ANNUAL ACTION PLAN 2023

Krishi Vigyan Kendra – Bemetara (Chhattisgarh)

Year of Sanction: 2017

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact			
	Office	**Mobile**	**Email**	**Website**
Shri Toshan Kumar Thakur	KVK, Bemetara, Village - Jhal	7067287806, 9826687395	kvk.bemetara@igkv.ac.in	kvkbemetaraigkv.org

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Vacant	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Shri Toshan Kumar Thakur **I/c**	SMS	Fisheries	15600-39100	07/09/2012	02/07/2020	9826687395	toshan.thakur@gmail.com	
3	Subject Matter Specialist	Dr. (Smt) Ekta Tamrakar	SMS	Entomology	15600-39100	31/10/2014	16/08/2019	9993442554	ektatamrakar.bsp@gmail.com	
4	Subject Matter Specialist	Dr. Jitendra Kumar Joshi	SMS	Farm Machinery and Power Engg.	15600-39100	05/10/2018	05/10/2018	7805039366	jitigkv@gmail.com	
5	Subject Matter Specialist	Dr. Ku. Chetna Banjare	SMS	Horticulture	15600-39100	06/10/2018	06/10/2018	8962765997	chetna04banjare@gmail.com	
6	Subject Matter Specialist	Dr. (Smt.) Pragya Pandey	SMS	Agronomy	15600-39100	26/10/2018	26/10/2018	7415302203	gyan.pragya89@gmail.com	
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
8	Programme Assistant	Vacant	-	-	-	-	-	-	-	-
9	Computer Programmer/ Programme Assistant	Shri Shiv Kumar Sinha	PA(Comp.)	Computer Application	9300-34800	06/09/2012	03/05/2017	7999946840	sksinhanarayanpur@gmail.com	
10	Farm Manager	Dr. Hemant Sahu	FM	Genetics & Plant Breeding	9300-34800	04/03/2020	04/03/2020	9039261949	hemant.sahupant@gmail.com	
11	Assistant	Shri Palash Choubey	AG-I	AG-I	5200-20200	10/06/2021	10/06/2021	8109092018	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	8839270321	bprasad3185@gmail.com	
13	Driver	Shri Sparsh Patel	Driver	Jeep	5200-20200	16/06/2021	16/06/2021	7724066863	sparshp610@gmail.com	
14	Driver	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Shri Omprakash Sahu	Peon	Peon	4750-7440	15/06/2021	15/06/2021	9630288821	omprakash14081988@gmail.com	
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha) : 20

S. No.	Item	Area (ha)
1	Under Buildings	0.8
2	Under Demonstration Units	0.01
3	Under Crops	7
4	Orchard/Agro-forestry	4
5	Others (Aromatic crops, Fallow Land, Pond, Road)	8
	Total	**20**

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	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 godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	594086.52	2238.2 hour	Good working condition
Motor Cycle 2	-	-	-	-
Bolero (Jeep)	2018	774890.00	155139 km	Good working condition
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

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

Sl. No.	Tentative Date
1.	12.07.2023

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	Rainfed Paddy	Broadcasting biasi, Line sowing, Transplanted rice, Direct seeded rice
2	Rainfed Soybean	Line sowing of soybean, BBF Sowing
3	Paddy –Chickpea	-
4	Soybean - Chickpea	-
5	Soybean – Linseed	-

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

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 & soyabeen.
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 deficient in minerals and other productivity enhancing nutrients.

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

AES-2 (name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

AES-3 (name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

AES-4 (name)

Strength	Weakness	Opportunities	Threats
□	□	□	□

Add AES if needed

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	285690
Forest	0.040
Waste Land	52.770
Other than cultivated area	-
Cultivable waste and alkaline land	5.340
Pastures	23.260
Bushes	-
Current Fallow	2.950
Other Fallow	4.400
Agricultural Land	392.585
Area Sown	23.2710
Kharif	224.398
Rabi	168.187
Zaid	1.200
Cropping Intensity	174.32%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5365
2	Well	1116
3	Tube well	18280
4	Ponds	2525
5	Others	636
	TOTAL	**27922**

Soil types

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, Production and Productivity of major crops cultivated in the district

Kharif-

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	1,93,763.800	4601610.00	26.67
2	Kodo-Kutki	5,544.620	63710.00	12.50
3	Pigeonpea	5,064.336	59320.00	8.20
4	Soybean	5,139.383	19350.00	9.0
5	Sugarcane	3778.097	348718.00	92.300
6	Maize	266.42	16050.00	25.90
7	Black gram	260.945	520.00	5.40
8	Green gram	14.350	350.00	5.20
9	Groundnut	1388.883	18620.00	14.90
10	Til	14.58	380.00	4.12
11	Banana	1101.00	290230.00	-
12	Guava	552.00	157670.00	-
13	Mango	1046.00	40180.00	-
14	Papaya	721.00	283530.00	-
15	Lemon	295.00	17190.00	-

16	Jack fruit	25.00	4450.00	-
17	Ber	96.00	4690.00	-
18	Anola	24.00	7500.00	-
19	Brinjal	1829.00	452950.00	-
20	Tomato	2502.00	520040.00	-
21	Turmeric	266.00	11380.00	-
22	Ginger	180.00	31200.00	-
23	Elephant foot yam	471.00	93680.00	-
24	Garlic	539.00	15960.00	-

Rabi –

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Wheat	51020.00	1020400.00	20.00
2	Maize	2590.00	78730.00	30.40
3	Paddy	4450.00	143190.00	32.00
4	Chickpea	70440.00	14090.00	10.0
5	Lathyrus	29010.00	49310.00	1.70
6	Pea	540.00	4450.00	8.20
7	Lentil	2820.00	17730.00	6.30
8	Green gram	10.00	20.00	1.60
9	Black gram	20.00	40.00	1.80
10	Mustard	780.00	4300.00	5.50
11	Linseed	390.00	1120.00	2.90
12	Safflower	110.00	660.00	6.10
13	Groundnut	70.00	940.00	13.0
14	Sugarcane	730.00	66912.00	92.30
15	S. Orange	10.00	660.00	-
16	Custard apple	21.00	650.00	-
17	Water Melon	83.00	15520.00	-
18	Musk Melon	116.00	11600.00	-
19	Dragon fruit	52.00	1900.00	-
20	Sapota	6.00	520.00	-
21	Pomegranate	50.00	920.00	-
22	Cauliflower	1670.00	332590.00	-
23	Onion	576.00	121230.00	-
24	Potato	946.00	554990.00	-
25	Coriander	1244.00	71320.00	-
26	Cabbage	1250.00	223750.00	-
27	Beans	302.00	20420.00	-
28	Bitter Guard	808.00	268200.00	-
29	Green Pea	699.00	71780.00	-
30	cawpea	1039.00	120290.00	-
31	Bhindi	1519.00	214400.00	-
32	Knolkhol	1008.00	189960.00	-
33	Kaddu	227.00	88660.00	-
34	Bottle guard	688.00	176170.00	-
35	Green Chilli	805.00	26100.00	-
36	Shimla Mirch	237.00	22200.00	-
37	Carrot	303.00	17650.00	-
38	Radish	314.00	36610.00	-
39	Parwal/kundru	169.00	17110.00	-
40	Methi	183.00	9150.0	-

Area and Production of major Horticulture crops cultivated in the district

S. No.	Crops	Area (In ha)	Production (In MT)
1	Fruits	4295.00	84106.00
2	Vegetables	18613.00	371928.00
3	Spices	2848.00	16561.00
4	Flowers	184.00	2156.40
5	Medicinal & Aromatic	0.00	0.00

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

Month /Year	**Rainfall (m.m.)**	**Temperature (^{0} C)**	
		Maximum	**Minimum**
Jan, 2022	181	30^0c	8^0c
Feb, 2022	30.6	33^0c	10^0c
Mar, 2022	0	40^0c	17^0c
Apr, 2022	32	43^0c	21^0c
May, 2022	45.2	43^0c	21^0c
Jun, 2022	642	43^0c	23^0c
July, 2022	1285.5	33^0c	23^0c
Aug., 2022	944.6	33^0c	23^0c
Sept., 2022	512.6	33^0c	23^0c
Oct. 2022	207.4	32^0c	15^0c
Nov. 2022	0	32^0c	11^0c
Dec. 2022	0	31^0c	13^0c

Production and productivity of livestock, Poultry, Fisheries etc. 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

Details of Operational area / Villages (2022)

Sl. No.	Subject	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Agronomy	Saja	Saja	Padumsara	Chickpea	Weed Problem	Need control (chemical)
	Agronomy	Saja	Saja	Mohabhata	Lathyrus	Conventional utera technique	Improved utera with fertilizer and insecticide
	Agronomy	Berla	Berla	Sandi	Wheat	Old varieties	New variety high yielding (Kanishka)
2	Entomology	Nawagarh	Nawagarh	Baguli, Pendri	Paddy, chick pea, Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
	Entomology	Berla	Berla	Sandi, Chetua, Bhand, Sankara	Paddy, wheat, chick pea, Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
	Entomology	Saja	Saja	Tendubhatha, Mouhabhatha	Paddy, wheat, chick pea, Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
3	Horticulture	Saja	Saja	Mouhabhatha	Tomato	Wilting	Use of tricoderma
4							

Priority / Thrust areas

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 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 vegetable based land use system for increasing cropping intensity and profitability..
7.	Nutritional security for tribal's

8.	Value addition for income and employment generation

TECHNICAL PROGRAMME

20) **Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	**Number of Farmers**	**Number of FLDs**	**Number of Farmers**
14	84	FLD – 12 & CFLD -10	FLD 82 & CFLD 250

Training		Extension Activities	
3		4	
Number of Courses	**Number of Participants**	**Number of activities**	**Number of participants**
52	1200	160	3269

Seed Production (Qtl.)	Planting material (Nos.)
207	1354000

Action Plan 2023

Name	Designation & Discipline	OFT	FLD	Farmer Training	In-service training
Shri Toshan Kumar Thakur	SMS (Fisheries)	2	2	12	1
Dr.(Smt.) Ekta Tamrakar	SMS (Entomology)	2	2	12	2
Dr.(Smt.) Pragya Pandey	SMS (Agronomy)	3	3	20	2
Dr. Chetna Banjare	SMS (Horticulture)	4	2	9	1
Dr. Jetendra Kumar Joshi	SMS (FMPE)	2	4	30	1
	TOTAL	**13**	**13**	**83**	**7**

B. Abstract of interventions to be undertaken

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	Low fish Production in IMC/Tilapia Fish Farming in Fish Pond	Assessment of Tilapia Fish Farming in semi-biofloc fish tank	Demonstration on inclusion of exotic carp with IMC in composite fish farming system	Common Fish Disease Management 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	13	
2	Fisheries	Fish	Low yield from carp culture due to less growth during winter	Assessment of growth promoter 'Raa fres- AQ' in maximizing 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		
3	Plant Protection	Paddy	Heavy loss due to severe infestation of stem fly and girdle beetle	Assessment of thiomethoxam with lamda-cyhalothrin for stem fly and girdle beetle management	Demonstration on Fenpyroxymate 5EC with Propiconazole 25 EC against panicle mite in paddy crop	Integrated Pest Management in major kharif Crops	Integrated Pest Management in major kharif Crops, Integrated Pest Management in major horticulture Crops Preparation of organic insecticides,	14	
4	Plant Protect	Tomato	Reduction of natural enemies due to	Assessment of insect pest management practices under	Demonstration of IPM modules	Integrated Pest	Mushroom cultivation,		

	ion		indiscriminate use of insecticides.	natural farming against fruit borer in Tomato	against Shoot & fruit borer in Brinjal	Management in major horticulture Crops	Multiplication of Trichoderma, Integrated Pest Management in major Rabi Crops, Preparation of organic insecticides		
5	Weed Management	Soyabean	Lower yield in Soybean due to heavy weed infestation	Assessment of Chemical Weed management in Soybean	Demonstration of Integrated Weed Management in Cotton		Intercultural operations and t in Rabi crops (b)Irrigation management in Rabi crops © Natural farming (a)Harvesting and storage of Rabi crops (b)Sumer agronomic crop sowing techniques © Natural farming	22	
6	Integrated Nutrient Management	Kodo Millet	Non judicious use of fertilizer and no use of biofertilizer	Assessment of yield of Kodo millet (*Paspalum scorbiculatum* L.) under Natural Farming and conventional (Chemical) farming in Bemetara District	Demonstration on improved utera (relay cropping) technique in Lathyrus	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		
7	Weed Management	Chick pea	Assessment of Chemical Weed management in Chickpea	Assessment of Chemical Weed management in Chickpea			(a)Storage of seeds (b)Seed hub (c) Harvesting of summer agronomic crops (d) Natural farming		
8	Varietal Assessment	Wheat	Less yield due to cultivation of lower yielding variety		Assessment of performance of new Wheat variety Kanishka (C.G. – 1029) in Bemetara District		(a)Field preparation, sowing and fertilizer management of Kharif crops (b) Nursery management in Rice and DSR © Seed		

							Treatment (d) Natural farming in Kodo Weed management in Khraif crops (b) Intercultural operations in maize and sugarcane (c) Transplanting of rice Fertilizer management in kharif crops (b) Fodder maize cultivation technique © Natural farming 20) Crop diversification (b) Natural farming © Seed hub Field preparation, sowing and fertilizer management in Rabi crop (b) Silage making © Harvesting of Kharif crops (d) Natural farming in Wheat Storage of seeds (b) Irrigation management in rabi crops © Crop ration and diversification (d) Natural farming Intercultural operations (b) Natural farming © millets cultivation		
9	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	
10	Crop	Yam	Use of high seed rate	Assessment of Sprouting in Yam			Cultivation		

	Production		and costly	by cow dung slurry	Demonstration of propagation of turmeric planting materials through pro-tray		practices with use of natural farming in water melon and musk melon Sowing of turmeric and ginger rhizome in ortray technique		
11	Varietal Assessment	Tomato	Use local seed of tomato (Local collection	Varietal assessment of Tomato (Kashi Aman) in Bemetara District			Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops		
12	Varietal Assessment	Coriander	Low yield of local varieties/ Local collection	Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District			Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops		
13	Agril. Engineering	Chick pea	More seed rate in broadcasting, seed to seed distance is not maintained. Animals unused for sowing	Assessment of animal drawn five row chickpea planter on farmer's field	Demonstration on DSR planter cum FYM applicator machine for sowing of rice crop on farmer's field		Farm machinery & its maintenance Balance Use of fertilizer Processing and value addition Nursery Management		
14	Agril. Engineering	Chick pea	higher seed rate, more water requirement compare to flat bed sowing	Assessment of Ridge and furrow planter for chickpea sowing on farmer's field	Demonstration on soybean-pigeonpea intercropping broadbed sowing machine on farmer's field		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	31	
					Demonstration on broad bed sowing method using of Indira soya seed drill for soybean crop		Small scale processing and value addition Post Harvest Technology Formation and Management of SHGs		
					Demonstration on tractor operated round baler machine		Entrepreneurial development of farmers/youth		

							s Capacity building for ICT application Farm machinery, tools and implements		

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**
Plant Protection	1	1	-	-	2	-	-	-	-	**4**
Crop Production	2	2	2	-	-	-	-	-	-	**6**
Horticulture	-	-	-	-	6	-	-	-	-	**6**
Agril. Engineering	1	1	5	-	-	-	-	-	-	**7**
TOTAL	4	4	7	-	8	-	-	-	-	**23**

Abstract on the number of technologies to be assessed in respect of Livestock/Enterprises

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**

Details of On Farm Trial (OFT)

OFT-1 : Assessment of Tilapia Fish Farming in semi-biofloc fish tank

Crop / Enterprise	Fish	
Title of on farm trial	Assessment of Tilapia Fish Farming in semi-biofloc fish tank	
Problem diagnosed	Low fish Production in IMC/Tilapia Fish Farming in Fish Pond	
Farmers' Practices	Tilapia Fish Farming in Fish Pond	
Details of technologies selectedfor assessment	T_1	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 3 Nos/M3 (Farmer practice)
	T_2	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 200 Nos./M3 (Research Practice)
Source of technology	Source of technology	
Plot size	-	
No. of farmers	04	
Total cost	Rs. 20000/-	
Critical input	Fish Seed/Probiotics/Molases	
Performance indicators: (i) Technical- **yield (q/ ha)** (ii) Economic (iii) Social – **Employment generation**	Yield, ABW, Survival, FCR, B:C ratio	

OFT -2 : Assessment of growth promoter 'Raa fres- AQ' in maximizing fish growth and yield during winter

1	Crop / Enterprise	Fish
2	Title of on-farm trial	Assessment of growth promoter 'Raa fres- AQ' in maximizing fish growth and yield during winter
3	Problem diagnosed	Low yield from carp culture due to less growth during winter
4	Farming situation	Small to Medium pond

5	Production system and thematic area	Fish Production & Fish Pond Management	
6	Farmers' practices	Application of traditional feed only for fish body growth	
7	Details of technologies selected for assessment/refinement Treatments	T_1	No use of growth promoter in fish feed (Farmer Practice)
		T_2	Use of Growth promoter (Raa fres AQ @500g/1ton of feed as feed additive
8	Source of technology	CIFE, Mumbai (2000), Fishery Technology, Vol. 47, No (2) : 2010	
9	No. of animals	-	
10	No. of farmers	04	
11	Critical input	Growth promoter	
12	Cost of input	Rs. 4000/- per trial (Approx.)	
13	Total cost	Rs. 16000/-	
14	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	ABW, FCR, Yield, B:C ratio	

OFT -3 : : Assessment of thiomethoxam with lamda-cyhalothrin for stem fly and girdle beetle management

1	Crop / Enterprise	Soyabean	
2	Title of on-farm trial	Assessment of thiomethoxam with lamda-cyhalothrin for of stem fly and girdle beetle management in soyabean	
3	Problem diagnosed	Heavy loss due to severe infestation of stem fly and girdle beetle	
4	Farming situation	Irrigated (Kharif 2023)	
5	Production system and thematic area	IPM	
6	Farmers' practices	Use of cypermethin insecticide	
7	Details of technologies selected for assessment/refinement Treatments	T_1	use of Cypermethrin insecticide
		T_2	Seed treatment of Imidachloprid 48 FS @ 1.25g/kg seed, spraying of thiomethoxam 12.6% +lamda-cyhalothrin 9.5% ZC@125 ml/ha
8	Source of technology	NRCS, Indore 2018	
9	No. of farmers	4	
10	Critical input	Insecticide	
11	Cost of input	Rs. 2000/- Per Trial (Approx.)	
12	Total cost	Rs. 8000	
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	stem fly infected plant, girdle beetle infected plant, Yield, B:C Ratio	

OFT -4 : Assessment of insect pest management practices under natural farming against fruit borer in Tomato

1	Crop / Enterprise	Tomato	
2	Title of on-farm trial	Assessment of insect pest management practices under natural farming against fruit borer in Tomato.	
3	Problem diagnosed	Reduction of natural enemies due to indiscriminate use of insecticides.	
4	Farming situation	Irrigated (Kharif 2023)	
5	Production system and thematic area	Plant Protection (Natural Farming)	
6	Farmers' practices	Indiscriminate use of Chemical insecticides	
7	Details of technologies selected for assessment/refinement Treatments	T_1	Indiscriminate use of Chemical insecticides
		T_2	Beejamrit20 lit./100 kg seed, Jeevamrti@12.5 lit. + 250 Lit. water/ha (1st application after 21 DAS) after this in every 21 days apply jeevamrit@25 Lit./50 Lit./12.5 Lit. Respectively, Neemastra@500 Lit./ha, bramhastra@15-20Lit. +500 Lit water / ha, Fermented butter milk @ 15-20 Lit +500 Lit water / ha

8	Source of technology	RVSKVV, Gwalior	
9	No. of farmers	4	
10	Critical input	Different ingredients required for preparation of beejamrit,jeevamrit, neemastra, bramhastra etc.	
11	Cost of input	Rs. 600/- per trial (Approx.)	
12	Total cost	Rs. 3600/-	
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	No .of damaged fruits /plants, Yield , B:C ratio	

OFT -5 : Assessment of Chemical Weed management in Soybean

1	Crop / Enterprise	Soybean	
2	Title of on-farm trial	Assessment of Chemical Weed management in Soybean	
3	Problem diagnosed	Lower yield in Soybean due to heavy weed infestation	
4	Farming situation	Kharif (Rainfed/Irrigated)	
5	Production system and thematic area	Weed management	
6	Farmers' practices	No use of herbicides	
7	Details of technologies selected for assessment/refinement Treatments	T_1	One hand weeding at 30 DAS
		T_2	Fenoxaprop-p-ethyl @32-40 g a.i. / acre (2-3 leaf stage of weed)
		T_3	Quizalofop ethyle @16-20 g a.i. / acre (2-3 leaf stage of weed)
8	Source of technology	IGKV Raipur	
9	No. of farmers	05	
10	Critical input	Herbicide	
11	Cost of input	Rs. 600/- per trial (Approx.)	
12	Total cost	Rs. 3000/-	
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	Weed index, Yield q/ha, Net return, B:C ratio	

OFT -6 : Assessment of yield of Kodo millet (*Paspalum scorbiculatum* L.) under Natural Farming and conventional (Chemical) farming in Bemetara District

1	Crop / Enterprise	Kodo Millet	
2	Title of on-farm trial	Assessment of yield of Kodo millet (*Paspalum scorbiculatum* L.) under Natural Farming and conventional (Chemical) farming in Bemetara District	
3	Problem diagnosed	Injudicious use of chemical and soil deterioration	
4	Farming situation	Kharif (Rainfed/Irrigated)	
5	Production system and thematic area	Crop production (Natural farming)	
6	Farmers' practices	Conventional package and practices	
7	Details of technologies selected for assessment/refinement Treatments	T_1	20:20:10::N:P:K kg/ha
		T_2	Beejamrit20 lit./100 kg seed, Jeevamrti@12.5 lit. + 250 Lit. water/ha (1st application after 21 DAS) after this in every 21 days apply jeevamrit@25 Lit./50 Lit./12.5 Lit. Respectively, Neemastra@500 Lit./ha, bramhastra@15-20Lit. +500 Lit water / ha, Fermented butter milk @ 15-20 Lit +500 Lit water / ha
8	Source of technology	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar, Published by: DES, RVSKVV, Gwalior, MP (2022)	

9	No. of farmers	04
10	Critical input	Different ingredients used in Natural farming (Cow urine, Cow dung, Jaggery, Lime, Chickpea flour etc.)
11	Cost of input	4000
12	Total cost	-
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	Soil testing , Yield (q/ha), B: C ratio

OFT -7 : Assessment of Chemical Weed management in Chickpea

1	Crop / Enterprise	**Chickpea**	
2	Title of on-farm trial	Assessment of Chemical Weed management in Chickpea	
3	Problem diagnosed	Lower yield in Chickpea due to heavy weed infestation	
4	Farming situation	Rabi (Irrigated)	
5	Production system and thematic area	Weed management	
6	Farmers' practices	No use of post emergence herbicide	
7	Details of technologies selected for assessment/refinement Treatments	T_1	One hand weeding at 30 DAS
		T_2	Topramezone @ 19.4g a.i. Per Ha (20-25 DAS for Broad leaves weed)
8	Source of technology	IGKV Raipur	
9	No. of farmers	03	
10	Critical input	Herbicide	
11	Cost of input	Rs. 1000/- per trial. (Approx.)	
12	Total cost	Rs. 4000/-	
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	Weed index, Yield q/ha, Net return, B:C ratio	

OFT -8: Assessment of Different tools of Natural Farming in Tomato in Bemetara District

1	Crop / Enterprise	Tomato	
2	Title of on-farm trial	Assessment of different tools of Natural Farming in Tomato in Bemetara District	
3	Problem diagnosed	Soil deterioration due to excess use of chemicals	
4	Farming situation	Kharif (Rainfed/Irrigated)	
5	Production system and thematic area	Crop production (Natural Farming)	
6	Farmers' practices	Conventional package and practices	
7	Details of technologies selected for assessment/refinement Treatments	T_1	Farmer Practice
		T_2	Seed treatment by Beejamrit and application of Jeevamrit/Ghan jeevamrit
8	Source of technology	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar Published by: DES, RVSKVV, Gwalior, MP(2022)	
9	No. of farmers	04	
10	Critical input	Different ingredients use in natural farming (cow urine, cow dung, ortray etc.)	
11	Cost of input	Rs. 500/- per trial. (Approx.)	

12	Total cost	Rs. 2000/-
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	1. Soil testing , 2. Yield (q/ha), 3. B: C ratio

OFT -9: Assessment of Sprouting in Yam by cow dung slurry

1	Crop / Enterprise	Elephant Foot Yam	
2	Title of on-farm trial	Assessment of Sprouting in Yam by cow dung slurry	
3	Problem diagnosed	Use of high seed rate and costly seed	
4	Farming situation	Kharif (Rainfed/Irrigated)	
5	Production system and thematic area	Crop production (ITK)	
6	Farmers' practices	Conventional package and practices	
7	Details of technologies selected for assessment/refinement Treatments	T_1	Seed (100 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
		T_2	Seed (150 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
		T_3	Seed (200 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
8	Source of technology	Name of Book- Traditional Knowlegde in Agriculture, Published by: ICAR-ATARI, Jabalpur, MP (2020).	
9	No. of farmers	04	
10	Critical input	Cow dung, cow urine, chickpea flour etc.	
11	Cost of input	Rs. 500/- per trial. (Approx.)	
12	Total cost	Rs. 2000/-	
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	1. Soil testing , 2. Germination percentage (%), 3.Yield (q/ha), 4. B: C ratio	

OFT -10: Varietal assessment of Tomato (Kashi Aman) in Bemetara District

1	Crop / Enterprise	Tomato (Kashi Aman)	
2	Title of on-farm trial	Varietal assessment of Tomato (Kashi Aman) in Bemetara District	
3	Problem diagnosed	Use local seed of tomato (Local collection)	
4	Farming situation	Kharif (Rainfed/Irrigated)	
5	Production system and thematic area	Varietal evaluation	
6	Farmers' practices	Use Local seed of tomato (Local collection)	
7	Details of technologies selected for assessment/refinement Treatments	T_1	Farmer Practice
		T_2	Use of High yielding variety – Kashi Aman
8	Source of technology	Indian Institute of Vegetable Research (IIVR), Varanasi	
9	No. of farmers	04	
10	Critical input	Tomato (Kashi Aman) seed	
11	Cost of input	Rs. 1000/- per trial. (Approx.)	
12	Total cost	Rs. 4000/-	
13	Performance indicators Observation to be	1. Yield (q/ha), 2. B: C ratio	

	recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	

OFT -11: Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District

1	Crop / Enterprise	Coriander (Chhattisgarh Dhania -1)
2	Title of on-farm trial	Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District
3	Problem diagnosed	Low yield of local varieties/ Local collection
4	Farming situation	Rabi (Irrigated)
5	Production system and thematic area	Varietal evaluation
6	Farmers' practices	Use of local variety
7	Details of technologies selected for assessment/refinement Treatments	T_1 Farmer Practice T_2 Use of High yielding variety Chhattisgarh Dhania -1
8	Source of technology	IGKV, Raipur (C.G.)
9	No. of farmers	04
10	Critical input	Coriander (Chhattisgarh Dhania -1) seed
11	Cost of input	Rs. 1000/- per trial. (Approx.)
12	Total cost	Rs. 4000/-
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	1. Yield (q/ha), 2. B: C ratio

OFT -12 : Assessment of animal drawn five row chickpea planter on farmer's field

1	Crop / Enterprise	Chickpea crop
2	Title of on-farm trial	Assessment of animal drawn five row chickpea planter on farmer's field
3	Problem diagnosed	More seed rate in broadcasting, seed to seed distance is not maintained. Animals unused for sowing
4	Farming situation	Rabi – Irrigated
5	Production system and thematic area	Use of Improved Animal drawn farm implements / Utilization of Animal Energy (UAE)
6	Farmers' practices	Broadcasting
7	Details of technologies selected for assessment/refinement Treatments	T_1 Broadcasting sowing T_2 Animal drawn five row chickpea planter Sowing
8	Source of technology	IGKV Raipur
9	No. of farmers	4
10	Critical input	Animal drawn five row chickpea planter sowing machine
11	Cost of input	Rs. 400/- (Approx.)
12	Total cost	Rs. 2000/-
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	Field capacity (ha/h) , cost economic field efficiency %, crop yield (kg/ha)

OFT -13 : Assessment of Ridge and furrow planter for chickpea sowing on farmer's field

1	Crop / Enterprise	Chickpea crop	
2	Title of on-farm trial	Assessment of Ridge and furrow planter for chickpea sowing on farmer's field.	
3	Problem diagnosed	higher seed rate, more water requirement compare to flat bed sowing	
4	Farming situation	Rabi – Irrigated	
5	Production system and thematic area	Resources conservation technology	
6	Farmers' practices	Broadcasting	
7	Details of technologies selected for assessment/refinement Treatments	T_1	Seed cum fertilizer drill sowing
		T_2	Ridge and furrow planter sowing
		T_3	Broadcasting
8	Source of technology	IGKV Raipur	
9	No. of farmers	4	
10	Critical input	Ridge and furrow planter sowing machine	
11	Cost of input	400	
12	Total cost	2000	
13	Performance indicators Observation to be recorded **Daily Milk yield (L)** **Estrous cycle regularity** **Economics : B: C ratio** **Social: Farmers reaction & Feedback**	Field capacity, fuel consumption, cost economic field efficiency %, crop yield	

Detailed Information about OFT: 1-13

OFT-1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ **Fisheries** etc)	**Shri Toshan Kumar Thakur (Fisheries)**
Title of on-farm trial:	Assessment of Tilapia Fish Farming in semi-biofloc fish tank
Year/Season:	2023-24
Farming situation:	Small to medium tank
Problem diagnosis:	Low fish Production in IMC/Tilapia Fish Farming in Fish Pond
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-	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 3 Nos/M3 (Farmer practice)
T2 –Recommended Practice-	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 200 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 (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ **Fisheries** etc)	**Shri Toshan Kumar Thakur (Fisheries)**
Title of on-farm trial:	Assessment of growth promoter 'Raa fres- AQ' in maximizing fish growth and yield during winter
Year/Season:	2023-24
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-	No use of growth promoter in fish feed (Farmer Practice)

T2 –Recommended Practice-	Use of Growth promoter (Raa fres 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 (like Agronomy/Horticulture/ Soil Science/ **Plant Protection**/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr.(Smt.) Ekta Tamrakar, (Plant Protection)**
Title of on-farm trial:	Assessment of thiomethoxam with lamda-cyhalothrin for of stem fly and girdle beetle management in soyabean
Year/Season:	2023-24
Farming situation:	Irrigated (Kharif 2023)
Problem diagnosis:	Heavy loss due to severe infestation of stem fly and girdle beetle
Thematic area:	IPM
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-	Use of Cypermethrin insecticide
T2 –Recommended Practice-	Seed treatment of Imidachloprid 48 FS @ 1.25g/kg seed, spraying of thiomethoxam 12.6% +lamda-cyhalothrin 9.5% ZC@125 ml/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRCS, Indore 2018
Characteristics of technology:	-
Name of Crop/Enterprises:	Soyabean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ **Plant Protection**/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr.(Smt.) Ekta Tamrakar, (Plant Protection)**
Title of on-farm trial:	Assessment of insect pest management practices under natural

	farming against fruit borer in Tomato.
Year/Season:	2023-24
Farming situation:	Irrigated (Kharif 2023)
Problem diagnosis:	Reduction of natural enemies due to indiscriminate use of insecticides.
Thematic area:	Plant Protection (Natural Farming)
No of trials:	1.6
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of Chemical insecticides
T2 –Recommended Practice-	Beejamrit20 lit./100 kg seed, Jeevamrti@12.5 lit. + 250 Lit. water/ha (1st application after 21 DAS) after this in every 21 days apply jeevamrit@25 Lit./50 Lit./12.5 Lit. Respectively, Neemastra@500 Lit./ha, bramhastra@15-20Lit. +500 Lit water / ha, Fermented butter milk @ 15-20 Lit +500 Lit water / ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Name of Discipline (like **Agronomy**/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr. (Smt.) Pragya Pandey (Agronomy)**
Title of on-farm trial:	Assessment of Chemical Weed management in Soybean
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Lower yield in Soybean due to heavy 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-	One hand weeding at 30 DAS
T2 –Recommended Practice-	Fenoxaprop-p-ethyl @32-40 g a.i. / acre (2-3 leaf stage of weed)
T3- Recommended Practice-	Quizalofop ethyle @16-20 g a.i. / acre (2-3 leaf stage of weed)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean

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

OFT-6

Name of Discipline (like **Agronomy**/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr. (Smt.) Pragya Pandey (Agronomy)**
Title of on-farm trial:	Assessment of yield of Kodo millet (*Paspalum scorbiculatum* L.) under Natural Farming and conventional (Chemical) farming in Bemetara District
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Injudicious use of chemical and soil deterioration
Thematic area:	Crop production (Natural farming)
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-	20:20:10::N:P:K kg/ha
T2 –Recommended Practice-	Beejamrit20 lit./100 kg seed, Jeevamrti@12.5 lit. + 250 Lit. water/ha (1st application after 21 DAS) after this in every 21 days apply jeevamrit@25 Lit./50 Lit./12.5 Lit. Respectively, Neemastra@500 Lit./ha, bramhastra@15-20Lit. +500 Lit water / ha, Fermented butter milk @ 15-20 Lit +500 Lit water / ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar, Published by: DES, RVSKVV, Gwalior, MP (2022)
Characteristics of technology:	-
Name of Crop/Enterprises:	Kodo Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7

Name of Discipline (like **Agronomy**/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr. (Smt.) Pragya Pandey (Agronomy)**
Title of on-farm trial:	Assessment of Chemical Weed management in Chickpea
Year/Season:	2023-24
Farming situation:	Rabi (Irrigated)
Problem diagnosis:	Lower yield in Chickpea due to heavy weed infestation

Thematic area:	Weed Management
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One hand weeding at 30 DAS
T2 –Recommended Practice-	Topramezone @ 19.4g a.i. Per Ha (20-25 DAS for Broad leaves weed)
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	-

OFT-8

Name of Discipline (like **Agronomy**/**Horticulture**/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr. Chetna Banjare (Horticulture)**
Title of on-farm trial:	Assessment of different tools of Natural Farming in Tomato in Bemetara District
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Soil deterioration due to excess use of chemicals
Thematic area:	Crop production (Natural Farming)
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-	Farmer Practice
T2 –Recommended Practice-	Seed treatment by Beejamrit and application of Jeevamrit/Ghan jeevamrit
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar Published by: DES, RVSKVV, Gwalior, MP(2022)
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9

Name of Discipline (like Agronomy/**Horticulture**/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr. Chetna Banjare (Horticulture)**
Title of on-farm trial:	Assessment of Sprouting in Yam by cow dung slurry
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Use of high seed rate and costly seed
Thematic area:	Crop production (ITK)
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-	Seed (100 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
T2 –Recommended Practice-	Seed (150 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
T3- Recommended Practice-	Seed (200 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Name of Book- Traditional Knowlegde in Agriculture, Published by: ICAR-ATARI, Jabalpur, MP (2020).
Characteristics of technology:	-
Name of Crop/Enterprises:	Elephant Foot Yam
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Name of Discipline (like Agronomy/**Horticulture**/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr. Chetna Banjare (Horticulture)**
Title of on-farm trial:	Varietal assessment of Tomato (Kashi Aman) in Bemetara District
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Use local seed of tomato (Local collection)
Thematic area:	Varietal evaluation
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-	Farmer Practice
T2 –Recommended Practice-	Use of High yielding variety – Kashi Aman
T3- Recommended Practice-	-

Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indian Institute of Vegetable Research (IIVR), Varanasi
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato (Kashi Aman)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Name of Discipline (like Agronomy/**Horticulture**/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	**Dr. Chetna Banjare (Horticulture)**
Title of on-farm trial:	Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District
Year/Season:	2023-24
Farming situation:	Rabi (Irrigated)
Problem diagnosis:	Low yield of local varieties/ Local collection
Thematic area:	Varietal evaluation
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-	Farmer Practice
T2 –Recommended Practice-	Use of High yielding variety Chhattisgarh Dhania -1
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur (C.G.)
Characteristics of technology:	-
Name of Crop/Enterprises:	Coriander (Chhattisgarh Dhania -1)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/**Agri Engineering**/Animal Science/ Fisheries etc)	**Dr. Jitendra Kumar Joshi (Agri Engineering)**
Title of on-farm trial:	Assessment of animal drawn five row chickpea planter on farmer's field
Year/Season:	2023-24
Farming situation:	Rabi – Irrigated
Problem diagnosis:	More seed rate in broadcasting, seed to seed distance is not maintained. Animals unused for sowing
Thematic area:	Use of Improved Animal drawn farm implements / Utilization of Animal Energy (UAE)
No of trials:	05
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting sowing
T2 –Recommended Practice-	Animal drawn five row chickpea planter Sowing
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea crop
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/**Agri Engineering**/Animal Science/ Fisheries etc)	**Dr. Jitendra Kumar Joshi (Agri Engineering)**
Title of on-farm trial:	Assessment of Ridge and furrow planter for chickpea sowing on farmer's field.
Year/Season:	2023-24
Farming situation:	Rabi – Irrigated
Problem diagnosis:	Higher seed rate, more water requirement compare to flat bed sowing
Thematic area:	Resources conservation technology
No of trials:	05
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Seed cum fertilizer drill sowing
T2 –Recommended Practice-	Ridge and furrow planter sowing
T3- Recommended Practice-	Broadcasting

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

Information about Extension OFT: Nil

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: Nil

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and ortra 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	Fish	Fish Production	Composite fish farming	Fish Seed	2023-24	2	05	ABW, Yield, B:C ratio
2	Fish	Fish Pond Management	Fish feed Management	Vitamin and Mineral Premix	2023-24	2	05	ABW, Yield, B:C ratio
3	Paddy	Plant Protection	Demonstration of Fenpyroxymate 5EC @ 300ml /ha + Propiconazole 25 EC @300ml/ha against panicle mite in paddy crop.(Two application at booting and panicle initiation stage)	Pesticide recommended in trial	Kharif 2023	3.2	8	No. of healthy grains/ No. of discolored grains /No. of chaffy grains per panicle, Yield , B:C ratio
4	Brinjal	IPM	Pheromone trap@20/ha, use of neem product 3000 ppm @ 1L/ha, need based spray of insecticide	Pheromone lure, biopesticides	Rabi 2023	2.4	6	No. of damaged fruits / Plant, No. of insects/trap, Yield ,B:C ratio
5	Cotton	Weed management	Integrated Weed Management	Herbicide	Kharif 2023	1.6	04	Plant height, No. of balls per plant, Yield,, B:C ratio
6	Lathryrus	Crop production	Improved Utera cultivation of Lathyrus	Biofertilizer, NPK (19:19:19)	Rabi 2023	1.6	04	Plant height, No. of Pods per plant, Yield,, B:C ratio
7	Wheat	Crop production	Varietal assessment	Seed	Rabi 2023	1.6	04	Plant height, No. effective tillers, Yield, B:C ratio
8	Ginger	Crop Production	Raising of ginger seedlings in ortray methods	Seedlings	Kharif 2023	10	05	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
9	Turmeric	Crop Production	Raising of turmeric seedlings in ortray methods	Seedlings	Kharif 2023	10	05	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
10	Rice	Agricultural Engineering	Resources conservation technology	DSR Inclined plate planter cum FYM applicator machine	*Kharif* season, 2023	4	6	Fertilizer rate (Kg/ha), Organic Matter (%), Field capacity, fuel consumption, cost economic, field efficiency % Crop yield (kg/ha)
11	Soybean-pigeonpea	Agricultural Engineering	Resources conservation technology /Farm Mechanization	Soybean-pigeonpea intercropping broadbed sowing machine	*Kharif* season, 2023	4	6	Plant mortality %, Field capacity (ha/h) , fuel consumption (l/ha), cost economic field efficiency %, crop yield (kg/ha)
12	Soybean	Agricultural Engineering	Resources Conservation Technology	Indira soya seed drill machine	*Kharif* season, 2023	4	7	Plant mortality %, Field capacity, Fuel consumption, Cost economic, Field efficiency %, Crop yield
13	Paddy	Agricultural Engineering	Paddy Straw Management	Tractor operated round baler machine	*Rabi* season, 2023	4	8	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)

Extension and Training activities under FLDs

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

Details of FLD on Enterprises

Farm Implements

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

**Field efficiency, labour saving etc.*

Livestock Enterprises- Nil

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

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

Other Enterprises- Nil

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

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

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	*Season and year*	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeon pea	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Kharif-2013	20	35	Yield, B:C ratio No. of pods / plant plant height
2	Sesama	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Kharif-2013	10	20	Yield, B:C ratio No. of pods / plant plant height
3	Chickpea	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Rabi 2023-24	20	40	Yield, B:C ratio No. of pods / plant plant height
4	Field pea	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Rabi 2023-24	20	40	Yield, B:C ratio No. of pods / plant plant height
5	Lathyrus	CRP	Seed treatment, zero tillage method of sowing	Seed' pesticide	Rabi 2023-24	10	15	Yield, B:C ratio No. of pods / plant plant height
6	Mustard	CRP	Seed treatment, line sowing	Seed' pesticide	Rabi 2023-24	10	20	Yield, B:C ratio No. of pods / plant plant height
7	Green Gram	CRP	Seed treatment, line sowing	Seed' pesticide	Summer 2023-24	10	15	Yield, B:C ratio No. of pods / plant plant height
8	Black Gram	CRP	Seed treatment, line sowing	Seed' pesticide	Summer 2023-24	10	15	Yield, B:C ratio No. of pods / plant plant height

Extension and Training activities under CFLDs Oilseed and Pulses

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

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	05	05	20	05	25	20	05	25	**50**
Resource Conservation Technologies	05	05	20	05	25	20	05	25	**50**
Integrated Farming	05	05	20	05	25	20	05	25	**50**
Water management	05	05	20	05	25	20	05	25	**50**
Seed production	05	05	20	05	25	20	05	25	**50**
Integrated Crop Management	05	05	20	05	25	20	05	25	**50**
Total	**30**	**30**	120	30	150	120	30	150	300
II Horticulture									
a) Vegetable & fruit Crops	05	05	20	05	25	20	05	25	**50**
Off-season vegetables	05	05	20	05	25	20	05	25	**50**
Protective cultivation (Green Houses, Shade Net etc.)	05	05	20	05	25	20	05	25	**50**
Total	**15**	**15**	**60**	**15**	**75**	**60**	**15**	**75**	**150**
b) Fruits	05	05	20	05	25	20	05	25	**50**
Management of young plants/orchards	05	05	20	05	25	20	05	25	**50**
Total	**10**	**10**	**40**	**10**	**50**	**40**	**10**	**50**	**100**
c) Ornamental Plants	05	05	20	05	25	20	05	25	**50**
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
d) Plantation crops	05	05	20	05	25	20	05	25	**50**
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
e) Tuber crops	05	05	20	05	25	20	05	25	**50**
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
f) Spices	05	05	20	05	25	20	05	25	**50**
Production and Management technology	05	05	20	05	25	20	05	25	**50**
Total	**10**	**10**	**40**	**10**	**50**	**40**	**10**	**50**	**100**
g) Medicinal and Aromatic Plants	05	05	20	05	25	20	05	25	**50**

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production and management technology	05	05	20	05	25	20	05	25	**50**
Total	**10**	**10**	**40**	**10**	**50**	**40**	**10**	**50**	**100**
Grand total (Horticulture)	**90**	**90**	**360**	**90**	**450**	**360**	**90**	**450**	**900**
III Soil Health and Fertility Management-Nil									
Soil fertility management	-	-	-	-	-		-	-	-
Soil and Water Conservation	-	-	-	-	-		-	-	-
Integrated Nutrient Management	-	-	-	-	-		-	-	-
Production and use of organic inputs	-	-	-	-	-		-	-	-
Management of Problematic soils	-	-	-	-	-		-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-		-	-	-
Nutrient Use Efficiency	-	-	-	-	-		-	-	-
Soil and Water Testing	-	-	-	-	-		-	-	-
Total	-	-	-	-	-		-	-	-
IV Livestock Production and Management-Nil									
Dairy Management	-	-	-	-	-		-	-	-
Poultry Management	-	-	-	-	-		-	-	-
Disease Management	-	-	-	-	-		-	-	-
Feed management	-	-	-	-	-		-	-	-
Production of quality animal products	-	-	-	-	-		-	-	-
Total	-	-	-	-	-		-	-	-
V Home Science/Women empowerment-Nil									
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	-	-	-	-	-		-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies	-	-	-	- -			-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VI Agril. Engineering									
VII Plant Protection	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Disease Management	05	05	20	05	25	20	05	25	50
Bio-control of pests and diseases	05	05	20	05	25	20	05	25	50
Production of bio control agents and bio pesticides	05	05	20	05	25	20	05	25	50
Total	**25**	**25**	**100**	**25**	**125**	**100**	**25**	**125**	**250**
VIII Fisheries									
Integrated fish farming	05	05	20	05	25	20	05	25	50
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
IX Production of Inputs at site	05	05	20	05	25	20	05	25	50
Vermi-compost production	05	05	20	05	25	20	05	25	50
Organic manures production	05	05	20	05	25	20	05	25	50
Total	**15**	**15**	**60**	**15**	**75**	**60**	**15**	**75**	**150**
X Capacity Building and Group Dynamics	05	05	20	05	25	20	05	25	50
Leadership development	05	05	20	05	25	20	05	25	50
Group dynamics	05	05	20	05	25	20	05	25	50
Formation and Management of SHGs	05	05	20	05	25	20	05	25	50
Mobilization of social capital	05	05	20	05	25	20	05	25	50
Entrepreneurial development of farmers/youths	05	05	20	05	25	20	05	25	50
WTO and IPR issues	05	05	20	05	25	20	05	25	50
Total	**35**	**35**	**140**	**35**	**175**	**140**	**35**	**175**	**350**
XI Agro-	05	05	20	05	25	20	05	25	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
forestry									
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
XII Others (Pl. Specify)	05	05	20	05	25	20	05	25	50
Grand Total	**90**	**90**	**450**	**90**	**450**	**360**	**90**	**450**	**900**
(B) RURAL YOUTH									
Mushroom Production	05	05	20	05	25	20	05	25	50
Bee-keeping	05	05	20	05	25	20	05	25	50
Seed production	05	05	20	05	25	20	05	25	50
Planting material production	05	05	20	05	25	20	05	25	50
Vermi-culture	05	05	20	05	25	20	05	25	50
Value addition	05	05	20	05	25	20	05	25	50
Sheep and goat rearing	05	05	20	05	25	20	05	25	50
Para extension workers	05	05	20	05	25	20	05	25	50
TOTAL	**40**	**40**	**160**	**40**	**200**	**160**	**40**	**200**	**400**
© Extension Personnel									
Productivity enhancement in field crops	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Nutrient management	05	05	20	05	25	20	05	25	50
Protected cultivation technology	05	05	20	05	25	20	05	25	50
Group Dynamics and farmers organization	05	05	20	05	25	20	05	25	50
Capacity building for ICT application	05	05	20	05	25	20	05	25	50
Livestock feed and fodder production	05	05	20	05	25	20	05	25	50
Production and use of organic inputs	05	05	20	05	25	20	05	25	50
Gender mainstreaming through SHGs	05	05	20	05	25	20	05	25	50
Any other (Pl. Specify)	05	05	20	05	25	20	05	25	50
TOTAL	**50**	**50**	**200**	**50**	**250**	**200**	**50**	**250**	**500**

B) OFF Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	05	05	20	05	25	20	05	25	**50**
Resource Conservation Technologies	05	05	20	05	25	20	05	25	**50**
Integrated Farming	05	05	20	05	25	20	05	25	**50**
Water management	05	05	20	05	25	20	05	25	**50**
Seed production	05	05	20	05	25	20	05	25	**50**
Integrated Crop Management	05	05	20	05	25	20	05	25	**50**
Total	**30**	**30**	120	30	150	120	30	150	300
II Horticulture									
a) Vegetable & fruit Crops	05	05	20	05	25	20	05	25	**50**
Off-season vegetables	05	05	20	05	25	20	05	25	**50**
Protective cultivation (Green Houses, Shade Net etc.)	05	05	20	05	25	20	05	25	**50**
Total	**15**	**15**	**60**	**15**	**75**	**60**	**15**	**75**	**150**
b) Fruits	05	05	20	05	25	20	05	25	**50**
Management of young plants/orchards	05	05	20	05	25	20	05	25	**50**
Total	**10**	**10**	**40**	**10**	**50**	**40**	**10**	**50**	**100**
c) Ornamental Plants	05	05	20	05	25	20	05	25	**50**
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
d) Plantation crops	05	05	20	05	25	20	05	25	**50**
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
e) Tuber crops	05	05	20	05	25	20	05	25	**50**
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
f) Spices	05	05	20	05	25	20	05	25	**50**
Production and Management technology	05	05	20	05	25	20	05	25	**50**
Total	**10**	**10**	**40**	**10**	**50**	**40**	**10**	**50**	**100**
g) Medicinal and Aromatic Plants	05	05	20	05	25	20	05	25	**50**
Production and management technology	05	05	20	05	25	20	05	25	**50**
Total	**10**	**10**	**40**	**10**	**50**	**40**	**10**	**50**	**100**
Grand total (Horticulture)	**90**	**90**	**360**	**90**	**450**	**360**	**90**	**450**	**900**
III Soil Health and Fertility Management-Nil									
Soil fertility management	-	-	-	-	-		-	-	-
Soil and Water Conservation	-	-	-	-	-		-	-	-
Integrated Nutrient Management	-	-	-	-	-		-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production and use of organic inputs	-	-	-	-	-		-	-	-
Management of Problematic soils	-	-	-	-	-		-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-		-	-	-
Nutrient Use Efficiency	-	-	-	-	-		-	-	-
Soil and Water Testing	-	-	-	-	-		-	-	-
Total	-	-	-	-	-		-	-	-
IV Livestock Production and Management-Nil									
Dairy Management	-	-	-	-	-		-	-	-
Poultry Management	-	-	-	-	-		-	-	-
Disease Management	-	-	-	-	-		-	-	-
Feed management	-	-	-	-	-		-	-	-
Production of quality animal products	-	-	-	-	-		-	-	-
Total	-	-	-	-	-		-	-	-
V Home Science/Women empowerment-Nil									
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-		-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-		-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-		-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-		-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-		-	-	-
Value addition	-	-	-	-	-		-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-		-	-	-
Location specific drudgery reduction technologies	-	-	-	- -			-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VI Agril. Engineering									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
VII Plant Protection	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Disease Management	05	05	20	05	25	20	05	25	50
Bio-control of pests and diseases	05	05	20	05	25	20	05	25	50
Production of bio control agents and bio pesticides	05	05	20	05	25	20	05	25	50
Total	**25**	**25**	**100**	**25**	**125**	**100**	**25**	**125**	**250**
VIII Fisheries									
Integrated fish farming	05	05	20	05	25	20	05	25	50
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
IX Production of Inputs at site	05	05	20	05	25	20	05	25	50
Vermi-compost production	05	05	20	05	25	20	05	25	50
Organic manures production	05	05	20	05	25	20	05	25	50
Total	**15**	**15**	**60**	**15**	**75**	**60**	**15**	**75**	**150**
X Capacity Building and Group Dynamics	05	05	20	05	25	20	05	25	50
Leadership development	05	05	20	05	25	20	05	25	50
Group dynamics	05	05	20	05	25	20	05	25	50
Formation and Management of SHGs	05	05	20	05	25	20	05	25	50
Mobilization of social capital	05	05	20	05	25	20	05	25	50
Entrepreneurial development of farmers/youths	05	05	20	05	25	20	05	25	50
WTO and IPR issues	05	05	20	05	25	20	05	25	50
Total	**35**	**35**	**140**	**35**	**175**	**140**	**35**	**175**	**350**
XI Agro-forestry	05	05	20	05	25	20	05	25	50
Total	**05**	**05**	**20**	**05**	**25**	**20**	**05**	**25**	**50**
XII Others (Pl. Specify)	05	05	20	05	25	20	05	25	50
Grand Total	**90**	**90**	**450**	**90**	**450**	**360**	**90**	**450**	**900**
(B) RURAL YOUTH									
Mushroom Production	05	05	20	05	25	20	05	25	50
Bee-keeping	05	05	20	05	25	20	05	25	50
Seed production	05	05	20	05	25	20	05	25	50
Planting material	05	05	20	05	25	20	05	25	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
production									
Vermi-culture	05	05	20	05	25	20	05	25	50
Value addition	05	05	20	05	25	20	05	25	50
Sheep and goat rearing	05	05	20	05	25	20	05	25	50
Para extension workers	05	05	20	05	25	20	05	25	50
TOTAL	**40**	**40**	**160**	**40**	**200**	**160**	**40**	**200**	**400**
© Extension Personnel									
Productivity enhancement in field crops	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Nutrient management	05	05	20	05	25	20	05	25	50
Protected cultivation technology	05	05	20	05	25	20	05	25	50
Group Dynamics and farmers organization	05	05	20	05	25	20	05	25	50
Capacity building for ICT application	05	05	20	05	25	20	05	25	50
Livestock feed and fodder production	05	05	20	05	25	20	05	25	50
Production and use of organic inputs	05	05	20	05	25	20	05	25	50
Gender mainstreaming through SHGs	05	05	20	05	25	20	05	25	50
Any other (Pl. Specify)	05	05	20	05	25	20	05	25	50
TOTAL	**50**	**50**	**200**	**50**	**250**	**200**	**50**	**250**	**500**

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 – Agronomy										
Jan		a) Intercultural operations and t in Rabi crops b) Irrigation management in Rabi crops © Natural farming	1	5	5	**10**	8	7	**15**	25
Feb		c) Harvesting and storage of Rabi crops d) Sumer agronomic crop sowing techniques © Natural farming	1	5	5	**10**	8	7	**15**	25
Mar		e) Harvesting and storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming mportance of millets	1	5	5	**10**	8	7	**15**	25
April		a) 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		b) Storage of seeds (b)Seed hub (c) Harvesting of summer agronomic crops (d) Natural farming	1	5	5	**10**	8	7	**15**	25
Jun		c) Field preparation, sowing and fertilizer management of Kharif crops (b) Nursery management in Rice and DSR © Seed Treatment (d)	1	5	5	**10**	8	7	**15**	25

		Natural farming in Kodo								
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
Sep		a) Crop diversification (b) Natural farming © Seed hub	1	5	5	**10**	8	7	**15**	25
Oct		a) Field preparation, sowing and fertilizer management in Rabi crop (b) Silage making © Harvesting of Kharif crops (d) Natural farming in Wheat	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 ortray 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										
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**
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	1	05	03	08	12	5	17	**25**

		Farming Technology								
Dec		Processing & Value addition of Fish	1	05	03	08	12	5	17	**25**
Agri Engineering										
Jan		Farm machinery & its maintenance	6	10	2	12	5	3	8	**20**
Feb		Balance Use of fertilizer	6	10	2	12	5	3	8	**20**
March		Processing and value addition	12	20	4	24	10	6	16	**40**
April		Nursery Management	6	10	2	12	5	3	8	**20**
May		Installation and maintenance of micro irrigation systems	12	20	4	24	10	6	16	**40**
June		Use of Plastics in farming practices	6	10	2	12	5	3	8	**20**
July		Production of small tools and implements	12	20	4	24	10	6	16	**40**
July		Repair and maintenance of farm machinery and implements	12	20	4	24	10	6	16	**40**
Sept		Small scale processing and value addition	12	20	4	24	10	6	16	**40**
Sept		Post Harvest Technology	6	10	2	12	5	3	8	**20**
Oct		Formation and Management of SHGs	12	20	4	24	10	6	16	**40**
Oct		Entrepreneurial development of farmers/youths	6	10	2	12	5	3	8	**20**
Nov		Capacity building for ICT application	6	10	2	12	5	3	8	**20**
Dec		Farm machinery, tools and implements	12	20	4	24	10	6	16	**40**

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 – Agronomy										
Jan		Intercultural operations and t in Rabi crops Irrigation management in Rabi crops ©	1	5	5	**10**	8	7	**15**	25

		Natural farming								
Feb		Harvesting and storage of Rabi crops Sumer agronomic crop sowing techniques © Natural farming	1	5	5	**10**	8	7	**15**	25
Mar		Harvesting and storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming Importance of millets	1	5	5	**10**	8	7	**15**	25
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 (b) Nursery management in Rice and DSR © Seed Treatment (d) Natural farming in Kodo	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	1	5	5	**10**	8	7	**15**	25

		cultivation technique © Natural farming								
Sep		a) Crop diversification (b) Natural farming © Seed hub	1	5	5	**10**	8	7	**15**	25
Oct		a) Field preparation, sowing and fertilizer management in Rabi crop (b) Silage making © Harvesting of Kharif crops (d) Natural farming in Wheat	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 ortray 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										

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**
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 addition of Fish	1	05	03	08	12	5	17	**25**
Agri Engineering										
Jan		Farm machinery & its maintenance	6	10	2	12	5	3	8	**20**
Feb		Balance Use of fertilizer	6	10	2	12	5	3	8	**20**
March		Processing and value addition	12	20	4	24	10	6	16	**40**
April		Nursery Management	6	10	2	12	5	3	8	**20**
May		Installation and maintenance of micro irrigation systems	12	20	4	24	10	6	16	**40**
June		Use of Plastics in farming practices	6	10	2	12	5	3	8	**20**
July		Production of small tools and implements	12	20	4	24	10	6	16	**40**
July		Repair and maintenance of farm machinery and implements	12	20	4	24	10	6	16	**40**
Sept		Small scale processing and value addition	12	20	4	24	10	6	16	**40**
Sept		Post Harvest Technology	6	10	2	12	5	3	8	**20**
Oct		Formation and Management of SHGs	12	20	4	24	10	6	16	**40**
Oct		Entrepreneurial development of farmers/youths	6	10	2	12	5	3	8	**20**
Nov		Capacity building for ICT application	6	10	2	12	5	3	8	**20**
Dec		Farm machinery, tools and implements	12	20	4	24	10	6	16	**40**

Vocational Training Programme for Rural Youth:- 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 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 – Agronomy										
Jan		Intercultural operations and t in Rabi crops Irrigation management in Rabi crops © Natural farming	1	5	5	**10**	8	7	**15**	25
Feb		Harvesting and storage of Rabi crops Sumer agronomic crop sowing techniques © Natural farming	1	5	5	**10**	8	7	**15**	25
Mar		Harvesting and	1	5	5	**10**	8	7	**15**	25

		storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming mportance of millets								
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 (b) Nursery management in Rice and DSR © Seed Treatment (d) Natural farming in Kodo	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
Sep		a) Crop diversification (b) Natural farming © Seed hub	1	5	5	**10**	8	7	**15**	25
Oct		a) Field preparation, sowing and fertilizer management in Rabi crop (b) Silage making © Harvesting of Kharif crops (d) Natural farming in Wheat	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	1	5	5	**10**	8	7	**15**	25

		operations (b) Natural farming © millets cultivation								
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 ortray 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										
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**
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 addition of Fish	1	05	03	08	12	5	17	**25**
Agri Engineering										
Jan		Farm machinery & its maintenance	6	10	2	12	5	3	8	**20**
Feb		Balance Use of fertilizer	6	10	2	12	5	3	8	**20**
March		Processing and value addition	12	20	4	24	10	6	16	**40**
April		Nursery Management	6	10	2	12	5	3	8	**20**
May		Installation and maintenance of micro irrigation systems	12	20	4	24	10	6	16	**40**
June		Use of Plastics in farming practices	6	10	2	12	5	3	8	**20**
July		Production of small tools and implements	12	20	4	24	10	6	16	**40**
July		Repair and maintenance of farm machinery and implements	12	20	4	24	10	6	16	**40**
Sept		Small scale processing and value addition	12	20	4	24	10	6	16	**40**
Sept		Post Harvest Technology	6	10	2	12	5	3	8	**20**
Oct		Formation and Management of SHGs	12	20	4	24	10	6	16	**40**
Oct		Entrepreneurial	6	10	2	12	5	3	8	**20**

		development of farmers/youths								
Nov		Capacity building for ICT application	6	10	2	12	5	3	8	**20**
Dec		Farm machinery, tools and implements	12	20	4	24	10	6	16	**40**

iii) Sponsored Training Programmes - 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													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	**No. of activities**	**Farmers**			**Extension Officials**			**Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Field Day	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
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

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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 seed, planting material and technological products

Kharif 2023 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 2023-24 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

PLANTING MATERIALS

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)	Illahabadi safeda, 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 Programme at 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	Variety
1	Waste Decomposer	1000 Litre
2	Trichoderma	50 kg
3	Beejamrut	1000 Litre
4	Ghanjeevamrut	1000 Litre
5	Jeevamrut	200 Litre
6	Neemastra	50 Litre
7	Brahmastra	50 Litre

Bio-products - Nil

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

LIVESTOCK - Nil

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

Literature to be Developed / Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January to March 2023	January to March 2023	500
April to June 2023	April to June 2023	500
July to September 2023	July to September 2023	500
October to December 2023	October to December 2023	500

Details of Electronic Media to be Produced

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
3			

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

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

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Audio visual, method demonstration
2	Rural Youth	Method demonstration
3	In-service personnel	Power point presentation
4	Methodology for identifying OFTs/FLDs	Method demonstration
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	Baguli, Pendri	Nawagarh	30km
2	Sandi, Chetua, Bhand, Sankara	Berla	40km
3	Mauhabhata	Saja	45km

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

3.11. Activities of Soil and Water Testing Laboratory - Nil

Year of establishment:……..

List of equipments purchased:

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

Details of samples analyzed so far: - Nil

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

LINKAGES
Functional linkage with different organizations

Name of organization	Nature of linkage
CG state seed certification agency	Seed certification
CG Rajya beej & krishi vikash nigam 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
Other KVKs	Seed purchasing & seed selling & other work

Details of linkage with ATMA / NFSM
a**) Is ATMA implemented in your district** **Yes** / No

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

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Front line demonstration turmeric &ginger	Demonstration in farmers field

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

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 2023
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
Paddy	Kharif	Dubraj Selection-1	Scented, Medium slender grain	4
Paddy	Kharif	Badsah Bhog Sel -1	Scented, short bold grain	4
Paddy	Kharif	Swarna	Dwarf, MS grain, high yielding	4
Paddy	Kharif	Mahamaya	Dwarf, bold grain, high yielding	4
Pigeon Pea	Kharif	CG Arhar-1	Moderatly tolerant to wilt	4
Pigeon Pea	Kharif	Rajeev lochan	Drought tolerant, Phytopthera blight tolerant	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 2023
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
Coriander	Rabi	CG Dhaniya-1	High yield and aroma	4
	Rabi	Jawahar Dhaniya-1	Medium Duration, Moderatly Tolerant to PM	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 lemongerass, citronell, palmarosa, turmeric etc.	25	Essential Oil
Medicinal Plants	Propagation of Bantulsi, Bringraj, hadjod, Aparajita, Giloe, Aloevera, Banlehsun etc	300	Seeds and other vegetative propagule
Cultivation of Millets	Kodo, Ragi	4000	Seed production
Natural Farming	Preparation of Beejamrita, Jeevamrita, Ghanjeevamrita	50	Beejamrita, Jeevamrita, Ghanjeevamrita
Cultivation of Ginger	Seedlings preparation in protray	4000	Planting material
Cultivation of Turmeric	Seedlings preparation in protray	4000	Planting material

Senior Scientist & Head
KVK Bemetara (CG)