cafeteria: 52 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 20-98	High yielding, Resistant to YMV and Charcol Rot	4
Soybean	Kharif	CG Soya-1	Good germination, tolerant to bud blight and shattering	4
Soybean	Kharif	RSC 10-46	Resistant to YMV, Charcol Rot, blight, bacterial pustule and pod borer	4
Sem	Kharif	Indira Sem-1	Early, High yielding, resistant to bean virus, rhizoctonia blight and insect	4
Sem	Kharif	Indira Sem-2		4
Turmeric	Kharif	Rasmi	Rhizome is fleshy, late maturing variety	4
Turmeric	Kharif	Roma	Rhizome is fleshy, resistant to disease and insect	4

Planning for Crop Cafeteria 2024

Total Area of Crop Cafeteria: 52 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Chick Pea	Rabi	CG Chana-2	Moderately resistant to wilt	4

	Rabi	RVG-201	Early maturing Desi type, moderately resistant to wilt	4
	Rabi	RVG-202	Mod, resistant against wilt and dry root rot and collar rot	4
Wheat	Rabi	CG Amber wheat	Excellent Chapatti making quality	4
	Rabi	CG Hansa wheat	Excellent Chapatti making quality, High Zn Content, Resistant to rust	4
Lathyrus	Rabi	Mahatiwda	Tol. to nematode &thirps, mod. Resistant to PM	4
	Rabi	Pratik	Tol. to downy mildew & mod. Resistant to powdery mildew	4
Lentil	Rabi	CG Masoor-1	High yielding, Moderately tolerant to drought	4
	Rabi	IPL -316	Tolerance to wilt and rust	4

Details of Demonstration Unit at KVK

Demonstration Unit	**Particulars /details**	**Area (Sq m)**	**Output /Production**
Fish	Catla, Rohu, Mrigal, Silver Carp, Grass Carp, Common Carp	1000	Marketable Size Fish
Hi-Tech Nursery	Vegetable seedlings	600	Planting material
Essential Oil Extraction Unit	Oil extraction of lemongrass, citronella, palmarosa, turmeric etc.	25	Essential Oil
Medicinal Plants	Propagation ofBantulsi, Bringraj, hadjod, Aparajita, Giloe, Aloevera, Banlehsunetc	300	Seeds and other vegetative propagule
Natural Farming	Preparation of Beejamrita, Jeevamrita, Ghanjeevamrita	50	Beejamrita, Jeevamrita, Ghanjeevamrita
Mother orchard	Guava, Mango, Pomegranate, Citrus, Apple Ber	300	Plants/Fruits
Nadep and Vermicompost	Nadep and vermicompost production	100	Enriched Compost
Mushroom production	Oyster mushroom production	50	Oyster Mushroom

Senior Scientist & Head
KVK, Bemetara (CG)