ANNUAL PROGRESS REPORT

January 2023 to December 2023

KVK-SATNA

5

SMS/

Year of sanction: 1993

1.1 Name of the Programme Coordinator with phone & mobile No.

Name		Telephone / Contact					
	Office	Mobile	Email				
Dr.Rajendra Singh Negi	Deendayal Research	9425887138	rsnegi007@reiffmail.com				
	Institute, Krishi Vigyan		_				
	Kendra Satna MP						

1.2 Staff Position on (31th Dec.2023) Sanctioned post Name of the Designation Discipline Pay Scale Date of Date of Contact Email ID Photo No. incumbent joining with present Joinin No. this KVK basic (Rs.) g (Year) 1 Sr. Scientist Dr.Rajendr SS&Head 37000-942588 rsnegi007@r Horticult 01.1 01.10.2ediffmail.co & Head a Singh 67000+G0.201 011 7138 ure Negi P 9000 2 Dr.Akhilesh akhileshjagre SMS/ Plant 15600-08.02. 08.02.2 9425942 **SMS** 123@gmail.c Scientist 1 Jagre Protectio 39100+G 2019 019 368 P 5400 n <u>om</u> 3 SMS/ SMS 15.02. 15.02.2 9407018 Dr. Ajay 15600ajaychourasiy Agronomy Scientist 2 Chourasiya 39100+G 2019 019 060 a09@gmail.c P 5400 <u>o</u> m 4 SMS/ Sh. Hemraj SMS Home 15600-15.10. 15.10.2 8770534 hemraj8691 Scientist 3 Diwevdi Science 39100+G 2020 020 764 @gmail.com P 5400

	Scientist 4									
6	Sr. Scientist	-	-	-	-	-	-	-	-	
	& Head									
7	Subject	-	-	-	-	-	-	-	-	
	Matter									
	Specialist									
8	Programme	Sh. Ashok	Lab. Techni.	Soil	9300-	08.10	08.10.	9425735	<u>Simpysharma</u>	Е
	Assistant	Sharma		Science	39100+	.2016	2016	157	01@gmail.co	
					GP 4200				<u>m</u>	
9	Computer	Er. Harendra	Computer	Computer	9300-	16	16.10.2	98074344	harendra1692	
	Programmer/	Kumar	Science	Science	39100+ GP	.10.20	020	57	@gmail.com	
	Programme				4200	20				
	Assistant									
10		G1 G				20	20.02	000105		
10	Farm	Sh.Satyam	Farm Manager	Agron	9300-	29	29.03.	998106		
	Manager	Chorahi		omy	39100+	.03.2	22	2311		Vi.
		, i			GP 4200	2				1
11	A	Cl. D. D		14.0014	0200	01.06	01.06.2	0.40720		0

10	Farm Manager	Sh.Satyam Chorahi	Farm Manager	Agron omy	9300- 39100+ GP 4200	.03.2	29.03. 22	998106		l li
11	Accountant / superintenden t	Sh.R.P. Pandey	Accountant	M.COM	9300- 39100+ GP 4200	01.06. 2014	01.06.2 014	940728 8631	-	- 100
12	Jr.	Sh.A.K.Sin	Stenographer	MA,	5200-	01.12.	01.12.1	9425887	-	

	Stenographer / Comp. Operator	gh		PGDCA	20200+G P 2400	1993	993	328		
13	Driver	-	-	-	-	-	-	-	-	-
14	Driver	-	-	-		-	-	-	-	-
					3					

15	Supporting staff	Sh.V.Singh	Agronomy	B.A, MSC	4440- 7440+GP 1300	01.05. 1994	01.05.1 994	9755086 164	-	-
		Sh.K.Pathak	Animal Science	B.A	4440- 7440+GP 1300	01.04. 1995	01.04.1 995	9685538 740	-	
	Supporting staff	Sh. R. L. Baheliya	Cook	5 th	4440- 7440+GP 1300	01.04. 1996	01.04.1 996	-	-	9
	Supporting staff	Sh.B.G.Josh i	Horticulture	B.A	4440- 7440+GP 1300	25.08. 1996	25.08.1 996	9685125 113		8
	Supporting staff	Smt. Rita Singh	Jr. Clerk	MA, B.Ed	5200- 20200 +GP 2000	07.09. 1996	07.09.1 996	8707021 662		

1.3 Total land with KVK (in ha): 25.20

S. No.	Item	Area (ha)
1	Under Buildings	1.8
2	Under Demonstration Units	0.43
3	Under Crops	12.6
4	Orchard/Agro-forestry	1.3
5	Others (specify)	9.07
Total		25.20

1.4 Infrastructural Development: A) Buildings

S.	Name of building	Source of		Stage				
No.		funding		Complete	!		Incomp	lete
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	1998	500				
2	Farmers Hostel	ICAR	2003	300				
3	Staff Quarters (6)	ICAR	2005	440				
4	Demonstration Units (2)	ICAR						
5	Solar Fencing	Mandi Board	2023	15000m	40 lakh			
6	Rain Water harvesting system	ICAR	2018	11526				
7	Threshing floor	ICAR		-				
8	Farm godown	ICAR		67.5				

B) Vehicles

Type of vehicle	Year of purchase		Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2024		8.7 lakh	10.8 hr.	Working
Motor Cycle 2	2008	7	46000	12885	Working
Bolero(Jeep)	2018		9 lakh	139253	Working
Other (Pl. specify)					

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Xerox machine	2016	69165	Working
Air conditioner -4	2008,2009,2016,2023	109079	Working
TV	2021	93600	Good Condition
Projector	2023	32627	Good Condition
Power generator	2020	380000	Good Condition

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

KVK Name	Date of SAC meeting 2023	No. of SAC members (only) attended	Major action points*		
Satna	09.02.2024	54	 Climate resilient technology Promotion of millets Crop diversification Create awareness and promotion of natural Farming 		

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	Description
	system/enterprise	
1	AES – 1	Lands are sloppy and undulating topography, sils are shallow in depth, poor water holding capacity, Soil
		pH ranges from 7.0-7.5 Organic carbon 0.20- 45%, Available nutrients status shows low nitrogen, very
		low to low phosphorus and medium potassium. Boron and zinc micronutrients deficient soils.
2	AES - 2	Medium water holding capacity and optimum drainage, Soil pH ranges from 7.2 to 7.8 organic carbon
		0.40 - 0.60 %, available nutrients status shows low to medium nitrogen, low to medium phosphorus and
		medium to high potassium, boron and zinc micronutrients deficient soils
3	AES-3	High water holding capacity, poor drainage capacity, Soil pH ranges from 7.1 to 8.2, organic carbon 0.45-
		0.65%, available nutrients status shows low to medium nitrogen, low phosphorus and very high
		potassium and also high in calcium and magnesium, boron and zinc micronutrients deficient soils

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

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Lands are sloppy and undulating topography, sils are shallow in depth, poor water holding capacity, Soil
		pH ranges from 7.0-7.5 Organic carbon 0.20- 45%, Available nutrients status shows low nitrogen, very
		low to low phosphorus and medium potassium. Boron and zinc micronutrients deficient soils.
2	AES - 2	Medium water holding capacity and optimum drainage, Soil pH ranges from 7.2 to 7.8 organic carbon
		0.40 - 0.60 %, available nutrients status shows low to medium nitrogen, low to medium phosphorus and
		medium to high potassium, boron and zinc micronutrients deficient soils
3	AES-3	High water holding capacity, poor drainage capacity, Soil pH ranges from 7.1 to 8.2, organic carbon 0.45-
		0.65%, available nutrients status shows low to medium nitrogen, low phosphorus and very high
		potassium and also high in calcium and magnesium, boron and zinc micronutrients deficient soils

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

Strength	Weakness	Opportunities	Threats
 Less use of chemical fertilizers Good production of Nutri cereals due suitable agro ecological situation. Sloppy lands provide good potential for growing cash crop like vegetables during rainy season. Easily Availability of man power Abundance of available minor forest produce 	 Soil erosion due to sloppy lands Soils are shallow and poor in fertility Reluctance of farmers towards adoption of modern agricultural technologies. Insufficient government credit institution and its linkage with farming community Lack of organized market channel 	 Scope of promotion of organic and natural farming Promotion of Horticultural crops especially minor fruits like, Aonla, Bael, ber and chirojee Favorable conditions for cultivation of medicinal plants. Opportunity to promote micro irrigation technology during the drought and dry spell. Higher production potential for growing rainy season vegetables(off season tomatoes and chillies) Good scope for establishing processing units for value addition of minor forest produce Good scope for goat rearing due to forest area 	 Agriculture is highly vulnerable to climate change Heavy and long spell of rains cause soil erosion Frost during winther month cause crop loss particularly to Pigeon pea and mustard Migration of farm families in to the urban areas. Crop damage by wild animal Increasing trend of land degradation due to dependence of people of forests

AES-2 (name)

	Strength	Weakness Opportunities Threa		Threats
•	Soil and climatic conditions are favourable for raising	Low erratic and uncertain rainfall and its skewed distribution affect the crop	Ample scope exist for opportunities for agro processing units	Over stress on groundwater and faster depletion of
	varied crops.	production.	• Scope for small agri business entrepreneurs in custom hiring	ground water

 wide range of crops cereals ,pulses and oilseeds are cultivated A well establish warehousing system 	 Shortage of green fodder Lack of knowledge among the dairy farmers on scientific rearing of livestock Inadequate grazing facilities 	services. due to non availability of labour	 Deterioration of soil health Over use of chemical fertilizers and depletion of
due to closure proximity to district head quarter.			organic matterOver dependence of farmers on hybrid
			seeds, highly vunlenerable to climate change.
			 Declining trend of net sown area due to urbanization

AES-3 (name)

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	7. 42
Forest	2.04
Waste Land	0.41
Other than cultivated area	0.26
Cultivable waste and alkaline land	0.23
Pastures	0.07
Bushes	-
Current Fallow	0.76
Other Fallow	0.12
Agricultural Land	
Area Sown	3.41
Kharif	2.54
Rabi	2.86
Zaid	0.26
Cropping Intensity	176.90 %

Irrigated Area with Different Sources:

IIIIgate	irrigated Area with Different Sources.			
S. No.	Description	Area (ha)		
1	Canal	5.872		
2	Well	38.075		
3	Tube well	72.111		
4	Ponds	3.66		
5	Others	19 104		

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Coarse Red Soils	Poor water holding capacity, Soil pH ranges from 7.0-7.5 Organic carbon	21.34
		0.20- 45%, Available nutrients status shows low nitrogen, very low to low	
		phosphorus and medium potassium. Boron and zinc micronutrients deficient	
		soils.	
2	Mixed Red and Black soils	Medium water holding capacity and optimum drainage	42.43
		Soil pH ranges from 7.2 to 7.8 organic carbon 0.40 – 0.60 %, available	
		nutrients status shows low to medium nitrogen, low to medium phosphorus	
		and medium to high potassium, boron and zinc micronutrients deficient soils	
3	Black soils	High water holding capacity, poor drainage capacity, Soil pH ranges from	36.23
		7.1 to 8.2, organic carbon 0.45-0.65%, available nutrients status shows low	
		to medium nitrogen, low phosphorus and very high potassium and also high	
		in calcium and magnesium, boron and zinc micronutrients deficient soils	

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

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	226.20	1173.79	44.76
2	Pigonpea	8.70	6.02	6.9
3	Blackgram	50.20	46.25	9.21
4	Green Gram	2.5	1.53	6.1
5	Soyabean	2.8	2.05	7.34
6	Sesame	11.90	8.9	7.5
7	Wheat	319.36	1373.26	43.0
8	Barley	1.73	5.0	29.0
9	Chickpea	21.49	39.98	18.6
10	Lentil	6.03	7.84	13.0
11	Mustered	13.86	16.64	12.0

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (⁰ C)		
		Maximum	Minimum	
Jan, 2023	5.2	19.8	9	
Feb, 2023	16.4	23.6	10.6	
Mar, 2023	0.0	30.2	11	
Apr, 2023	0.0	34.7	21.7	
May, 2023	4.8	38.2	25.2	
Jun, 2023	28.0	38.6	28.4	
July, 2023	261	33.5	26.9	
Aug., 2023	210	32.2	25.9	
Sept., 2023	203.3	32.5	24.4	
Oct. 2023	25.8	32.5	19.8	
Nov. 2023	17.0	28	14.7	
Dec. 2023	0.0	22.7	9.6	

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	579903	608.90 MT.	0.75 - 125 liter per day
Buffalo	224464	392.81 MT.	1.5 - 2.0 liter per day
Sheep	•	•	·
Crossbred/ Indigenous	19005	MT	Kg
Goats	270633	100.13 MT	0.25 - 0.5 liter per Day
Pigs Crossbred/ Indigenous	4231		
Rabbits			
Poultry	·	•	•

Hens	42678	-	120 eggs/ bird/yr
Turkey and others			-
Category	Area	Production	Productivity
Fish	45 (ha),	540.Q/ month	12 Q/ ha.

Details of Operational area / Villages (2023).

Sl.	Tehsil	Name of the block	Name of the	Major crops &	Major problem identified	Identified Thrust
No.			village	enterprises		Areas
		Majhgawan	Baka	Rice, Wheat and	Low productivity of crops	Crop, Diversificati
			Piparawan	Mustard	Use of long duration varieties	on
			Baruwa		Imbalance use of fertilizers	Promotion of
			Tikara Lotni		Heavy weed infestation	Horticultural
1	Majhgawan		Tikara Botin		High incidence of gundhi bug	crops,Water
					, leaf folder, hopper, False	Conservation and
					smut	Management
			Moisture stress during crop			
					growth period	

Priority / T	hrust areas							
S. No.	Particulars							
1.	Enhancing the productivity and profitability of farming							
2.	Water Conservation and Management							
3.	Seed replacement- use of high yielding varieties tolerant to biotic and abiotic factors							
4.	Promotion of Integrated farming system							
5.	Crop Diversification							
6.	Frost and Drought management							
7.	Promotion of Horticultural crops							
8.	Utilization of Kharif and Rabi fallow lands							
9.	Livestock up gradation and Management							
10.	Employment generation for rural youths through agri. enterprises							
11.	Strengthening of marketing network							
	Crop production							
12.	Seed replacement- use of high yielding tolerant to biotic and abiotic factors							
13.	Seed treatment							
14.	Sowing technique							
15.	Direct seeding in paddy							
16.	Alternate cropping system							
17.	Promotion of Integrated farming system							
18.	Seed production through group approach							
19.	Water Management in wheat							
20.	Frost and Drought management							
21.	Rain water harvesting for recycling and ground water recharge							
22.	In-situ moisture conservation through better agronomic practices							
23.	Weed Management in Kharif crops (Rice, Blackgram, Redgram and Soybean)							
24.	Nutrient management in Kharif crops (Rice, soybean, sesame, mustard, blackgram, and redgram)							
25.	Nutrient management in Rabi crops (Wheat, mustard, lentil and gram							
26.	Drudgery reduction - Use of improved agriculture implements and tools							

27.	Wilt and Pod borer management in gram and redgram
28.	Safe seed and grain storage
29.	Diversification of crops
	Horticulture
30.	Promotion of Horticultural crops
31.	Improved varieties of vegetables and spices
32.	Nursery Management in vegetables and fruit plants
33.	Layout and planting technique in horticultural crops
34.	Nutrients Management in onion
35.	Wasteland Development through fruit culture
36.	Disease and insect pest management in onion
37.	Disease and insect pest management in cucurbits
38.	Disease and insect pest management in tomato & chillies
39.	Management of early shoot and fruit borer in tomato and brinjal
40.	Protective cultivation
41.	Water saving methods- use of sprinkler and drip irrigation
	Livestock
42.	Livestock up gradation
43.	Improvement of fat and milk production in cows
44.	Introduction of new breeds in goat and poultry
45.	Management of disease in cows and buffaloes
46.	Control measures for ecto and endo parasites in cattle
	Extension
47.	Strengthening of marketing network
48.	Timely inputs, services and advisory to the farming community
49.	Promotion of group organization
50.	Linkage development
51.	Employment generation for rural youths

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

Ol	FT	FLD and CFLD		
1		2		
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers	
25	241	22	245	

Tra	ining	Extension Activities		
	3	4		
Number of Courses	Number of Participants	Number of activities	Number of participants	
87	2018	1603	43638	

Seed Production (Qtl.)	Planting material (Nos.)
111.84	459566

B. Abstract of interventions undertaken

S	Thrust	Crop/	Identified			Interve	entions		
N o	area	Enterpri se	Problem	Title of OFT	Titl e of FLD	Title of Training	Title of training for extension personnel	Extensio n activities	Supply of seeds, planting materials etc.
1	Integra ted nutrient manage ment	Bitter gourd	Productivity of bitter gourd is adversely affected by micronutrient deficiencies	Assessmen t of foliar application of micronutrie nts on Yield and quality of	-	Improved Production and management practices in Bittergourd cutlivation	Recent technologies in high valued horticultural crops for enhancing farmers income.	Field day Krishak Sangosthi Group meeting Kisan Mobile advisory	Improved
2	Chemic al free Natural Farmin g	Tomato	Increasing cost of inputs and decreasing soil fertility status	Bitter gourd.	Demonstrati on of Chemical free Natural farming practices in tomato.	Improved production and management practices in Kharif tomato production	Recent technologies in high valued horticultural crops for enhancing farmers income.	Field day Krishak Sangosthi Group meeting Kisan Mobile advisory	variety Seed Microbial formulatio n Gan jeevamrit, Liquid Gan jeevamrit, Beejamrit, Biopestici de, Improved variety
3	Chemi cal Free Natural Farmin g	Potato	Farmers generally use locally available tubers as planting material, which is not suitable for processing purpose Increasing cost of inputs and decreasing soil fertility status .Indiscrimina te use of inorganic fertilizers has brought threat to soil health in respect of physical,	Assessmen t of processing varieties of potato for their growth and yield parameters in Satna	Demonstrat ion of Chemical free Natural farming practices in Potato.	Improved production and management practices in onion and potato	Natural Farming in Horticultrual Crops	Field day Krishak Sangosthi Group meeting Kisan	seed Microbial formulatio n Gan jeevamrit, Liquid Gan jeevamrit, Beejamrit, Biopestici de, Improved variety seed

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			biological properties of soil.					
4	Crop Diversi fication and intensif ication	Cabbage	Low returns from Cabbage due to market price fluctuations.		Demonstrat ion of vegetable intercroppin g (Cabbage +Pea) for ensuring higher returns under Okra- Cabbage- Onion cropping sequence.		Field day Krishak Sangosthi Group meeting Kisan Mobile advisory	Improved Variety seeds
	Chemic al free natural farming	Onion	The cost of inorganic fertilizers is Increasing enormously to the extent that they are out of reach of small and marginal farmers.	Assessment of natural farming practices in Onion		Improved production and management practices in onion and potato cultivation	Field day Krishak Sangosthi Group meeting Kisan Mobile advisory	Microbial formulation Gan jeevamrit, Liquid Gan jeevamrit, Beejamrit, Biopesticide, Improved variety seed

Technologies assessed

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

Thematic areas	Cereal s	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTA L
Varietal Evaluation	-	-	-	-	2	-	-	-	-	2
Natural Farming		1	2	-	2	-	-	-	-	5
Integrated Nutrient Management	1		-	-	1	-	-	-	-	2
Integrated farming system	1		-	-	-	-	-	-	-	1
Integrated pest management	1	1	2	-	1	-	-	-	-	5
Value addition	-	-	-	-	-	2	-	-	-	2
Nutritional security	-	-	-	-	1	-	-	-	-	1
Extension management	1	-	-	-	-	-	-	-	-	1
TOTAL	4	2	4	0	7	2	0	0	0	19

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Breed evolution	-	1	-	-	-	-	-	1

Feed management	1	-	-	-	-	-	-	1
Disease management	1	-	-	-	-	-	-	1
TOTAL	2	1	-	-	-	-	-	3

Detailed Information about OFT-1 Agronomy

Name of Discipline	Agronomy			
Title of on-farm trial:	Assessment of Integrated Weed Management technology for			
	management of weeds in Kodon millet			
Year/Season:	Kharif 2023-24			
Farming situation:	Rainfed			
Problem diagnosis:	Yield loss upto 30 % due to heavy infestation of weeds			
Thematic area:	Weed Management			
No of trials:	10			
No. of farmers involved	10			
Type of OFT (Assessment/ Refinement):	Assessment			
Details of technology selected for assessment/ re	finement:			
T1 – Farmers Practice-	No use of weedicide for weed management			
T2 -Recommended Practice-	Bensulfuron ethyl 0.6 + Pretilachlor 6.0 G at 0.33 kg ha-			
	(within 3 DAS) fb one inter-cultivation at 25-30 DAS			
T3- Recommended Practice-	Bispyribac sodium 10 SC 0.01 lit/ha (within 15-20 DAS) fb			
	one inter-cultivation at 35-40 DAS			
Date of sowing:	05-06 July 2023			
Date of harvesting:	29-30 Oct 2023			
Source of technology:	ICAR-DWR, Jabalpur (2020)			
Characteristics of technology:	Integration of chemical weed management along with hand			
	weeding minimizes the weeds infestation, there by increases			
	the yield			
Name of Crop/Enterprises:	Kodo millet			
Recommendations for Farmers	Bensulfuron ethyl 0.6% + Pretilachlor 6.0% G at 0.33 kg			
	ha ⁻¹ (within 3 DAS) fb one inter-cultivation at 25-30 DAS			
	and Bispyribac sodium 10 SC 0.01 or 0.015 kg/ha (within 15-			
	20 DAS) fb one inter-cultivation at 35-40 DAS options were			
	found to be the feasible option due to control of the broad			
	spectrum of weeds more efficiently and thereby increasing			
	the grain, straw yield and economics of kodo millet.			

Recommendations for Deptt. Personnel	Herbicide weed control appears to be the viable measure to
	reduce a wide variety of weeds in a short time and
	economically.
Feedback	-

$\label{eq:Result:Economic Performance of OFT)} \textbf{Result:} (\textbf{Economic Performance of OFT})$

Details of technology	Paramete	Unit of	Result	Average	Average	Average	Benefit-Cost
	r Name	Param		Cost of		Net	Ratio (Gross
		eter		cultivation	Return	Return	Return /
				(Rs/ha)	(Rs/ha)	(Rs/ha)	Gross Cost)
T1-No use of	Grain	q./ha	7.86	23440	30218	6778	1.29
weedicide	yield						
T2-Bensulfuron	Grain	q./ha	18.74	25340	72086	46746	2.84
ethyl 0.6 +	yield						
Pretilachlor 6.0 G at							
0.33 kg ha ⁻¹ (within 3							
DAS) fb one inter-							
cultivation at 25-30							
DAS							
T3-Bispyribac	Grain	q./ha	18.20	25040	69997	44957	2.80
sodium 10 SC 0.01	yield						
or 0.015 kg/ha							
(within 15-20 DAS)							
fb one inter-							
cultivation at 35-40							
DAS							

Detailed Information about OFT-2 Agronomy

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Integrated Farming System Module for
· ·	higher and sustainable income under Rice – wheat cropping
	system
Year/Season:	Kharif, Rabi & zaid 2022-23
Farming situation:	Irrigated
Problem diagnosis:	80.68 % of farmers in Satna district are small and marginal

	T
	farmers possessing only 42.86 % of the total operational
	land. Rice- wheat cropping system followed by majority of
	small and marginal famers has failed to provide sufficient
	income to farm families.
Thematic area:	Integrated Farming System
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ re	finement:
T1 – Farmers Practice-	Rice- Wheat cropping system
T2 –Recommended Practice-	One ha integrated Farming System (IFS) model comprising
	of cropping systems (Rice-Wheat-Green gram) in 0.4 ha +
	Vegetables (Tomato-Cauliflower-Cowpea, Cowpea-Tomato-
	Okra, Chillies-Onion-Coriander, Okra-Pea-Bottle guard) in
	0.4 ha + Dairy (1 cow and 1 buffalo) including vermicompost
	unit in 0.2 ha
T3- Recommended Practice-	
Date of sowing:	03-05 July 2022
Date of harvesting:	15-20 June 2023
Source of technology:	IIFSR, Jhansi (UP)
Characteristics of technology:	It is an intensive farming model involving more than 2
	enterprises to achieve economic & sustained agricultural
	production to meet diverse requirement of farm household
	while preserving the resource base & maintain high
	environmental quality.
	Taken care of soil fertility and heat, more economic yield
	per unit are reduced cost of production, multiple income
	source, energy saving and recycling of resources.
Name of Crop/Enterprises:	Field Crops + Vegetables + Livestock
Recommendations for Farmers	Integrated Farming System Module was found suitable for
	higher and sustainable income under Rice – wheat cropping
	system
Recommendations for Deptt. Personnel	Integrated Farming System Module was found suitable for
-	higher and sustainable income under Rice – wheat cropping

	system
Feedback	-

$\label{eq:Result:Economic Performance of OFT)} \textbf{Result:} (\textbf{Economic Performance of OFT})$

Details of	Paramete	Unit of	Result	Average	Average	Average	Benefit-Cost
technology	r Name	Paramet		Cost of	Gross	Net Return	Ratio (Gross
		er		cultivation	Return	(Rs/ha)	Return /
				(Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers	Yield	q/ha	87.02	71004	181084	110080	2.55
Practice)							
T2(Recommended	Yield	q/ha	347.47	141117	427596	286478	3.03
Practice)							

Detailed Information about OFT-3 Agronomy

Name of Discipline	Agronomy				
Title of on-farm trial:	Assessment of Integrated Farming System Module for				
	higher and sustainable income under Rice – wheat cropping				
	system				
Year/Season:	Kharif, Rabi & Zaid 2023-24				
Farming situation:	Irrigated				
Problem diagnosis:	80.68 % of farmers in Satna district are small and marginal				
	farmers possessing only 42.86 % of the total operational				
	land. Rice- wheat cropping system followed by majority of				
	small and marginal famers has failed to provide sufficient				
	income to farm families.				
Thematic area:	Integrated Farming System				
No of trials:	05				
No. of farmers involved	05				
Type of OFT (Assessment/ Refinement):	Assessment				
Details of technology selected for assessment/ re	finement:				
T1 – Farmers Practice-	Rice- Wheat cropping system				
T2 -Recommended Practice-	One ha integrated Farming System (IFS) model comprising				
	of cropping systems (rice-wheat-greengram) in 0.4 ha +				
	Vegetables (Tomato, Brinjal, Potato, Cabbage, Cauliflower,				

	okra, peas, spinach, Coriander, Fenugreek, Green chilies,
	Onion) in 0.4 ha + Dairy (1 cow, 1 buffalo) including
	vermicompost unit in 0.2 ha
T3- Recommended Practice-	-
Date of sowing:	05-07 July 2023
Date of harvesting:	
Source of technology:	IIFSR, Jhansi (UP)
Characteristics of technology:	It is an intensive farming model involving more than 2 enterprises to achieve economic & sustained agricultural production to meet diverse requirement of farm household while preserving the resource base & maintain high environmental quality. Taken care of soil fertility and heat, more economic yield per unit are reduced cost of production, multiple income source, energy saving and recycling of resources.
Name of Crop/Enterprises:	Field Crop + Vegetables + Livestock
Recommendations for Farmers	•
Recommendations for Deptt. Personnel	-
Feedback	-

Details of	Paramete	Unit of	Result	Average	Average	Average	Benefit-Cost
technology	r Name	Paramet		Cost of	Gross	Net Return	Ratio (Gross
		er		cultivatio	Return	(Rs/ha)	Return /
				n (Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							
T2(Recommended	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							
T3(Recommended	-	-	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							

Detailed Information about OFT-4 Agronomy

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming practices on growth and
	yield contributing attributes in Mustard
Year/Season:	Rabi 2022-23

Farming situation:	Rainfed
Problem diagnosis:	Indiscriminate use of inorganic fertilizers has brought threat
	to soil health in respect of physical, chemical and biological
	properties of soil.
Thematic area:	Natural Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment	t/ refinement:
T1 – Farmers Practice-	Seed treatment with Carboxin+ thiram @ 2 g/kg seed,
	Application of NPKS (32:16:12:8) Kg/acre, Application of
	Pendimethalin 38.7 % CS @ 700 ml/acre PE for weed
	control and application of Thiamethoxam @ 100 g/acre for
	aphid control
T2 –Recommended Practice-	Seed treatment with Beejamrit @ 20 ml/kg seed, Jeevamrit
	(Soil application of 200 kg /acre Ghan Jeevamrit before cum
	up irrigation + Taral Jeevamrit @ 500 litre/acre at cum-up
	irrigation + Four foliar application of liquid Jeevamrit @ 85
	litre/acre at 21 days interval each spray), Straw mulching
	for weed management and moisture conservation) and two
	foliar application of Neemastra @ 12 litre/acre for aphid
	management.
T3- Recommended Practice-	-
Date of sowing:	15/10/2022
Date of harvesting:	30/03/2023
Source of technology:	Gurukul Natural Farming Farm, Kurukshetra (Haryana)
	(2019)
Characteristics of technology:	Jeevamrit, a promising liquid manure which act as a good
	soil tonic, enhances the soil physical, chemical and biological
	properties. Application of Jeevamrut at very low rate act as
	a tonic to so improving soil health. straw mulching reduce
	weeds and increase the soil moisture available for plant use.
	and Neemastra use as foliar spray over one acre, useful
	against sucking pests

Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	Natural farming practices enhance net monetary return and
	reduction in cost of cultivation
Recommendations for Deptt. Personnel	Seed treatment with Beejamrit @ 20 ml/kg seed, Jeevamrit
	(Soil application of 200 kg /acre Ghan Jeevamrit before cum
	up irrigation + Taral Jeevamrit @ 500 litre/acre at cum-up
	irrigation + Four foliar application of liquid Jeevamrit @ 85
	litre/acre at 21 days interval each spray), Straw mulching
	for weed management and moisture conservation) and two
	foliar application of Neemastra @ 12 litre/acre for aphid
	management recorded net return (Rs 51092/ha) and B:C
	ratio (4.50) as compared to control. Thus, from the present
	study, it can be concluded that natural farming practices
	enhance net monetary return and reduction in cost of
	cultivation
Feedback	

Details of	Paramete	Unit of	Result	Average	Average	Average	Benefit-Cost
technology	r Name	Paramet		Cost of	Gross	Net Return	Ratio (Gross
		er		cultivation	Return	(Rs/ha)	Return /
				(Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers	Yield	q/ha	13.03	20204	70986	50783	3.52
Practice)							
T2(Recommended	Yield	q/ha	12.06	14624	65716	51092	4.50
Practice)							

Detailed Information about OFT-5 Agronomy

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Natural Farming practices on growth and yield contributing attributes in Mustard
Year/Season:	Rabi 2023-24
Farming situation:	Rainfed

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Problem diagnosis:	Indiscriminate use of inorganic fertilizers has brought threat to soil health in respect of physical, chemical and biological properties of soil.
Thematic area:	Natural Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/	refinement:
T1 – Farmers Practice-	Seed treatment with Carboxin+ thiram @ 2 g/kg seed,
	Application of NPKS (32:16:12:8) Kg/acre, Application of
	Pendimethalin 38.7 % CS @ 700 ml/acre PE for weed
	control and application of Thiamethoxam @ 100 g/acre for
	aphid control
T2 –Recommended Practice-	Seed treatment with Beejamrit @ 20 ml/kg seed, Jeevamrit
	(Soil application of 200 kg /acre Ghan Jeevamrit before cum
	up irrigation + Taral Jeevamrit @ 500 litre/acre at cum-up
	irrigation + Four foliar application of liquid Jeevamrit @ 85
	litre/acre at 21 days interval each spray), Straw mulching
	for weed management and moisture conservation) and two
	foliar application of Neemastra @ 12 litre/acre for aphid
	management.
T3- Recommended Practice-	
Date of sowing:	16.10.2023
Date of harvesting:	
Source of technology:	Gurukul Natural Farming Farm, Kurukshetra (Haryana)
	(2019)
Characteristics of technology:	Jeevamrit, a promising liquid manure which act as a good
	soil tonic, enhances the soil physical, chemical and biological
	properties. Application of Jeevamrut at very low rate act as
	a tonic to so improving soil health. straw mulching reduce
	weeds and increase the soil moisture available for plant use.
	and Neemastra use as foliar spray over one acre, useful
	against sucking pests
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

Details of	Paramete	Unit of	Result	Average	Average	Average	Benefit-Cost
technology	r Name	Paramet		Cost of	Gross	Net Return	Ratio (Gross
		er		cultivatio	Return	(Rs/ha)	Return /
				n (Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							
T2(Recommended	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)				`			
T3(Recommended	-	-	-	-	-	-	-
Practice)							

Detailed Information about OFT-6 Agronomy

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Agri drone sprayer for chemical weed
	control in Wheat
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Manual spraying is more laborious and time taking and
	some times not more effective due to poor distribution of
	spray material
Thematic area:	Precision Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ r	efinement:
T1 – Farmers Practice-	Application of Metribuzin 70% WP @ 0.175 kg a.i. ha-1
	POE by Knapsack Sprayer
T2 –Recommended Practice-	Application of Metribuzin 70% WP @ 0.175 kg a.i. ha-1
	POE by Agri Drone Sprayer

T3- Recommended Practice-	-
Date of sowing:	15.11.2023
Date of harvesting:	-
Source of technology:	Vasantrao Naik Marathwada Krishi Vidyapeeth (VNMKV),
	Parbhani (2021)
Characteristics of technology:	-
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of	Paramete	Unit of	Result	Average	Average	Average	Benefit-Cost
technology	r Name	Paramet		Cost of	Gross	Net Return	Ratio (Gross
		er		cultivatio	Return	(Rs/ha)	Return /
				n (Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							
T2(Recommended	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)				>			
T3(Recommended	-	-	•	-	-	-	-
Practice)							

Detailed Information about (OFT-1)Horticulture

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of processing varieties of potato for their growth and yield parameters in Satna District.
Year/Season:	2022
Farming situation:	Irrigated
Problem diagnosis:	Farmers generally use locally available tubers as planting material, which is not suitable for
	processing purpose
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers	10
involved	
Type of OFT:	Assessment
Details of technology sel	ected for assessment/ refinement:
T1 – Farmers Practice-	Locally available seed as
T2 –Recommended	Kufri Chipsona 1

Practice-	
T3- Recommended	Kufri Kufri Chipsona 3
Practice-	
Date of sowing:	27.10.2022
Date of harvesting:	07-10 February, 2023
Source of technology:	CPRI(2019)
Characteristics of	Varieties having high dry matter content (21-23 %), acceptable reducing sugar level between 60-140
technology:	mg/100g fresh weight, Good for processing (chips and namkeen making
Name of	Potato
Crop/Enterprises:	
Recommendations for	Based on the performance of the varieties, Kufri Chipsona 3, that recorded, higher number of tuber
Farmers	per plant, tuber size and yield of tubers and higher percentage of grade A and grade B tubers
	meeting all desirable parameters of processing varieties can be recommended for cultivation in
	Satna district
Recommendations for	Kufri Chipsona 3 should be promoted for cultivation in Satna for processing purpose
Deptt. Personnel	
Feedback	Farmers showed their preference for growing Kufri Chipsona 3 as it gave higher yield of grade A
	and grade B tubers having attractive colour of tubers

Details of technology	Parameter Name	Unit of Paramete r	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	q/ha 🔥	187.5	102300	225000	132700	2.19
T2(Recommended Practice)	Yield	q/ha	246.45	124500	295740	171240	2.38
T3(Recommended Practice)	Yield	q/ha	278.29	124500	333948	209448	2.68

Detailed Information about (OFT-2) Horticulture

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Natural farming practices in onion.
Year/Season:	2022 (Rabi)
Farming situation:	Irrigated
Problem diagnosis:	The cost of inorganic fertilizers is Increasing enormously to the extent that they are out of reach of small and marginal farmers.
Thematic area:	Natural Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/	Assessment
Refinement):	
Details of technology selected for as	ssessment/ refinement:
T1 – Farmers Practice-	Recommended dose of fertilizer NPK @ 120:80:60 Kg/ha
T2 –Recommended Practice-	FYM 25 T + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage +two sprays of neemastra@ 0.3%
T3- Recommended Practice-	Ghan Jeevamrit @ 500 kg/ha + Soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage +two sprays of neemastra@ 0.3%
Date of sowing:	29 12 2022

Date of harvesting:	15- 22.04.2023
Source of technology:	University of Agricultural Sciences, banglore(2017)
Characteristics of technology:	Microbial preparation Jeevamrit promotes immense biological activity in soil and enhances nutrient availability and uptake by the crop besides improving soil health. Being rich in nutrients, auxins, gibberellins, and microbial load, acts as a tonic to in rich soil induced plant vigour with quality production. Application of Bio enhancer improves the production, productivity and quality of onion.
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	Application of Ghan Jeevamrit @ 500 kg/ha before transplanting followed by soil application of Jeevamrit @ 500 litre/ha at planting + vegetative + bulb initiation stage +two sprays of neemastra@ 0.3% can be recommended to farmers for natural farming of onion
Recommendations for Deptt. Personnel	Base on the results observed under natural farming it is evident that onion production is feasible by following natural farming practices showing the possibility of substituting the synthetic fertilizers effectively by ghan jeevamirt, which can provide yield along with improved quality attributes
Feedback	Jeevamrit is easy to prepare at home ,Farmers reported yield loss upto 10-15 %, however, the cost of cultivation has also decreased by 10.46 %

Details of technology	Parameter	Unit of	Result	Average	Average	Average Net	Benefit-Cost
	Name	Parameter		Cost of	Gross	Return	Ratio (Gross
				cultivation	Return	(Rs/ha)	Return /
				(Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	219.59	83892	252529	168636	3.01
T2	Yield	q/ha	208.69	85717	239994	154276	2.80
T3	Yield	q/ha	190.17	75117	218696	143578	2.91

Detailed Information about (OFT-3) Horticulture

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of foliar application of micronutrients on Yield and quality of Bitter gourd.
Year/Season:	2023/ (Kharif)
Farming situation:	Irrigated
Problem diagnosis:	Productivity of bitter gourd is adversely affected by micronutrient deficiencies
Thematic area:	Integrated nutrient management
No of trials:	10
No. of farmers involved	10
Type of OFT:	Assessment
Details of technology sele	cted for assessment/ refinement:
T1 – Farmers Practice-	Recommended dose of fertilizer NPKS Zn @ 150:60:40 : 20 :12.5 Kg/ha
T2 –Recommended	RDF+Foliar application of urea 0.5 % along with boric acid @ 25 ppm at 15 days interval after 25
Practice-	days after planting
T3- Recommended	RDF+ Foliar application of urea 1.0 % along with boric acid @ 25 ppm at 15 days interval after
Practice-	25 days after planting.
Date of sowing:	12.7.23
Date of harvesting:	15.09.2023-29.11.2023
Source of technology:	IIHR, Banglore (2018)
Characteristics of	Boric acid at 25 ppm concentration applied as foliar spray thrice prior to early fruiting stage helps
technology:	in improving pollen health and also results in marked increase in vigor of the vine, fruit set and size
	of fruit leading to enhance yield over $25 - 35$ %. Adding urea at 0.5 % or 1.0 % improves the

	absorption of boron by leaves.
Name of	Bitter gourd
Crop/Enterprises:	
Recommendations for	Foliar application of urea 1.0 % along with boric acid @ 25 ppm at 15 days interval after 25 days
Farmers	after planting increases yield of bitter gourd by 19.66
Recommendations for	Vegetable growing farmers should be advised to spray 1.0 % urea along with boric acid @ 25 ppm
Deptt. Personnel	at 15 days interval after 25 days after planting for improving fruit set in Bittegourd and improving
	the male to Female flower ratio.
Feedback	Farmers greatly appreciated the technology as it very cheap and readily available. The results of
	using boric acid are quite promising.

Details of	Parameter	Unit of	Result	Average	Average	Average Net	Benefit-Cost
technology	Name	Paramete		Cost of	Gross	Return	Ratio (Gross
		r		cultivation	Return	(Rs/ha)	Return /
				(Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	143.65	79320	229840	150520	2.90
T2(Recommended	Yield	q/ha	165.45	84480	264720	180240	3.13
Practice)							
T3(Recommended	Yield	q/ha	171.34	85560	274140	188800	3.20
Practice)							

Detailed Information about (OFT-4) Horticulture

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of processing varieties of potato for their growth and
	yield parameters in Satna District.
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	Farmers generally use locally available tubers as planting material,
	which is not suitable for processing purpose
Thematic area:	Varietal Evaluation
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refine	ement:
T1 – Farmers Practice-	Locally available seed
T2 –Recommended Practice-	Kufri Chipsona 4
T3- Recommended Practice-	Kufri Frysona
Date of sowing:	27.11.2023
Date of harvesting:	
Source of technology:	IIHR, Bangalore (2018)
Characteristics of technology:	
Name of Crop/Enterprises:	Potato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Details of	Parameter	Unit of	Result	Average	Average	Average Net	Benefit-Cost
technology	Name	Paramete		Cost of	Gross	Return	Ratio (Gross
		r		cultivation	Return	(Rs/ha)	Return /
				(Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
T2(Recommended	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							
T3(Recommended	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							

Detailed Information about OFT-5 Horticulture

Horticulture				
Assessment of natural farming practices on growth and yield of				
Onion				
Rabi 2023-24				
Irrigated				
The cost of inorganic fertilizers is Increasing enormously to the extent				
that they are out of reach of small and marginal farmers				
Varietal Evaluation				
10				
10				
Assessment				
ment:				
Recommended dose of fertilizer NPK @ 120:80:60 Kg/ha				
FYM 25 T + Soil application of Jeevamrit @ 500 litre/ha at planting				
+ vegetative + bulb initiation stage + two sprays of neemastra(0.3%)				
GhanJeevamrit + Soil application of Jeevamrit @ 500 litre/ha at				
planting + vegetative + bulb initiation stage+ two sprays of				
neemastra(0.3%)				
03.12.2023				
University of Agricultural Sciences, Banglore (2017)				
Onion				
-				
-				
-				

Result: (Economic Performance of OFT)

Details of technology	Parameter Name	Unit of Paramete r	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
T2(Recommended Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
T3(Recommended Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited

Detailed Information about OFT -1 Plant Protection

Name of Discipline	Plant Protection				
Title of on-farm trial:	Assessment of integrated module of Fusarium wilt management in chickpea				
Year/Season:	Rabi 2022 -23				
Farming situation:	Rainfed				
Problem diagnosis:	Yield loss up to 40% due to severe infestation of Fusarium wilt				
Thematic area:	Integrated Disease Management				
No of trials:	10				
No. of farmers involved	10				
Type of OFT (Assessment/	Assessment				
Refinement):					
Details of technology selected for asso	essment/ refinement:				
T1 – Farmers Practice-	Seed treatment with Carbendezim + Mancozeb @ 2 gram per kg seed.				
T2 –Recommended Practice-	Integrated module- Deep ploughing + Soil application of Trichoderma viride @				
	4 kg/ha + Seed treatment (FIR)+ Intercropping (Chickpea+ Coriander , 10:1or				
	2) and Marigold planting around the border + need based foliar application of				
	tebuconazol @ 625 ml/ha at 25 and 45 DAS				
T3- Recommended Practice-	-				
Date of sowing:	22 Oct. 2022				
Date of harvesting:	-				
Source of technology:	JNKVV, Jabalpur (2015)				
Characteristics of technology:	Integrated module of wilt management is more effective in managing				
	Fusarium wilt. Integrated module- Deep ploughing + Soil application of				
	Trichoderma viride @ 4 kg/ha + Seed treatment (FIR)+ Intercropping				
	(Chickpea+ Coriander, 10:1or 2) and Marigold planting around the border +				
	need based foliar application of tebuconazol @ 625 ml/ha at 25 and 45 DAS.				
Name of Crop/Enterprises:	Chickpea				
Recommendations for Farmers	Use in Integrated module- Deep ploughing + Soil application of Trichoderma virde @				
	4 kg/ha + Seed treatment(FIR)+ Intercropping (Chickpea+ Coriander, 10:1or 2) and				
	Marigold planting around the border + need based foliar application of Tebuconazol				
	@ 625 ml/ha at 25 and 45 DAS at vegetative growth stage in control of fusarium wilt				
	disease in chickpea crop.				
Recommendations for Deptt.	Soil application of Trichoderma virde @ 4 kg/ha + Seed treatment(FIR)+				
Personnel	Intercropping (Chickpea+ Coriander , 10:1or 2) and Marigold planting around the				
	border + need based foliar application of Tebuconazol @ 625 ml/ha at 25 and 45 DAS				
	at vegetative growth stage in control of fusarium wilt disease in chickpea crop.				
Feedback	Effective control of fusarium wilt disease in farmer field use in Use in Integrated				
	module- Deep ploughing + Soil application of Trichoderma virde @ 4 kg/ha + Seed				
	treatment(FIR)+ Intercropping (Chickpea+ Coriander , 10:1or 2) and Marigold				
	planting around the border + need based foliar application of Tebuconazol @ 625				
	ml/ha at 25 and 45 DAS at vegetative growth stage in control of fusarium wilt disease				
· · · · · · · · · · · · · · · · · · ·					

Result: (Economic Performance of OFT- 2022-23)

Details of	Parameter	Unit of	Result	Average	Average	Average Net	Benefit-Cost
technology	Name	Paramete		Cost of	Gross	Return	Ratio (Gross
		r		cultivation	Return	(Rs/ha)	Return /

				(Rs/ha)	(Rs/ha)		Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	11.5	20309	58650	38341	1.8
T2(Recommended	Yield	q/ha	13.8	23670	78380	54710	2.3
Practice)		_					
T3(Recommended	-	-	-	-	-	-	-
Practice)							

Detailed Information about OFT - 2 Plant Protection

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of efficacy bio pesticide against aphid (Sucking
	pest) in Mustard
Year/Season:	Rabi /2022 -23
Farming situation:	Rainfed
Problem diagnosis:	Loss of crop up to 30-35% yield due to severe infestation of sucking pests(Aphids)
Thematic area:	Integrated pest Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refine	ment:
T1 – Farmers Practice-	Foliar application of Thiamethoxam 25 wg @ 100 gram/ acre .
T2 –Recommended Practice-	Foliar application of Neemastra biopesticide @ 6 % at 25,40&
	50 DAS
T3- Recommended Practice-	Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS
Date of sowing:	20 Oct. 2022
Date of harvesting:	-
Source of technology:	Tamil Nadu Agricultural University, Coimbatore (2017).
Characteristics of technology:	Spraying of Aganistra @ 6 % very effectively check sucking pest (Aphid) up to three foliar application after 15 days interval. Biopesticide application which are effective and biodegradable and do not leave any harmful effect on soil.
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	Use in foliar spray in bio-pesticide Aganistra @ 6 % at 25,40&
	50 days after sowing against Sucking pest in Mustard.
Recommendations for Deptt. Personnel	Application of foliar spray in bio-pesticide Aganistra @ 6 % %
	at 25,40% 50 days after sowing against Sucking pest in
	Mustard
Feedback	Effective result in Aganistra @ 6 % at 25,40& 50 days after
	sowing best result against Sucking pest in Mustard

Result: (Economic Performance of OFT)

Details of	Parameter	Unit of	Result	Average	Average	Average Net	Benefit-Cost
technology	Name	Paramete		Cost of	Gross	Return	Ratio (Gross
		r		cultivation	Return	(Rs/ha)	Return /
				(Rs/ha)	(Rs/ha)		Gross Cost)

T1 (Farmers Practice)	Yield	q/ha	10.47	19125	52960	33835	2.76
T2(Recommended	Yield	q/ha	11.62	20212	61005	40793	2.01
Practice)							
T3(Recommended	-	-	-	-	-	-	-
Practice)							

Detailed Information about OFT -3 Plant Protection

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of efficacy of bio pesticide against, Pod borer and
	Biharhairy caterpillar in Black gram
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Loss of crop yield due to insects in black gram up to 25-30 %.
	Several insecticides recommended for management of Pod borer &
	Bihar hairy caterpillar are showing resistance to insecticide
Thematic area:	Natural Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment	
T1 – Farmers Practice-	Foliar application of Indoxacarb 14.5 SC @150 ml per acre.
T2 –Recommended Practice-	Foliar application of Brahmastra bio pesticide @ 6 % at 25,40& 50
	DAS
T3- Recommended Practice-	-
Date of sowing:	18 July 2023
Date of harvesting:	26 Sep-2023
Source of technology:	Tamil Nadu Agricultural university, Coimbatore(2017).
Characteristics of technology:	Spraying of Brahmastra @ 6% effectively check Pod borer and
	hairy caterpillar in Black gram up to seventh day after application.
	Bio-pesticide application which are effective and biodegradable
	and do not leave any harmful effect on environment.
Name of Crop/Enterprises:	Black gram
Recommendations for Farmers	Use in foliar spray in bio-pesticide Bramastra @ 6 % at 25,40& 50 days
	after sowing against Pod borer and Bihar hairy caterpillar in Black
	gram.
Recommendations for Deptt. Personnel	Application of foliar spray in bio-pesticide Bramastra @ 6 % at 25,40&
	50 days after sowing against Pod borer and Bihar hairy caterpillar in
	Black gram.
	Effective result in Bramastra @ 6 % at 25,40& 50 days after sowing
Feedback	Effective result in Bramastra @ 0 % at 25,40& 50 days after sowing
Feedback	best result against Pod borer and Bihar hairy caterpillar in Black

Result: (Economic Performance of OFT)

Details of technology	Parameter Name	Unit of Paramete	Result	Average Cost of	Average Gross	Average Net Return	Benefit-Cost Ratio (Gross
		r		cultivation	Return	(Rs/ha)	Return /
				(Rs/ha)	(Rs/ha)		Gross Cost)

T1 (Farmers Practice)	Yield	q/ha	9.2	20610	57960	37350	1.81
T2(Recommended	Yield	q/ha	10.6	18250	68040	49790	2.72
Practice)							
T3(Recommended	-	-	-	_	-	-	-
Practice)							

Detailed Information about OFT -4 Plant Protection

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated module of Fusarium wilt management
	in chickpea
Year/Season:	Rabi 2023 –24
Farming situation:	Rainfed
Problem diagnosis:	Yield loss up to 40% due to severe infestation of Fusarium wilt
Thematic area:	Integrated Disease Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ re	efinement:
T1 – Farmers Practice-	Seed treatment with Carbendezim + Mancozeb @ 2 gram per kg
	seed.
T2 –Recommended Practice-	Integrated module- Deep ploughing + Soil application of
	Trichoderma viride @ 4 kg/ha + Seed treatment (FIR)+
	Intercropping (Chickpea+ Coriander, 10:1 or 2) and Marigold planting around the border + need based foliar application of
	tebuconazol @ 625 ml/ha at 25 and 45 DAS
T3- Recommended Practice-	-
Date of sowing:	29Oct. 2023
Date of harvesting:	-
Source of technology:	JNKVV, Jabalpur (2015)
Characteristics of technology:	Integrated module of wilt management is more effective in
	managing Fusarium wilt. Integrated module- Deep ploughing +
	Soil application of Trichoderma viride @ 4 kg/ha + Seed
	treatment (FIR)+ Intercropping (Chickpea+ Coriander, 10:1or
	2) and Marigold planting around the border + need based foliar
	application of tebuconazol @ 625 ml/ha at 25 and 45 DAS.
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

$Result: (Economic\ Performance\ of\ OFT)$

Details of technology	Parameter Name	Unit of Paramete r	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
T2(Recommended	Yield	g/ha	Awaited	Awaited	Awaited	Awaited	Awaited

Practice)							
T3(Recommended	-	-	-	-	-	-	-
Practice)							

Detailed Information about OFT - 5 Plant Protection

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of efficacy bio pesticide against aphid (Sucking
	pest) in Mustard
Year/Season:	Rabi 2023 -24
Farming situation:	Rainfed
Problem diagnosis:	Loss of crop up to 30-35% yield due to severe infestation of sucking pests(Aphids)
Thematic area:	Integrated pest Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refin	ement:
T1 – Farmers Practice-	Foliar application of Thiamethoxam 25 wg @ 100 gram/ acre.
T2 –Recommended Practice-	Foliar application of Neemastra biopesticide @ 6 % at 25,40&
	50 DAS
T3- Recommended Practice-	Foliar application of Aganistra biopesticide@ 6 % at 25,40 & 50 DAS
Date of sowing:	22 Oct. 2023
Date of harvesting:	
Source of technology:	Tamil Nadu Agricultural University, Coimbatore (2017).
Characteristics of technology:	Spraying of Aganistra @ 6 % very effectively check sucking pest
	(Aphid) up to three foliar application after 15 days interval.
	Biopesticide application which are effective and biodegradable and do
	not leave any harmful effect on
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT)

Details of technology	Parameter Name	Unit of Paramete r	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
T2(Recommended	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
Practice)							
T3(Recommended	-	-	-	-	-	-	-
Practice)							

Detailed Information about OFT - 6 Plant Protection

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of integrated module of late blight management
	in tomato crop.
Year/Season:	Rabi-2023-24
Farming situation:	Irrigated
Problem diagnosis:	Loss of crop yield up to 40-45 % due to late blight in tomato in
	vegetable crop.
Thematic area:	Integrated Disease Management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refi	inement:
T1 – Farmers Practice-	Foliar application of Carbendazim +Mancozeb @0.2 %
T2 –Recommended Practice-	Soil application of Trichoderma viride and Pseudomonas fluorescens
	@ 4 kg /ha. at 15 days before transplanting followed by prophylactic
	spray of fungicides viz., Metalaxyl + Mancozeb 72% (0.2%), sprayed at regular intervals of ten, twenty and thirty days.
T3- Recommended Practice-	at regular intervals of ten, twenty and thirty days.
Date of sowing /Planting	2023
Date of harvesting:	-
Source of technology:	Department of plant pathology, university of agricultural sciences,
bource of technology.	GKVK ., Bengaluru (Karnataka) 2017
Characteristics of technology:	Soil application of Trichoderma viride and Pseudomonas fluorescens
Characteristics of technology.	@ 4 kg /ha. at 15 days before transplanting followed by prophylactic
	spray of fungicides viz., Metalaxyl + Mancozeb 72% (0.2%), sprayed
	at regular intervals of ten, twenty and thirty days of disease severity
	was found very effective in managing the disease
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	-
Feedback	-
	I .

Result: (Economic Performance of OFT)

Details of technology	Parameter Name	Unit of Paramete r	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
T2(Recommended Practice)	Yield	q/ha	Awaited	Awaited	Awaited	Awaited	Awaited
T3(Recommended Practice)	-	-	-	-	-	-	-

Information about Extension OFT: 01

Title	Assessment of change in farmer's perception towards participation in Extension
	Activities like Kisan Gosthi, Group Meetings, Sammelan programmer by using
	Public Addressing System (PAS) audio devices.
Season & Year	Rabi/ 2023-24

Problem identified	Less motivation towards participation and attention in off campus training
	programmes among farmers
Thematic Area	Extension Management
Farming situation	NA
Name of Technology Intervention	PAS
under study	
Farmers Practice	Public addressing system is considered to be the most effective and efficient tool in organization of meetings and campaign in rural areas
No. of replication (Farmers)	25

Results / findings

Performance indicators/ parameters	Unit/ details	Observation					
		T1 (Farmers T2(Recommended Practice) Practice) T3(Recommended Practice)					
T-1	Awaited	Awaited	Awaited	Awaited			
T-2	Awaited	Awaited	Awaited	Awaited			

Information about Home Science OFT: 01

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of value addition of aonla on tribal farm family income
Year/Season:	Rabi 2023
Problem diagnosis:	Poor socio economic condition of tribal farm families dependent on
	forest produce
Thematic area:	Income generation
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment	ent:
T1 – Farmers Practice-	Collection and selling of fresh aonla fruit in the market
T2 –Recommended Practice-	Selling of dried aonla (Amlethi) in the market
Source of technology:	CISH, Lucknow,2018
Characteristics of technology:	Technology comprises of washing, cleaning and boiling of aonla for 10
	minutes, followed by removal of stones and drying of aonla flakes in
	sun for 2-3 days and grinding the dried flakes into powder
Name of Crop/Enterprises:	Aonla
Farming situation:	Rainfed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	Farmer should not boil aonla in an iron vessel.
	Do not dry directly in the ground, use tarpaulin to dry Amlethi.
	Do not use immature aonla for value addition
Recommendations for Deptt. Personnel	Farmer should not boil aonla in an iron vessel.
	Do not dry directly in the ground, use tarpaulin to dry Amlethi.
	Do not use immature aonla for value addition

Feedback	Selling of value added product of fresh Aonla to dried aonla and aonla
	powder is more economical than selling fresh fruit.

(A) Economic Performance Home Science OFT: (For value addition)

Detail of Technology	Composition of product	Production (q)	Averag e Cost of input (Rs)	Averag e Gross Return (Rs)	Averag e Net Return (Rs)	Benefit -Cost Ratio (Gross Return / Gross Cost)
T ₁ (Farmers Practices)	Selling of fresh fruit in the market (@Rs.15 per kg)	1	1000	1500	500	1.5
T ₂ (Recommended Practices)	Selling of dried aonla (Amlethi) in t he market (@Rs.130 per kg)	0.18	1500	3240	1740	2.16
T ₃ (Recommended Practices	Selling of Aonla powder in the mar ket(@Rs.300 per kg)	0.15	2000	4500	2500	2.25

Information about Home Science OFT: 02

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of green leafy vegetable with multigrain flour chapati for i
	mprovement of haemoglobin levels in farmwomen
Year/Season:	Kharif 2023
Problem diagnosis:	High anemic patient in district
Thematic area:	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessm	ent:
T1 – Farmers Practice-	Wheat flour chapatti
T2 –Recommended Practice-	Wheat+ soy flour + makki atta (1:1:1) + seasonal green leafy vegetable
T3 –Recommended Practice-	Wheat + makki atta+ besan (1:1:1) + seasonal green leafy vegetable
Source of technology:	KVK Jalandhar (2016)
Characteristics of technology:	Chopped Green leafy vegetables like amaranth leaves (chaulai), fenugr
	eek (methi), spinach (palak), coriander (leafy coriander), mint leaves (p
	udhina), spring onion leaves (pyaaz) can be added to the whole wheat f
	lour while kneading and rolled out as green rotis. This will enhance nutr
	ients like iron, vitamin C, beta carotene (form of vitamin A in vegetaria
N. C.C. (T.)	n sources), potassium and many other important minerals.
Name of Crop/Enterprises:	Green leafy vegetables and cereals
Farming situation:	Rain fed
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

(B) Economic Performance Home Science OFT: (For Nutritional security)

Name of Enterprise /product: -Green leafy vegetables and cereals

Detail of Technolog	Name of Product/ enterprise	Per capita Consump					Anthropometric measurements		
у		tion gm/ day	Energ y (kcal)	Protein (gm)	Iron (mg)	Calci um (mg)	Increas e in Weight (Kg)	Increas e in Height (cm)	BMI ((Weight (Kg)/ (Height(in m) * Height(in m)
T ₁ (Farmer s Practices)	Wheat flour chapatt i	100	748	6.8	112. 4	142	1-2	1-3	0.84
T ₂ (Recom mended Practices)	Wheat+ soy flour + makki atta (1:1:1) + seasonal green le afy vegetable	100	824	14.4	128. 8	182.8	2-6	2-4	1.4
T ₃ (Recom mended Practices	Wheat + makki atta + besan (1:1:1) + se asonal green leafy vegetable	100	864	118.48	188. 84	242.2	2-6	2-6	1.8

Information about Home Science OFT: 03

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Acceptability of value added products from oyster mush room
Year/Season:	Rabi 2023-24
Problem diagnosis:	Low protein diet
Thematic area: (Focus area in DFI and nutri	Value addition
smart initiatives)	
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Low use of mushroom
T2 –Recommended Practice-	Oyster mushroom Powder
Source of technology:	ICAR-National Research Centre for Mushroom , Solan,2008
Characteristics of technology:	Produced oyster mushroom dried in the solar- drier. Mushrooms has to be dried at a temperature of 45 °C for 2 days. Followed by grinding to prepare quality mushroom powder
Name of Crop/Enterprises:	Mushroom powder
Farming situation:	Irrigation
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	Awaited
Recommendations for Deptt. Personnel	Awaited
Feedback	Awaited

Detail of Technology	Composit ion of	Production per unit	Average Cost of input	Average Gross	Average Net Return	Benefit-Cost Ratio (Gross Return / Gross
	product		(Rs/unit	Return (Rs/unit)	(Rs/unit)	Cost)
T ₁ (Farmers	Awaited	Awaited	Awaited	Awaited	Awaited	Awaited
Practices)						
T ₂ (Recommended	Awaited	Awaited	Awaited	Awaited	Awaited	Awaited
Practices)						
T ₃ (Recommended	Awaited	Awaited	Awaited	Awaited	Awaited	Awaited
Practices						

Information about Home Science OFT: 04

Name of Discipline	Home Science
Title of on-farm trial:	Assessment of Mahua seed decorticator for Drudgery Reduction of Tribal
	Farm women
Year/Season:	Kharif/ 2023-24
Problem diagnosis:	Decortications of mahua seed by traditional shelling method is time consuming, laborious, low keeping quality due to damage of mahua seed and causing high drudgery of Farm Women
Thematic area: (Focus area in DFI and nutri	Drudgery Reduction
smart initiatives)	
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	T-1. Decortications of mahua seed manually
T2 –Recommended Practice-	T-2. Decortications of mahua seed by Mahua seed decorticator
Source of technology:	OUAT Bhubaneswar (Odisha) (2011)
Characteristics of technology:	Capacity: 10 kg/h, Cost of operation: Rs. 1.30 per kg of seed
Name of Crop/Enterprises:	Mahua
Farming situation:	Rain fed
Date of sowing:	
Date of harvesting:	-
Recommendations for Farmers	Awaited
Recommendations for Deptt. Personnel	Awaited
Feedback	Awaited

(A) Economic Performance Home Science OFT: (For Drudgery Reduction)

Detail of Technology	Output *	Est. Energy Expenditure kj/min	WHR beat/min	% reduction in drudgery	% increase in efficiency	Cardiac Cost of Work	% Saving of cardiac Cost
T ₁ (Farmers	Awaited	Awaited	Awaited	Awaited	Awaited	Awaited	Awaited
Practices)							
T_2	Awaited	Awaited	Awaited	Awaited	Awaited	Awaited	Awaited
(Recommended							
Practices)							

Detailed Information about OFT: 01

Detailed Illiof mation about Of 1. 01	
Name of Discipline / Fisheries etc)	Animal Science/
Title of on-farm trial:	Evaluation of poultry breed-Narmada Nidhi

Year/Season:	2023,Kharif					
Farming situation:	Semi Scavenging					
Problem diagnosis:	Poor performance due the unavailability of quality poultry bird					
Thematic area:	Poultry farming					
No of trials:	4					
No. of farmers involved	4					
No.of Birds	25					
Type of OFT (Assessment/ Refinement):	Evaluation					
Details of technology selected for assessing	ment/ refinement:					
T1 – Farmers Practice-	T-1 Rearing of Local poultry birds					
T2 –Recommended Practice-	T-2 Rearing of poultry breed-Narmada Nidhi in back yard system of Poultry farming.					
T3- Recommended Practice-	-					
Date of sowing:	22.9.2023					
Date of harvesting:	13.12.2023					
Source of technology:	NDVSU, Jabalpur (M.P.)					
Characteristics of technology:	-					
Name of Crop/Enterprises:	Poultry Farming					
Recommendations for Farmers	To assess this breed in Satna district trial was conducted and according the findings it is recommended that Narmada Nidhi is most suitable and economically viable in back yard system especially for travel community.					
Recommendations for Deptt. Personnel	The net input output ratio was more appropriate (4.06 than 3.61) and profitable to the farmers therefore this breed should be propagated in the field through departmental Personnel in the district. For diffusion of this breed, the intensive activities should be conducted by the department.					
Feedback	Due to the low mortality rate, good body weight gain potential and higher market value, this breed producing higher return. Therefore Narmada Nidhi must be popularized and state department should facilitate for availability of the chicks of this breed in near future although farmers were interested to propagate this breed through own system.					

Details of technology	Performance of OFT) Parameter Name	Unit of Paramet er	Result	Age of egg laying started (days)	Mortali ty percent up to 6 months of age	Average Cost of cultivati on (Rs/bird	Average Gross Return (Rs/bird)	Avera ge Net Return (Rs/bir d)	Benefit- Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Body Weight gain at 90 days of age	kg/bird	1.35	205	26	45	148.5	103.5	3.3
T2(Recommended Practice)	Body Weight gain at 90 days of age	kg/bird	1.92	184	18	65	294.8	229.8	4.53
T3(Recommended Practice)	-	-	-			-	-	-	-

Detailed Information about OFT: 02

Name of Discipline / Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of the effect of chick pea flour mixed with butter milk in expelling retained fetal membranes for quitting of Placenta in buffalo.
	memoranes for quitting of Flacenta in burraio.

Year/Season:	Kharif, 2023
Farming situation:	Semi grazing.
Problem diagnosis:	Retained placenta is an important post partum complication. The placenta may be retained
	because of lack of expulsive forces or failure of separation of fetal cotyledons
Thematic area:	Animal Disease management.
No of trials:	6
No. of farmers involved	6
Type of OFT (Assessment/	Assessment
Refinement):	
Details of technology selected for assessm	nent/ refinement:
T1 – Farmers Practice-	Farmers are not awaked regarding problem and solution therefore no proper
	treatment.
T2 –Recommended Practice-	Feeding of chickpea flour mixed with butter milk
T3- Recommended Practice-	-
Date of sowing:	05.9.2023
Date of harvesting:	16.12.2023
Source of technology:	Collage of Vet. Sci. and Animal Husbandry , Junagadh (Gujarat) (Year 2017)
Characteristics of technology:	18 kg flour of chickpea and Butter milk18 liters
Name of Crop/Enterprises:	Dairy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT) (Please choose and give the parameters name and value according to suitable your OFT

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommen ded Practice)
Average Daily Milk yield of three months after treatment (L),	Liter	4.52	7.5	
quitting of Placenta percentage %	Percentage	7	2	-
Average cost of cultivation (Rs./ calf) at three month of age.	Rs./ calf	86	112	-
Average gross Return at three month of age.	Rs./ calf	248.6	412.5	-
Average net returns/ calf at three month of age.	Rs./ calf	162.6	300.5	-
B: C ratio		2.89	3.68	-

Detailed Information about OFT: 03

Detailed information about 01 1: 05	
Name of Discipline / Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment the anti diarrhoeic effect of whey on lactating buffalo
Year/Season:	Kharif, 2023
Farming situation:	Semi grazing.
Problem diagnosis:	Open grazing is a very common system of livestock farming specially from the month of March to October in the district but in the month of June lactating buffaloes used to suffer from heat stress, diarrhea and poor performance of milk productivity.
Thematic area:	Animal Disease management.
No of trials:	6
No. of farmers involved	6
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessn	nent/ refinement:
T1 – Farmers Practice-	T-1 No medication due to poor availability of vet. Services and lack of
	knowledge.
T2 –Recommended Practice-	T-2 Lactating buffaloes to be fed with 2 litres of whey to control the heat stress,
	diarrhoea and It to be followed for one week.
	(Rationale: Whey is a by-product obtained during the course of production of
	chhena. Chhena contains whey-water 93.6%, fat 0.5%, protein 0.4%, lactose
	5.1%, ash 0.1%, lactic acid 0.2%, and milk solid 6-7%. It is good source of
	vitamin A & D. It is diuretic and having antibacterial property.)
T3- Recommended Practice-	-
Date of sowing:	05.9.2023
Date of harvesting:	16.12.2023
Source of technology:	Central Arid Zone Research Institute, Jodhpur (2020)
Characteristics of technology:	-
Name of Crop/Enterprises:	Dairy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result: (Economic Performance of OFT) (Please choose and give the parameters name and value according to suitable your OFT

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommen ded Practice)
Average Milk production per dayduring 15 days of period per buffalo after suffering from diarrhoeic disease (lit).	Liter	3.5	5.6	
Mortality rate after treatment.	Percentage	10	6	-
Average cost of cultivation (Rs./ calf) at three month of age.	Rs./ calf	82.5	118	-
Average gross Return at three month of age.	Rs./ calf	192.5	328	-
Average net returns/ calf at three month of age.	Rs./ calf	110	210	-
B: C ratio		2.33	2.77	-



Frontline Demonstrations

Details of FLDs organized (Based on soil test analysis)

KV	Seaso	Discipline	The	Technolo	Crop	Name of	Name	Farmin	Complet	Crop]	No. c	of farm	ners
K Na me	n	(Agronomy/H orticulture/ Soil Science/Plant Protection/Pl ant Breeding/ Agroforestry)	matic area	gy for demonstr ation	Catego ry	Сгор	of Varie ty	g Situatio n (rainfe d/irriga ted/sem i- irrigate	ed/Ongo ing	Area (ha)	SC	ST	Ot her s	Gen eral
Sat	Khari f& Rabi 2022- 23	Agronomy	Crop ping Syste m	Demonstr ation on utilizatio n of available residual moisture in rice fields under Rice- Fallow cropping system for growing early varieties of Mustard	Cereal & oilsee d	Rice & Mustard	MTU 1010 & PM 28	d) Rainfe d & semi- irrigate d	Complet	6	7	0	0	8
Sat	Khari f& Rabi 2022- 23	Agronomy	Crop ping Syste m	Demonstr ation on Kodo millet- Linseed cropping system for utilizatio n of kharif fallow and wasteland s	Cereal & oilsee d	Kodo millet- Linseed	TNA U 86 & JLS 66	Rainfe d & semi- irrigate d	Complet	6	3	0	0	12
Sat na	Khari f 2023- 24	Agronomy	Reso urce Cons ervati on Tech nolog y	Demonstr ation on direct seeding technolog y in Rice for reduction of cost	Cereal s	Rice	Swar n Shrey a	Irrigati on	Complet ed	4	2	0	0	8

Sat na	Khari f 2023- 24	Agronomy	Integ rated Crop Mana geme nt	and mitigate climate change Demonstr ation on Integrated crop manageme nt of Sorghum for higher productivit y and profitabilit y		Sorghu m	CSV 28	Irrigati on	Complet ed	4	1	0	6	3
Satn a	Rabi 2022- 23	Horticulture	Natur al Farmi ng	Demonstra tion of Chemical free Natural farming practices in tomato.	Vegeta ble	Tomato	Kashi Aman	Irrigate d	Ongoing	1.0	0	0	20	0
Satn	Rabi 2022- 23	Horticulture	Crop Diver sificat ion and intens ificati on	Demonstra tion of vegetable intercroppi ng (Cabbage +Pea) for ensuring higher returns under Okra- Cabbage- Onion cropping sequence.	Vegeta ble	Cabaage +Pea	Pride of India + Kashi Smrid hi	Irrigate d	Ongoing	1.0	2	0	10	8
Satn a	Rabi 2022- 23	Horticulture	Natur al Farmi ng	Demonstra tion of Chemical free Natural farming practices in Potato.	Vegeta ble	Potato	Kufri Chips ona 3	Irrigate d	Ongoin g	0.5	2	0	8	7
Sat na	Rabi 2023- 24	Horticulture	Chem ical free Natur al farmi ng	Demonstra tion of Chemical free Natural farming practices in tomato.	Vegeta bles	Tomato	Kashi Aman	Irrigatio n	Ongoing	1	0	0	8	7

Sat	Rabi	Horticulture	Crop	Demonstra	Vegeta	Cabbage	Gree	Irrigati	Complet	1	2	0	12	4
na	2023-		Diver	tion of	bles	+ Pea	n	on	ed	-	_	Ů		•
	24		sificat	vegetable			chall							
			ion	intercroppi			anger							
			and	ng			+Kas							
			intens	(Cabbage			hi							
			ificati	+Pea) for			samr							
			on	ensuring			udhi							
			(Inter	higher										
			cropp	returns										
			ing)	under										
				Okra-										
				Cabbage-										
				Onion										
				cropping										
				sequence.										
	Rabi	Horticulture	Chem	Demonstra	Vegeta	Potato	Kufa	Irrigati	Ongoing	1	0	0	17	2
Sat	2023-	22010100110110	ical	tion of	bles		ri	on	01.9019	_	Ů	Ů		_
na	24		free	chemical			chips							
			Natur	free			ona -							
			al	Natural			3							
			farmi	farming										
			ng	componen										
				ts										
				(Beejamrit										
				&Jeevamri										
				t) in										
				Potato.										
Sat	Khari	Plant		Demonstra	Vegeta	Okra		Irrigati	Complet	1	1	1	1	7
na	f -	Protection		tion of of	bles			on	ed					
	2023			efficacy of										
				Brahmastr										
				a bio										
				pesticide against										
				sucking										
				pest in										
				Okra										
Sat	Khari	Plant	Integr	Demonstra	Cereal	Rice	JR-	Irrigati	Complet	4	1	0	0	0
na	f -	Protection	ated	tion of	s		206	on	ed	_	0	ŭ		
	2023		Disea	Trichoder										
	•		se	ma species										
			Mana	in										
			geme	manageme										
			nt	nt of Rice										
				false smut										
			T .	D	D :	D:		TD 40 =			_			
Sat	Khari	Plant	Integr	Demonstra	Pulses	Pigeon		Raifed	Ongoing	4	0	1	0	0
na	f -	Protection	ated	tion of		pea						0		
	2023	_	Insect	myco posticido										
			pest	pesticide Pagunaria										
			Mana	<u>Beauveria</u> <u>bassiana</u> w										
			geme nt	ith										
			111	botanical										
				insecticide										
				neem										
				against										
		ī		" " "	i	i .	1	1	Ī	1	i l		i l	

				pod fly and pod borer on Pigeonpea										
Sat	Rabi2	Plant	Inco	Demonstra	Mushr	Mushro	Pluro	Irrigati	Ongoing	10	0	1	0	0
na	023-	Protection	me	tion of	oom	om	tus	on		units		0		
	24		gener	production			sajor							
			ation	technolog			kaju							
				y of oyster										
				mushroom										
				for income										
				generation										
				in										
				marginaliz										
				ed group										
				of farmers										

Economic Impact of Crop FLD

KV	ic Impact of Cr Technology	Name of	Nam	Na	Resu	Avei	*90°	Avera	nge Oge	Average		Benefi	it_	
K	for	Crop/	e of	me	Kesu	Result			Gros		Net		Cost	
Na	demonstrat		e oi Para	of			e Co				Retu		Ratio	
		Enterprise							Return (Rs/ha)		1			
me	ion		mete	Uni			culti		(RS/IIa)		(Rs/h			
			r	t			ioi						Retur	
							(Rs/l	na)					Gros Cost	
					FP	RP	FP	RP	FP	DD	RP FP		FP	RP
					(T_1)	(T_2)	(T ₁	(T_2)	(T_1)	(T_2)	(T_1)	RP (T ₂)	(T_1)	(T_2)
						(12))	(12)	(11)	(12)	(11)	(12)	(11)	(12)
Satna	Demonstrat	Rice and	Grai	q/h	45.83	42.44	358	613	9349	1765	576	1151	2.61	2.88
	ion	Mustard	n	a		(Rice	41	86	1	64	50	79		
	utilization		Yiel)+								
	of		d			16.36								
	available					(Must								
	residual					ard)								
	moisture in													
	rice fields													
	under													
	Rice-													
	Fallow													
	cropping													
	system for													
	growing													
	early													
	varieties of													
Satna	Mustard	W - 1 1	Grai	/1-	00	20.11	0	511	0.00	1642	0.00	1131	0.00	3.21
Sama	Demonstrat	Kodo and		q/h	00	(Kod	U	10	0.00	85	0.00	75	0.00	5.21
	ion on	Linseed	n	a		o) +		10		0.5		13		
	Kodo		Yiel			16.94								
	millet-		d			(Lins								
	Linseed					eed)								
	cropping					/								
	system for													
	utilization													
	of kharif													
	fallow and													
	wastelands													

Satna	Demonstrat ion on direct seeding technology in Rice for reduction of cost and mitigate climate change	Rice	Grai n Yiel d	q/h a	35.96	45.26	345 20	355 23	7849 2	9879 2	439 72	6326	2.27	2.78
Satna	Demonstrat ion on Integrated crop management of Sorghum for higher productivity and profitability	Sorghum	Grai n Yiel d	q/h a	19.75	26.10	305 20	315 22	6370	8416	331 84	5264 0	2.09	2.67
Satna	Demonstration of Chemical free Natural farming practices in tomato.		Yiel d	(q/h a)	298.01	280.9	10057	86615	298010	197435	197435	194343	2.96	3.24
Satna	Demonstration of vegetable intercropping (Cabbage +Pea) for ensuring higher returns under Okra-Cabbage-Onion cropping sequence.	+Pea	Yiel d	(q/h a)	240.66	303.6	82450	98950	228625	288474	146175	189524	2.72	2.92
Satna	Demonstration of Chemical free Natural farming practices in Potato.		Yiel d	(q/h a)	180.92	177.6 6	92300	86850	226155	222080	133854	135230	2.45	2.54
Satna	Demonstration of Chemical free Natural farming practices in tomato	Tomato	Yiel d	(q/h a)	298.01	280.9	10057	86615	298010	280958	197435	194343	2096	3.24

Satna	Demonstration of vegetable intercropping (Cabbage +Pea) for ensuring higher returns under Okra +Cabbage+ Onion intercropping	Cabbage +Pea	Yiel d	(q/h a)	-	-	-	-	-	-	-	-	-	-
Satna	Demonstration of Chemical free Natural farming practices in Potato	Potato	Yiel d	(q/h a)	-	-	-	1	-	-				-
Satna	Demonstratio n of of efficacy of Brahmastra bio pesticide against sucking pest in Okra	Okra	Yiel d	(kg/ ha)	9635	1052	282 80	247 65	9635	1052 00	680 70	8043	2.40	3.24
Satna	Demonstrat ion of Trichoder ma species in manageme nt of Rice false smut	Rice	Yiel d	(q/h a)	33.7	42.5	24 215	27 110	6150	7756 2	372 87	5045	1.53	1.86
Satna	Demonstrati on of myco pesticide Beauveria bassianawit h botanical insecticide neem against pod fly and pod borer on Pigeonpea	Pigeon pea	Yiel d	(q/h a)	Awaite	Await ed	Aw aite d	Awa ited	Awa ited	Awa ited	Awa ited	Awa ited	Await ed	Aw aite d
	Production technology of oyster mushroom Plurotus sajorkaju for income generation in marginalized group of farmers	Mushroom	Yiel d	(kg/ unit)	Awaite d	Await ed	Aw aite d	Awa ited	Awa ited	Awa ited	Awa ited	Awa ited	Await ed	Aw aite d

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	7	Jan-Feb,23	193
2	Farmers Training	6	Nov,23	148
3	Media coverage	5	Feb,23	Mass
4	Training for extension functionaries	4	Oct-Nov	76

Details of FLD on Enterprises

Farm Implements

Details of FLDs on Agriculture Engineering implemented during Jan-2023 to Dec-2023

K K N m	Seas on	Them atic area	Technolo gy for demonstr ation	Crop/ Enter prise Categ ory	Name of Crop/ Enterpr ise	Name of Variety/Tec hnology/ Enterprise	Farming Situation (rainfed/irrigat ed/semi- irrigated)	Comple ted/Ong oing	Crop- Area (ha) / Entrep - No.	S C	No. S T	of farm Oth ers	Gene ral
-	-	-	-	-	-	-				-	-	-	-

Economic Impact of Agriculture Engineering FLD

KVK	Technology	Name of	Name	Name of	* D	ata on	Av	erage	Average		Avera	age Net	Benefi	t-Cost
Name	for	Crop/	of	Unit	parai	parameter in		ost of	G	ross	Re	turn	Ratio ((Gross
	demonstratio	Enterprise	Perfor		rela	relation to		ivation	Re	eturn	(Rs	s/ha)	Retu	ırn /
	n	_	mance		tech	technology		(Rs/ha)		s/ha)			Gross	Cost)
			parame		demo	demonstrated								
			ters /		FP			RP	FP	RP	FP	RP	FP	RP
			indicat		(T_1)	(T_2)	$(T_1$	(T_2)	$(T_1$	(T_2)	(T_1)	(T_2)	(T_1)	(T_2)
			ors)					
-	-	-	-	-			-	-	-	-	-	-	-	-

^{*}Field efficiency, labour saving etc.

Livestock Enterprises

Details of FLDs on Animal Science implemented during Jan-2023 to Dec-2023

KVK	Thematic	Technology for	Name of	Name of	Completed/	No. of unit		No.	of farmers	8
Name	area	demonstration	Enterprise	Breed	Ongoing	(animals, poultry birds etc.)	SC	ST	Others	Gen
Satna	Dairy Managem ent	Demonstration on management to control the Lumpy disease in cattle.	Dairy	Cross breed of cattle	Complete	10	0	10	0	0
Satna	Improved breed	Demonstration of improved poultry birds in back yard system	Poultry		Complete	32	4	0	0	0
Satna	Disease Manage ment	Demonstration of Combination of flower juice and powdered seeds of Cassia tora (Sanay) for treatment of diarrhoeic goats.	Goatery		Complete	10	0	0	10	0

					i

Economic Impact of Animal Science FLD

KVK Name	Technology for	Name of Enterpri	Perform parame			ita on neter in		rage st of		rage oss		rage eturn	B:C I (Gr	Ratio
Name	demonstratio	se	indicators		relation to cultivation		Return		(Rs/ha)		Retu	ırn /		
	n					technology demonstrated		/ha)	(Rs	/ha)			Gross	Cost)
			Name of Name of Parameter unit		FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁	RP (T ₂	FP (T ₁)	RP (T ₂	FP (T ₁)	RP (T ₂)
			2 42 42	G2220	(-1)	(-2)	(-1)	(-2)))	(-1)	(12	(-1)	(-2)
Satna	Vaccination	Dairy	Milk Producti on	Lit/d ay	2.2	4.5	55.5	72.25	121	247.5	65.5	175.25	2.18	3.42
Satna	Kegg Golden breed of Poultry	Poultry	Body Weighy at 60 days of age	Kg/ bird	1.6	2.4	58.5	73.5	240	360	181.5	286.5	4.10	4.89
Satna	ITK Based Treatment	Goatery	Body after three month of treatmen t	Kg / Goat	11.6	14.48	605	689	2320	2880	1715	2190	3.83	4.17

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

Details of FLDs on Fishery implemented during Jan-2023 to Dec-2023

KVK	Thematic	Technology for	Name of	Completed/Ongoing	Area (ha) /		No.	of farmers	S
Name	area	demonstration	Enterprise		Entrep - No.	SC	ST	Others	General
-	-	-	-		-	-	-	-	-

Economic Impact of Fishery FLD

KVK	Technology	Name of	Perforn	nance	Dat	ta on	Ave	rage	Ave	rage	Ave	rage	B:C	Ratio
Name	for	Enterprise	parameters /		paran	neter in	Cos	st of	Gr	oss	Net R	eturn	(Gı	oss
	demonstrati		indicators		relation to cultivation		Ret	turn	(Rs	/ha)	Retu	ırn /		
	on				technology		(Rs/ha)		(Rs	/ha)			Gross	Cost)
					demonstrated									
			Name of	Name of	FP	RP	FP	RP	FP	RP	FP	RP	FP	RP
			Parameter unit		(T_1)	(T_2)	(\mathbf{T}_1)	(T_2)	$(T_1$	(T_2)	(T_1)	(T_2)	(T_1)	(T_2)
)))		
_	-				-	-	-	-	-	-	-	-	-	-

Information about Home Science FLDs - (For All Thematic Area)

Thematic area	Technology demonstrated	Name of Crop/	Crop- Area		N	o. of farme	rs
		Enterprise	(ha) / Entrep - No.	SC	ST	Others	General
Nutritional Security	Demonstration on sprouted cowpea feeding to malnourished children under 5 years	Cowpea	10	2	3	4	1
Nutritional Security	Demonstration of nutritional Kitchen garden for year round production of vegetables to meet family requirement	Kitchen garden	20	20	0	0	0
Nutritional Security	Demonstration on Drumstick dry leaf powder as daily dietary supplement for anemic adolescent	Drumstick	10	05	02	02	01

Economic Performance Home Science FLD: (Drudgery Reduction)

Technology for						Perfo	rmance	Indica	ator / I	Paramo	eter			
demonstration	Output *		Est. Energy Expenditure kj/min.			WHR beat/min		tion	9 incre in effici	ease n	Co	rdiac st of ork	% \$	Saving of cardiac Cost
	T1	T2	T1	T2	T1	T2	drudg T1	T2	T1	T2	T1	T2	T1	T2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

^{*}Kindly use Unit as per the machine/implement/equipment used for drudgery reduction

Economic Performance Home Science FLD: (Income Generation)

Technology for				F	Performanc	e Indicator	· / Parameter			
demonstration	Production per unit (Q/No/Lit)			e Cost of Rs/unit)	Average (Return(R		Average Ne Return(Rs/t			nefit-Cost Ratio ss Return / Gross Cost)
	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
-	_	-	-	_	_	_	_	_	-	-

Economic Performance Home Science FLD: (For value addition)

Technology for demonstration				Po	erform	ance Indica	tor / Par	ameter				
demonstration	Compo	sition of	Produc	tion per	Ave	rage Cost	Averag	ge	Average	Net	Benefi	it-Cost Ratio
	pro	duct	unit (unit (Q/ Lit) of input Gro			Gross	Return	Return		(Gross	s Return /
					(1	Rs/unit	(Rs/	unit)	(Rs/u	nit)	Gross	Cost)
	T1	T2	T1	T2	T1	T2	T1 T2 T1 T2		T2	T1	T2	
-	-	-	-	-	-	-	-	-	-	-	-	-

Economic Performance Home Science FLD: (For Nutritional security)

Technolog y for	Perf	ormance Parame		tor /			Nutri	ent Int	ake	(Unit)			Ant	hropo	metri	c meas	urem	ents
demonstr ation	Name of	f Product	Cons	capita umpti n/ day	Ene (kc	ergy eal)	Pro (g	tein m)		ron ng)	Calc (m	cium ng)			Incre Heigh	ase in at (cm	BM ((We (K) (Heig n m Heig n n	eight g)/ ght(i n) * ght(i
	T1	T2	T1	T2	T1	T2	T1	T2	T 1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Demonstr ation on sprouted cowpea feeding to malnouris hed children under 5 years	Other vegeta ble	Drumst icks leaves	150 gm	25 gm drie d pow der	45	67	2.5	5.9	3. 2	6	46 6	85 1	42.	44 .8	149 .9	152 .8	18 .8	19 .2
Demonstr ation of nutritiona 1 Kitchen garden for year round productio n of	Gener al Diet	General Diet + Sproute d Cowpea	325	365	10 27	13 63	49. 49	73. 01	5 4	62. 27	253 .5	363 .5	0.2	0. 68	1.0 2	1.8	0. 15	0. 24

vegetable s to meet family requirem ent																		
Demonstr ation on Drumstic k dry leaf powder as daily dietary suppleme nt for anemic adolescen t	local veget able	All veg.	110	175	26 0	26 5	5	10	1. 8	3.9	8	10	2(48 to 50	3(48 to 51	148	150	22 .8	22 .7

Cluster Demonstration of Oilseed and Pulses under NFSM (2023)

Sl.	Crop	Thematic	Technology for	Critical	Season and	Area	No. of farmers/
No.	•	area	demonstration	inputs	year	(ha)	demonstration
1	Blackgram	Integrated crop Management	Improved variety, Weed Management, Pest Management	Seed, Weedicide, Insecticide	Kharif 2023-24	50	125
2	Pigeonpea	Integrated crop Management	Improved variety, Weed Management, Pest Management	Seed, Weedicide, Insecticide	Kharif 2023-24	50	125
3	Lentil	Integrated crop Management	Improved variety, Weed Management, Pest Management	Seed, Weedicide Pesticide	Rabi 2023-24	50	125
4	Soybean	Integrated crop Management	Improved variety, Seed treatment	Seed, Fungicide	Kharif 2023-24	20	50
5	Sesame	Integrated crop Management	Improved variety, Weed Management, Disease Management	Seed, Weedicide, Fungicide	Kharif 2023-24	10	25
6	Mustard	Integrated crop Management	Improved variety, Nutrient Management, Pest Management	Seed, Insecticide	Rabi 2023-24	50	125

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	Sept, Dec and March	146
2	Farmers Training	6	July and Oct	475
3	Media coverage	6	Sept, Dec and March	Mass
4	Training for extension functionaries	2	June and Oct	40

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Category	Category	Sub Theme	Training Title	No.	Dura			rtic	ipar	ıts			
(F/ FW /				of	tion	Ge	en	SC	C	S	Т	Ot	the
F &FW)				Cour	(Days			i				r	'S
				ses)	M	F	M	F	M	F	M	F
F &FW	Crop Production	Resource Conservation	Improved sowing techniques for	1	1	1	0	1	0	0	0	9	0
		Technologies	enhancing productivity of kharif			,							
			pulses and oilseed crops										

Category	Category	Sub Theme	Training Title	No.	Dura			Pa	rtic	ipar	ıts		
(F/ FW / F &FW)			J	of Cour	tion (Days	Ge	en	S		S		Otl rs	
				ses)	M		M	F	M	F		F
F &FW	Crop Production	Resource Conservation Technologies	Zero tillage technology of wheat under semi-irrigated condition	1	1	1 0	0	3	0	0	0	7	0
			in rice-wheat cropping sequence										
F &FW	Crop Production	Crop Diversification	Summer cultivation of Green	1	1	2	0	2	1	0	0	1	0
			gram and Black gram for crop									4	
			intensification										
F &FW	Crop Production	Micro irrigation	Water saving and micro irrigation technology for Wheat	-	-	-	-	-	,	-	-	-	-
F &FW	Crop Production	Seed production	Quality Seed Production of	1	1	0	0	0	0	1	7	0	0
			Kodo millet							3			
F &FW	Crop Production	Integrated Crop Management	Integrated Crop Management Practices in Sorghum	1	1	2	0	3	0	1	0	1 4	0
F &FW	Crop Production	Production of organic inputs	Organic crop production practices of Chickpea	1	1	1	0	1	0	0	0	1 9	0
F & FW	Horticulture	Off season vegetables	Profitable vegetable based										
	(Vegetable Crops)		cropping pattrens for								l		
			marginal farmers under									1	
				1	1	^	_			1	0	1	^
T 0 TW	TT 4 * 3 4	000	irrigated conditions	1	1	0	0	6	0	1	0	8	0
F & FW	Horticulture	Off season vegetables	Improved production and		>								
	(Vegetable Crops)		management practices in									4	
			Kharif tomato production	1	1	0	0	1	0	0	0	5	0
F & FW	Horticulture	Nursery raising	Nursery raising techniques of								1		
	(Vegetable Crops)		kharif season vegetables	1	1	0	1	1	9	0	0	0	9
F & FW	Horticulture	Production and	Improved production and										
	(Vegetable Crops)	Management	management practices in								1	2	
		technology	onion and potato cultivation	1	1	3	0	3	6	7	6	4	0
F & FW	Horticulture (Fruits)	Training and Pruning	Training and pruning newly	1	1	5	U	5	0	4	0		0
1. 00 1. 44	Horuculture (Fruits)	Training and Truining		1	1	_	_	^			0		0
E 0 EW	TT (* 14 (F *4)	T 1D .	planted fruit plants	1	1	0	0	0	0	9	0	0	0
F & FW	Horticulture (Fruits)	Training and Pruning	Training and Pruning							2			
			Operations in Fruit Orchards	1	1	1	1	1	1	3	0	0	0
F & FW	Horticulture (Fruits)	Layout and	Layout and Planting							1			
		Management of	technique of fruit orchards	1	1	0	0	0	0	6	0	0	0
F & FW	Horticulture (Fruits)	Orchards Layout and	technique of fruit orchards	1	1	U	U	U	U	U	U	U	U
гаги	Horuculture (Fruits)	Management of	Layout and Planting							3			
		Orchards	technique of fruit orchards	1	1	0	0	0	0	4	0	0	0
F & FW	Horticulture (Fruits)	Layout and	•										
		Management of	Management Practices in							4			
		Orchards	Newly established Orchard	1	1	0	0	0	0	3	0	0	0
F & FW	Horticulture (Fruits)	Cultivation of Fruit	Importance of Fruits in Good										
			health and nutrition of							1			
			Adolescent girls	1	1	1	1	1	1	5	0	0	0
F & FW	Horticulture (Fruits)	Management of young	Management Practices in							4			
		plants/orchards	Newly established Orchard	1	1	0	0	0	0	6	0	0	0
F & FW	Horticulture (Fruits)	Management of young	Importance of Fruits in Good	_		Ť		Ť					
	(= 2 3235)	plants/orchards	health and nutrition of human							3			
			beings	1	1	1	1	1	1	4	0	0	0
F & FW	Horticulture (Fruits)	Management of young		1	1	1	1	1	1	+	U	U	U
TXFW	Hornculture (Fruits)	plants/orchards	Importance of Fruits in Good										
		rama, oronardo	health and nutrition of human			_	_	_		_	2		_
			beings	1	1	0	0	0	0	6	4	0	0
F & FW	Horticulture(Spices)	Production and	Training programme for										
		Management	tribal farm women on "value										
		technology	addition of Karonda (Carissa								4		
			carandas)"	1	3	0	0	0	0	5	3	0	0
F&FW	Horticulture(Spices)	Processing and value	,										
		addition		<u> </u>									

Category (F/ FW /	Category	Sub Theme	Training Title	No. of	Dura tion	G	en	Pa		ipan S'		Ot	he
F &FW)				Cour ses	(Days	M	F	M	F	M	F	M	
F&FW	Horticulture(Spices)	Natural Farming	Nautral farming practices in				_				_	1	
			Horticultural crops	1	2	7	0	5	0	3	0	4	0
F&FW	Soil Health and Fertility Management	Soil & water testing	Technique of Soil sampling	1	1	1	0	4	9	1	1	1	0
F&FW	Soil Health and Fertility Management	Management of Problematic soils	-	-	-	-	-	-	-	-	-	-	-
F&FW	Soil Health and	Micro nutrient	-	-	-	-	Î	-	-	-	-	-	_
F&FW	Fertility Management Soil Health and	deficiency in crops Nutrient Use Efficiency	_	_	- ^	_	_				7	-	_
	Fertility Management	·											
F&FW	Soil Health and Fertility Management	Balance Use of fertilizer	-	-	-	-	-	-	-	-	-	-	-
F&FW	Soil Health and Fertility Management	Soil & water testing	-	-	-	1	1	-	-	-	-	1	-
F&FW	Soil Health and	Organic Farming	-	-	-	-	-	-	-	-	-	-	_
F&FW	Fertility Management Soil Health and	Others (Pl. Specify)	_	-	-	- 1	_	_	_	-	_	-	_
	Fertility Management												
F&FW	Livestock Production and Management	Dairy Management	-	-	-	-	-	-	-	-	-	-	1
F&FW	Livestock Production and Management	Poultry Management		·	-	-	-	-	-	1	1	1	-
F&FW	Livestock Production and Management	Piggery Management	-	-	-	-	-	-	-	-	-	-	-
F&FW	Livestock Production	Rabbit Management		-	-	-	-	-	-	-	-	-	-
F&FW	and Management Livestock Production	Animal Nutrition		-	-	-	-	-	-	-	-	-	-
F&FW	and Management Livestock Production	Management Disease Management		_	_	_	_	_	_	-	_	-	_
	and Management												
F&FW	Livestock Production and Management	Feed & fodder technologies		-	-	-	-	-	-	-	-	-	-
F&FW	Livestock Production and Management	Production of quality animal products	-	-	-	-	-	-	-	1	1	1	-
F&FW	Livestock Production	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
F&FW	and Management Home Science/Women empowerment	Household food security by kitchen	-	-	-	-	-	-	-	-	-	-	-
		gardening and nutrition gardening											
F&FW	Home Science/Women	Design and	-	-	-	-	-	-	-	-	-	-	-
	empowerment	development of low/minimum cost diet											
F&FW	Home Science/Women empowerment	Designing and development for high	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women	nutrient efficiency diet Minimization of	Training on preventing nutrient	1	1	2	1	0	0			1	0
F&FW	empowerment	nutrient loss in	impairment during anola value	1	1	2	1	8	0			2	U
F&FW	Home Science/Women	processing Processing & cooking	addition -	-	-	_	_	_	_	_	_	_	-
	empowerment												
F&FW	Home Science/Women empowerment	Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women	Storage loss minimization	-	-	-	-	-	-	-	-	-	-	-
	empowerment	techniques											
F&FW	Home Science/Women empowerment	Value addition	Training on Aonla Value Addition	1	1	0	0	0	0	0	2 0	0	0
F&FW	Home Science/Women empowerment	Value addition	Training to make stuffed chillies	1	1	0	0	0	1	0	7	0	2
F&FW	Home Science/Women	Value addition	Training on Aloo Papad Making	1	1	0	7	0	1	0	1	0	2
	empowerment		g - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				ĺ		0	-		-	_

Category	Category	Sub Theme	Training Title	No.	Dura			Pa	rtic	ipar	ıts		
(F/ FW / F &FW)				of Cour	tion (Days	Ge	en	S	\Box	S	Γ	Ot	-
,				ses) i	M	F	M	F	M	F	M	
F&FW	Home Science/Women empowerment	Value addition	Training in making potato chips	1	1	0	8	0	5	0	5	0	1 0
F&FW	Home Science/Women empowerment	Women empowerment	Training to make natural gulal from Palas flowers	1	1	0	3	0	3	0	5	0	9
F&FW	Home Science/Women empowerment	Location specific drudgery reduction technologies	-	-	-	-	1	1//1	1	-	-	-	-
F&FW	Home Science/Women empowerment	Rural Crafts	-	-	-	1	-		-	-		,	-
F&FW	Home Science/Women empowerment	Women and child care	-	-	-	1	1	-	1	-	1	-	-
F&FW	Home Science/Women empowerment	Others (Pl. Specify)	-	-	-	-	1	À	_	-	-	-	-
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in Rice crop	1	1	0	0	1 7	7	0	0	0	0
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in Onion crop	1	1	0	0	0	0	2 2	2	0	0
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in Okra Vegetable	1	1	9	3	0	0	7	1	9	0
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in Mustard crop	1	1	0	0	0	3	0	1	0	7
F&FW	Plant Protection	Production of bio control agents and bio pesticides	Production of eco frindlly bio- pesticides ie Neemastra ,Brasastra and Agaiastra	1	1	1	0	0	0	1 5	3	1	0
F&FW	Plant Protection	Income Generation	Beekeeping and honey production	1	2	0	0	0	0	0	2	0	0

B) OFF Campus

Category	Category	Sub Theme	Training Title	No.	Dur		7						
(F/FW/				of	atio	Ge	n	S	С	S	Т		-
F &FW)				Co urs	n (Dav	M	E	М	IF.	М	E		
				es	s)	IVI	ľ	171	I.	171	ľ	101	ľ
F &FW	Crop Production	Weed Management	Integrated weed management practices for Kodo millet	1	1	17		0	0	2	0	1	0
F &FW	Crop Production	Weed Management	Integrated weed management practices for Chickpea	1	1	12	0	0	0	0	0	8	0
F &FW	Crop Production	Resource Conservation Technologies	Direct Seeded Rice for minimizing cost of production in Rice	1	1	5	2	0	0	1	0	2	0
F &FW	Crop Production	Integrated Farming	Integrated farming system module for improving nutritional and economic security of small and marginal farmers.	1	1	2	0	0	0	0	0	1 8	0
F &FW	Crop Production	Climate Resilient Agriculture	Techniques of protecting crops against frost injury	1	1	12	0	1	0	2	0	5	0
F &FW	Crop Production	Natural Farming Practices	Natural Farming practices for minimizing cost of production and higher net return of Mustard	1	1	0	0	1 2	1 0	0	0	0	0
F &FW	Crop Production	Precision Farming	Aerial spraying of Nano fertilizers using Agri drone sprayer in Barley and Wheat	1	1	6	0	6	0	0	0	5	0

Category	Category	Sub Theme	Training Title	No.	Dur					ipan			
(F/ FW / F &FW)				of Co	atio	Ge	n	S	C	S	Т		the
r arw)				urs	n (Day	M	F	M	F	M	F		F
F & FW	Horticulture (Vegetable Crops)	Production of low volume and high value crops	Planning for year round production of vegetables	es 1	1 1	0	0	0	3	0	0	0	0
F & FW	Horticulture (Vegetable Crops)	Production of low volume and high value crops	Improved Production and management practices in Bittergourd cultivation	1	1	0	1	4	0	0	0	2	7
F & FW	Horticulture (Vegetable Crops)	Off Season	Summer Cultivation of cucurbitaceous vegetables	1	1	0	0	0	0	0	0	2 6	0
F & FW	Horticulture (Vegetable Crops)	Nursery raising	Nursery raising techniques of cucurbitaceous vegetables in polybags		1	2	0		0	2 7	9		0
F & FW	Horticulture (Fruits)	Layout and Management of Orchards	Layout, planting technique and moisture conservation method for planting fruit trees on farm bunds and wastelands	1	1	0	0		0	1 5	1 5	0	0
F & FW	Horticulture (Fruits)	Cultivation of Fruit	Planting technique of fruits	1	1	0	0	0	0	2	3 2	0	0
F & FW	Horticulture (Fruits)	Cultivation of Fruit	Planting technique of Fruit Plants	1	1	1	1		1	2	1 3	0	0
F & FW	Horticulture (Fruits)	Cultivation of Fruit	Plantation techniques for fruit plants	1	1	0	0	0	0	0	4 0	0	0
F & FW	Horticulture (Fruits)	Cultivation of Fruit	Plantation techniques for fruit plants	1	1	1	1	1	1	7	2	0	0
F & FW	Soil Health and Fertility Management	Micro nutrient deficiency in crops	Foliar Application of nutrient in field Vegetable crops	1	1	2	3	5	4	5	0	0	0
F & FW	Soil Health and Fertility Management	Soil fertility management	Reclamation of Problematic soil	1	1	10	0	0	0	0	0	0	0
F & FW	Soil Health and Fertility Management	Integrated Nutrient Management	Foliar Application of nutrient in field crops	1	1	0	0	1	0	0	8	0	5
F&FM	Soil Health and Fertility Management	Production and use of organic inputs	-	-	-	-	-	_	-	-	-	_	-
F&FM F&FM	Soil Health and Fertility Management Soil Health and Fertility	Management of Problematic soils Micro nutrient deficiency in	-	-	-	-	-	_	-	-	-	_	_
F&FM	Management Soil Health and Fertility	crops Nutrient Use Efficiency	-	-	-	-	-	- -	-	_ 	- -	<u> </u>	- -
F&FM	Management Soil Health and Fertility	Balance Use of fertilizer	-	-	-	-	-	-	-	-	-	-	-
F&FM	Management Soil Health and Fertility	Soil & water testing	-	-	-	-	-	-	-	-	-	-	-
F&FM	Management Soil Health and Fertility Management	Organic Farming	-	-	-	-	-	-	-	-	-	-	-
F&FM	Soil Health and Fertility Management	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
F&FM	Livestock Production and Management	Dairy Management	Care of newly borne calves in winter season	1	2	8	0	0	0	0	0	1 0	4
F&FM	Livestock Production and Management	Poultry Management	Feeding management in backyard system of poultry.	1	2	0	0	1 2	3	5	2	0	0
	Livestock Production	Piggery Management	_	_	_	_		<u> </u>	\vdash	_	-	_	<u> </u>

Category	Category	Sub Theme	Training Title	No.	Dur					ipan			
(F/FW/				of	atio	Ge	en	S	C	S	Г	Ot	
F &FW)				Co urs es	n (Day s)	M	F	M	F	M	F	M	
	and Management			CS	5)								
F&FM	Livestock Production and Management	Rabbit Management	-	-	-	-	-	-	-	ı	-	-	-
F&FM	Livestock Production and Management	Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-	-
F&FM	Livestock Production and Management	Disease Management	Importance of de- worming and vaccination in goat.	1	2	0	0	2	0	5	2	5	4
F&FM	Livestock Production and Management	Feed & fodder technologies	Forage management in lean period	1	2	8	7	2	1			2	3
F&FM	Livestock Production and Management	Feed & fodder technologies	Care and feeding of upgraded progeny of buffalo.	1	2	12	0	0		0	0	6	2
F&FM	Livestock Production and Management	Feed & fodder technologies	Green fodder production in rabi season.	1	2	12	0	0	0	0	0	9	0
F&FM	Livestock Production and Management	Feed & fodder technologies	Forage management in lean period for buffalo.	1	2	5	2	0	0	2	2	8	3
F&FM	Livestock Production and Management	Production of quality animal products	-		-	-	-	-	-	-	-	-	
F&FM	Livestock Production and Management	Others (Pl. Specify)		-	-	-	-	-	-	-	-	-	-
F&FM	Livestock Production and Management	Goat Management	Feeding management of pregnant goat	1	2	0	0	1	2	5	2	8	6
F&FW	Home Science/Women empowerment	Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Household food security by kitchen gardening and nutrition gardening	importance of nutritious gardens for rural women	1	1	0	3	0	0	0	2	0	3
F&FW	Home Science/Women empowerment	Design and development of low/minimum cost diet	To prepare balanced diet for women farmers based on the resources available at the village level	1	1	0	2	0	1 5	0	0	0	4
F&FW	Home Science/Women empowerment	Minimization of nutrient loss in processing	Training on preventing nutrient loss during tomato processing	1	1	2	0	8	0	0	0	0	1 3
F&FW	Home Science/Women empowerment	Processing & cooking	Tomato processing and value addition	1	1	0	0	0	6	0	0	3	1
F&FW	Home Science/Women empowerment	Value addition	Beal processing and value addition	1	1	0	0	0	0	1	1 5	0	0
F&FW	Home Science/Women empowerment	Women empowerment	Bitter guard and tomato Processing and value addition	1	1	1	2	0	0	1	2	1 5	6
F&FW	Home Science/Women empowerment	Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Processing & cooking	-	_	-	-	-	-	-	1	-	-	 L
F&FW	Home Science/Women empowerment	Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Storage loss minimization techniques	-	-	-	-	-	-	-	ı	-	-	-
F&FW	Home Science/Women empowerment	Value addition	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Women empowerment	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Rural Crafts	-	-	-	-	-	-	-	-	-	-]	-

Category	Category	Sub Theme	Training Title	No.	Dur			Pa	rtici	pan	ts		
(F/ FW / F &FW)				of Co	atio n	Ge	n	S		S	Г	Ot r	
				urs es	(Day s)	M	F	M	F	M	F		F
F&FW	Home Science/Women empowerment	Women and child care	-	-	-	-	-	-	-	-	-	-	-
F&FW	Home Science/Women empowerment	Others (Pl. Specify)	-	-	-	-	1	-	-	-	-	-	-
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in summer vegetable and green gram	2	1	11	0	2	0	3	0	8	0
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in rice crop	2	1	0	0	0	0	1 3	1 2	0	0
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in cucurbitaceous crop	2	1	12	0	2	0	0	0	1 3	0
F&FW	Plant Protection	Integrated Pest Management	Integrated Pest Management in kharif pulses crop	2	1	0	0	0	0.	1 9	6	0	0
F&FW	Plant Protection	Integrated Disease Management	Management of false smut disease in Rise crop	2	1	0	0	0	0	1 3	0	1	0
F&FW	Plant Protection	Plant protection measurement in summer vegetables	Plant protection measurement in summer vegetables	2	1	8	0	4	0	0	0	1	0
F&FW	Plant Protection	Integrated weed Management	Integrated weed Management in khaif crop	2	1	0	0	0	0	1 3	0	1 4	0
F&FW	Plant Protection	Integrated pest Management	Integrated insect and pest Management in potato	2	1	7	0	8	1	0	0	1	0
F&FW	Plant Protection	Integrated pest Management	Integrated insect and pest Management in chickpea	2	1	0	0	1 2	1 4	0	0	3	0
F&FW	Plant Protection	Integrated pest Management	Integrated insect and pest Management in Mustard	2	1	6	0	1 8	0	2	0	4	0

Details of Training Programmes conducted by the KVKs for Rural Youth

A. ON Campus

Thematic Area of training	Training Title	No. of	Duration]	Partic	ipants	3		
, and the second		Course	(Days)	Gei	n	S	C	S	Т	Oth	iers
		s		M	F	M	F	M	F	M	F
Nursery Management of Horticulture crops	Various propagation techniques involved in raising fruit plants nursery	1	7	13	0	5	0	1	0	8	0
Training and pruning of orchards	-	-	-	-	-	-	-	-	1	-	-
Protected cultivation of vegetable crops	-	-	-	-	-		- '	-	/- ^	1	-
Commercial fruit production	-	-	-	-	-	-	-		-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-	-
Seed production	Seed Production technology of onion and post harvest handling of seeds	1	3	5	0	2	0	0	0	14	0
Seed production	Quality Seed Production of Field crops	1	5	15	0	0	0	0	0	5	0
Production of organic inputs	Organic farming of Field crops	1	5	8	0	0	0	6	0	6	0
Vermi culture	-		-	-	-	-	-	-	-	-	-
Mushroom Production	Mushroom production	1	3	0	0	0	3	0	13	1	6
Bio pesticide and Bio fertilizer Production	Bio pesticide and Bio fertilizer Production	2	3	6	0	0	0	0	0	14	0
Sericulture	-	-		-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-		-	-	-	-	-	-	-	-	-
Value addition	Value addition of Karonda	1	3	0	0	0	0	0	41	0	0
Value addition	Valve addition of anola	5	5	10	8	2	10	0	0	10	16
Small scale processing	-	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-	-
Rural Crafts		-	-	-	-	-	-	-	-	-	-
Production of quality animal products		-	-	-	-	-	-	-	-	-	-
Dairying	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	_	_	-
Composite fish culture	-	-	-	-	-	-	-	-	-	_	-
Freshwater prawn culture	-	-	-	-		-		-	_	_	_
Shrimp farming	-	-	-	-	-	-	-	-	-	_	-
Pearl culture	-	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	_	_
Fry and fingerling rearing	-	-	-	-	_	_	-	-	-	-	-
Others(Pl. Specify)	-	-	-	-	-	-	<u>_</u> -	-	-	-	-

B. OFF Campus

Thematic Area of training	Training Title	No. of	Duration				Partic	ipants			
		Course	(Days)	Gen		S	C	S	Т	Oth	ners
		S		M	F	M	F	M	F	M	F
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	1	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	1	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-	-

Thematic Area of training	Training Title	No. of	Duration				Partic	ipants	3		
		Course	(Days)	Ger	1	S	C	S	T	Oth	iers
		S		M	F	M	F	M	F	M	F
Seed production	-	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-	-
Vermi culture	-	-	-	-	-	-	-	-	-	-	-
Mushroom Production	-	-	-	-	-	-	-	-	-	-	-
Bio pesticide and Bio fertilizer Production	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-		-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	4	-	-	-	-
Value addition	-	-	-	-	-	-	- \	-	-	-	-
Small scale processing	-	-	-	-	-	_	- "	-	/	,	-
Post Harvest Technology	-	-	-	-	-		-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	- 4	į		1	-	-	-	-
Production of quality animal products	-	-	-	-	1		1	1	-	-	-
Dairying	-	-	-	_	4	-	,	1	-	-	-
Sheep and goat rearing	-	-	-	-	-	1	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-	-	-	-	-
Rabbit farming	-	-	-	-	-	-	-	-	-	-	-
Poultry production	-	-	-	-	-	-	-	-	-	-	-
Ornamental fisheries	-	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	•	-	-	-	-	-	-	-
Freshwater prawn culture	-		-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-	-
Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-

Details of Training Programmes conducted by the KVKs for Extension Personnel A. ON Campus

Thematic Area of training (if other please specify	Training Title	No. of	Duratio			Par	rticip	<u>ants</u>			
name)		Courses	n	G	en	S	C	S	T	Oth	ners
			(Days)	M	F	M	F	M	F	M	F
Productivity enhancement in field crops											
Integrated Pest Management	Integrated Pest Management in kharif crops	1	1	11	2	1	0	0	0	3	2
Integrated Pest Management	Integrated Pest Management in Rabi crops	1	1	4	2	2	0	0	0	4	0
Integrated Nutrient management	Diagnosis of nutrient deficiencies in Rabi pulses and oilseed crops and their remedial measures	1	1	12	2	1	0	0	0	1	0
Natural Farming	Natural Farming in Horticultural Crops	1	2	6	2	0	0	0	0	5	3
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-	
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	ı	-
Women and Child care	-	-	-	-	-	-	-	-	-	ı	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	ı	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	ı	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	ı	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	ı	-
Household food security	-	-	-	-	-	-	-	-	-	-	_
	-	-	-	-	-	-	-	-	-	-	-

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B. OFF Campus

Thematic Area of training (if other please specify name)	Training Title	No. of	Duration			Pa	rticip	ants			
		Cours	(Days)	Gen		S	C	S	T	Otl	hers
		es		M	F	M	F	M	F	M	F
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	ı	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	ı	-	-	-	-	-	-	-
Management in farm animals	-	-	-	ı	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	ı	-	-	-	-	-	-	-
Household food security	-	-	-	ı	-	-	-	-	-	-	-
Productivity enhancement in Hort crops	Recent										
	technologies in										
	high valued										
	horticultural										
	crops for										
	enhancing										
	farmers										
	income.	1	2	10	5	0	0	0	0	2	2

Details of Vocational training programmes for Rural Youth conducted by the KVKs

Thematic Area	Sub Theme	Training title	No of	Duration		Nur	nber				ries	
			Courses	of training (days)	Ge	n	S	С	S'	Т	Otl	ner S
					M	F	M	F	M	F	M	F
Crop production and management	Commercial floriculture											
Crop production and management	Commercial fruit production	Variuos propagation techniques involved in raising fruit plants nursery	1	7	13	0	5	0	1	0	8	0
Crop production and	Commercial vegetable production	Seed										
management		Production										
		technology of										
		onion and post										
		harvest										
		handling of									1	
		seeds	1	3	5	0	2	0	0	0	4	0
Natural farming	Natural farming	Production and application of Bio-pesticide and Bio-fertilizer	2	1	11	0	2	0	2	0	8	0
Crop production and management	Organic farming	-	-	-	-	-	-	-	-	-	1	-
Crop production and management	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	Value addition	Value addition of Aonla	1	3	0	0	0	0	0	4	0	0
Post harvest technology and value addition	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
Livestock and fisheries	Dairy farming	-	-	-	-	-	-	-	-	-	-	-
Livestock and fisheries	Composite fish culture	-	-	-	-	-	-	-	-	-	-	-
Livestock and fisheries	Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-

Thematic Area	Sub Theme	Training title	No of	Duration		Nur	nber	of E	Benef	iciaı	ies	
			Courses	of training	Ge	n	S	С	S	Γ	Oth	er
				(days)	3.5		3.5		3.5		S	
Livestock and fisheries	Piggery		_	-	M	F	M	F	M	F	M	F
Livestock and fisheries	Poultry farming	-	-	-		-	-	_	_	_		_
Livestock and fisheries	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-		$\overline{}$
	Vermi-composting	-	-	-	-	-	-	-	-	-		-
Income generation activities		-	-	-	-	-	-	-	-	-	-	_
Income generation	Production of bio-agents, bio-	-	-	-	-	-	-	-	-	-	-	-
activities	pesticides,											
Income generation	Bio-fertilizers etc.	-	-	-	-	-	-/	1	1	-]	-	-]
activities					4							
Income generation	Repair and maintenance of farm	-	-	-	-	-	-	-	-	,	-	-
activities	machinery & implements											1
Income generation	Rural Crafts	-	-	-	-	-	-	7	-	-	-	-
activities												
Income generation	Seed production	-	-	-	-	-	-	-	_	-	-	-
activities	_											1
Income generation	Sericulture	-	-		-	-	-	-	-	-	-	-
activities												1
Income generation	Mushroom cultivation	-	-	-	-	-	-	-	-	-	-	-
activities												.
Income generation	Nursery, grafting etc.	-	-		-	-	-	-	-	-	-	-
activities												.
Income generation	Tailoring, stitching, embroidery,				-	-	-	-	-	-	-	-
activities	dying etc.		> V									.
Income generation	Agril. para0workers, para0vet	-	-	_	-	-	-	-	-	-	-	-
activities	training											
Income generation	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
activities												
Agricultural Extension	Capacity building and group dynamics	-		-	-	-	-	-	-	-	-	-
Agricultural Extension	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-

Table 5.5. Sponsored Training Programmes

Client	Thematic area	Sub-theme	Training Title	No. of	Durat		N	No. o	f Pa	rtici	pan	ts		Sponso	Fund
(F &FW/ FW/ RY/ IS)			-	course	ion (days)	Ge		Ot	s	S		S		ring Agency	recei ved for train ing (Rs.)
					_	M	F	M	F	M	F	M		******	
F &FW	Productivity enhancement in field crops	Increasing production and productivity of crops	Recent Agronomic Intervention s for Kharif field crops	1	1	7	3	6	3	0	0	4	1	JNKV V,Jabal pur	-
F &FW	Productivity enhancement in field crops	Commercial production of vegetables	Recent Agronomic Intervention s for Rabi field crops	1	1	1 1		1	3	0	0	3	1	JNKV V,Jabal pur	
F &FW	Crop production and management	Production and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-
F &FW	Crop production and management	Fruit Plants	Training and pruning newly planted fruit plants	1	1	0	0	0	0	4 9	0	0	0	Biover sity Intern ational	2.4 Lak h
F &FW	Crop production and management	Fruit Plants	Training and Pruning Operations	1	1	1	1	1	1	2 3	0	0	0		

Client	Thematic area	Sub-theme	Training Title	No. of	Durat		ľ	No. o	f Pa	rtici	pan	ts		Sponso	Fund
(F &FW/ FW/ RY/ IS)	Themane area	Sub theme	Truming True	course	ion (days)	Ge		Ot	the 's	S		S	T	ring Agency	recei ved for train ing (Rs.)
						M	F	M	F	M	F	M	F		(143.)
			in Fruit												
		E ' Di	Orchards									_			
F &FW	Crop production and management	Fruit Plants	Layout and Planting technique of fruit orchards	1	1	0	0	0	0	1 6	0	0	0		-
F &FW	Crop production and management	Fruit Plants	Layout and Planting technique of fruit	1	1	U	U	U	U	3	U	U	U		
			orchards	1	_ 1	0	0	0	0	4	0	0	0		
F &FW	Crop production and management	Fruit Plants	Managemen t Practices in Newly established Orchard		1	0	0	0	0	4 3	0	0	0		
F &FW	Crop production and management	Fruit Plants	Importance of Fruits in Good health and nutrition of Adolescent			1	1	1	1	1		0	0		
F &FW	Crop production and management	Fruit Plants	girls Mangement Practies in Newly established Orchard	1	1	0	0	0	0	5 4 6	0	0	0		
F &FW	Crop production and management	Fruit Plants	Importance of Fruits in Good health and nutrition of human beings	1	1	1	1		1	3 4	0		0		
F &FW	Crop production and management	Fruit Plants	Importance of Fruits in Good health and nutrition of human beings	1	1	0	0		0	6	2 4		0		
F &FW	Crop production and management	Fruit Plants	Training programme for tribal farm women on "value addition of Karonda (Carissa carandas)"	1	3		0				4 3		0		

Client	Thematic area	Sub-theme	Training Title	No. of	Durat		ľ	No. o	f Pa	rtici	pan	ts		Sponso	Fund
(F &FW/ FW/ RY/ IS)				course	ion (days)	Ge	en	Ot	the 's	S	C	S	Т	ring Agency	recei ved for train ing (Rs.)
-		0 111				M	F	M	F	M	F	M	F		
F &FW	Crop production and	Ornamental plants	-	-	-	-	-	-	-	-	-	-	-	-	-
F	management Crop production and	Spices crops	_	_	_	_	_	_	_	_	_		-	_	-
&FW	management	Spices crops			_						_				
F	Crop production and	Soil health and fertility	-	-	-	-	-	-	-	-	-	- \	-	-	-
&FW	management	management										Ì			
F	Crop production and	Production of Inputs at	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW	management	site													
F	Crop production and	Methods of protective	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW F	management	cultivation Others(Pl. Specify)													
&FW	Crop production and management	Others(Pl. Specify)	-	-	-	-	-	-	-		-	-		-	-
F	Post harvest technology	Processing and value	_	_	_	-	-		_	-		-	_	_	_
&FW	and value addition	addition													
F	Post harvest technology	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW	and value addition														
F	Farm machinery	Farm machinery, tools	-	-	-	1	í	1	-	-	-	-	-	-	-
&FW		and implements							ŀ						
F	Farm machinery	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW	Livestock and fisheries	I :										_			
F &FW	Livestock and fisheries	Livestock production and management	-	-	-	-	-	-	-	-	-	-	-	-	-
F	Livestock and fisheries	Animal Nutrition	- /	-	_	_	_	_	_	_	_	_	_	_	_
&FW	Livestock and fisheries	Management													
F	Livestock and fisheries	Animal Disease	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW		Management													
F	Livestock and fisheries	Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW					ļ										
F	Livestock and fisheries	Fisheries Management	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW F	Livestock and fisheries	Others(Pl. Specify)	-	_	_	_	_	_	_	_	_	_	_	_	-
&FW	Livestock and fisheries	Omers(Fr. Specify)		-	-	-	-	-	_	-	_	-	-	-	-
F	Home Science	Household nutritional	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW		security			1										
F	Home Science	Economic	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW		empowerment of			1										
T.	TT 0:	women		1	1										<u> </u>
F e-EXX	Home Science	Drudgery reduction of	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW F	Home Science	women Others(Pl. Specify)	_	_	_	_	-	_	_	_	_	_	_	_	_
&FW	Home Science	Omers(Fr. Specify)	_	_	1 -	-	-	-	_	-	_	-	-	_	_
F	Agricultural Extension	Capacity Building and	_	_	-	-	-	-	-	-	-	-	-	-	-
&FW	g	Group Dynamics			1										
F	Agricultural Extension	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	-
&FW															

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of		Farmers		Extension Officials				Total	
	activities	Male	Female	Total	Male	Female	Total	Male	Female	Total
		79	19	98	1.5	0.5	2	80.5	19.5	100
Field Day	15	398	56	454	12	4	16	410	60	470
Kisan Mela	2	786	219	1005	11	6	17	797	225	1022
Kisan Ghosthi	53	1329	309	1638	13	7	20	1342	316	1658
Exhibition	8	802	191	993	23	8	31	825	199	1024
Film Show	17	201	136	337	3	6	9	204	142	346
Method Demonstrations	21	243	183	426	4	6	10	247	189	436
Farmers Seminar	4	407	176	583	22	17	39	429	193	622
Workshop	6	585	523	1108	11	7	18	596	530	1126
Group meetings	27	204	342	546	0	0	0	204	342	546
Lectures delivered as resource persons	47	1074	753	1827	151	82	233	1225	835	2060
Newspaper coverage	59	0	0	0	0	0	0	0	0	Mass
Radio talks	3	0	0	0	0	0	0	0	0	Mass
TV talks	1	0	0	0	0	0	0	0	0	Mass
Popular articles	12	0	0	0	0	0	0	0	0	Mass
Extension Literature	11	7827	2476	10303	16	3	19	7843	2479	10322
Advisory Services	972	1064	64	1128	117	4	121	1181	68	1249
Scientific visit to farmers field	114	562	342	904	37	17	54	599	359	958
Farmers visit to KVK	1	8755	2763	11518	27	19	46	8782	2782	11564
Diagnostic visits	79	136	23	159	27	15	42	163	38	201
Exposure visits	1	35	29	64			0	35	29	64
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0
Soil health Camp	5	197	34	231	3	0	3	200	34	234
Animal Health Camp	72	1113	385	1498	13	7	20	1126	392	1518
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	9			0			0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	10	14	178	192	0	0	0	14	178	192
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	27	782	108	890	32	17	49	814	125	939
Technology Week	27	5077	1942	7019	45	23	68	5122	1965	7087
Total	13144	31591	11232	42823	567	248	815	32158	11480	43638

Name of media	Number of	Name of channel/	Place of delivery or	Coverage of the media
	events/activity	Newspaper used	publication	(Local/ Regional/National)
CD/DVD				
Radio talks				
TV talks	02	MP –Kisan	KVK,Majhgawan	Regional
Newspaper coverage	59	Dainik Bhaskar Navsandesh , dainik jaagran ,Star samachaar	KVK,Majhgawan	Regional
Kisan Mela	02	Dainik Bhaskar Navsandesh , dainik jaagran ,Star samachaar	KVK,Majhgawan	Regional
Extension Litrature	12	-	-	-
Internet (Youtube)	03	Krishi Vigyan Kendra Satna	Youtube	National
Social media (Whats App, Facebook,	254	Kvk Majhgawan Satna drikvksatna	Facebook Instagram	National & international

Instagram, Twitter	DRI KVK Satna	Twitter	
etc.)			



Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety (pl. give the name of variety	Quantity (qtl.)	Value (Rs.)	Provided to no. of Farmers/ society	Expected area coverage (ha.)
		instead of local)	(qu.)		rarmers/ society	coverage (na.)
CEREALS	Paddy	JR 81	7.75	38750	24	15.50
CEREALS	Tuday	Pant 11	20.6	103000	26	41.20
CEREALS		Govind Dhan	17.2	86000	24	34.40
CEREALS		Swarn Shreya	11.3	56500	25	22.60
CEREALS		Bauna Dubraj	6.25	37500	23	50.00
CEREALS		Bauna Safari	4.05	24300	26	32.40
CEREALS	Wheat	JW 3288	5.4	28080	15	5.40
CEREALS		K1317	3.56	18512	13	3.56
CEREALS		DBW 187	9	46800	15	9.00
CEREALS		GW 322	6.18	32136	14	6.18
CEREALS		GW 451	3.43	17836	14	3.43
Millet	Kodo Millet	TNAU 86	0.25	3000	20	4.17
Millet	Finger Millet	VL 376	1.6	19200	55	26.67
Millet	Barnyard Millet	VL Madira 207	1	8000	46	16.67
Millet	Pearl Millet	P 1201	0.4	4800	20	6.67
OILSEEDS	Sesame	TKG 308	0.82	12300	61	16.40
OILSEEDS	Niger	JNS 28	0.5	7500	25	10.00
OILSEEDS	Mustard	PM 28	1.79	23270	73	35.80
OILSEEDS		Giriraj	2.09	27170	74	41.80
OILSEEDS		RH 761	0.54	7020	75	10.80
PULSES	Greengram	PM 5	0.25	4250	17	1.67
PULSES		Pusa Vishal	1	17000	19	6.67
PULSES		P 1431	2	34000	18	13.33
PULSES	Blackgram	PU 10	0.48	8160	6	3.20
PULSES	G1 . 1	Indira Urd 1	0.41	6970	7	2.73
PULSES	Chickpea	RVG 202	1.62	12150	5	2.03
VEGETABLES	Okra	Kashi Pragati	0.304	9120	130	2.53
VEGETABLES	Spinach	All Green	0.2	6000	163	0.8
VEGETABLES	Bottlegourd	Pusa Naveen	0.0253	2530	141	0.84
VEGETABLES	Tomato	Kashi Aman	0.0315	15750	441	6.30
VEGETABLES	Brinjal	NB-5	0.0173	6920	110	3.46
VEGETABLES	Bittergourd	Kashi Harit	0.0099	5940	65	0.25
VEGETABLES	Spngue gourd	Sneha	0.0109	1090	82	0.27
VEGETABLES	Fenugreek	Pusa Early	0.545	5450	20	2.18
		Bunching				
VEGETABLES	Fenugreek	Kasuri Methi	0.007	700	21	0.14
VEGETABLES	Pumpkin	Kashi Harit	0.007	700	58	0.35
VEGETABLES	Amaranthus	Red	0.0206	2060	85	0.17
VEGETABLES	Radish	Kashi Mooli	0.0525	1837.5	91	0.53
VEGETABLES	Carrot	1xubiii iviOOII	0.0323	1100	28	0.22
VEGETABLES	Peas	Kashi Smridhi	0.011	2720	20	0.22
VEGETABLES						
	Onion	ALR	0.08	8000	22	0.80
SPICES CROP	Turmeric	Pant Pitambh	0.47	2820	4	0.03
SPICES CROP	Coriander	Pant Haritima	0.382	11460	151	3.82
SPICES CROP	Chillies	Kashi Anmol	0.0178	5340	94	3.56
FLOWER CROPS	Marigold	Pusa Narangi	0.012	7200	10	0.80

FRUIT CROP	Papaya	Coorg Honey Dew	0.0048	2880	43	0.96
OTHERS						
(Specify)						

PLANTING MATERIALS

Sl. No.	Сгор	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
FRUITS	Papaya	Coorg Honey Dew	2207	44140	216	0.883
FRUITS	Mango	Dushehari, Amarpali	590	59000	142	0.236
FRUITS	Mango	Seedling	50	2000	17	0.180
FRUITS	Sweet Lime	Kagzi	1079	64740	293	2.698
FRUITS	Karonda	Pant Manohar	704	17600	73	0.634
	Bael	NB-9	69	4140	36	0.248
FRUITS	Orange	Nagpur Orange	69	4140	33	0.173
FRUITS	Pomegrannate	Bhagua	283	7075	70	0.453
FRUITS	Aonla	Seedling	259	6475	79	0.932
FRUITS	Aonla Budded	NA-7,NA-10, NA-6	501	30060	172	1.804
FRUITS	Guava Budded	Shweta, Lalit	727	43620	141	2.617
FRUITS	Guava	Seedlings	232	5800	88	0.835
FRUITS	Dragon Fruit	-	55	2750	23	0.050
FRUITS	Passion fruit	-	97	4850	41	0.155
FRUITS	Woodapple	Desi	16	320	7	0.078
FRUITS	Jamun	Raa	100	6000	31	0.640
FRUITS	Hanuman fal	Local	37	1850	18	0.181
FRUITS	Moringa	PKM 1	320	9600	63	0.512
FRUITS	Chironee	Local	18	540	14	0.065
FRUITS	Custard apple	Dharur 4	84	2100	29	0.210
FRUITS	Mandarin	-	53	3180	24	0.133
FRUITS	Jackfruit	Khwaja	134	4020	62	0.858
SPICES						
VEGETABLES	Tomato	Kashi Aman, Kashi Adarsh	116600	69960	1068	3.148
VEGETABLES	Chillies	Kashi Anmol	58550	35130	715	1.581
VEGETABLES	Brinjal	NB-5	46100	27660	643	1.660
VEGETABLES	Bottlegourd	Pusa Naveen	303	1515	35	0.121
VEGETABLES	Cabbage	Golden acre	10800	10800	190	0.292
VEGETABLES	Cauliflower	Barkha	17150	17150	282	0.463
VEGETABLES	Broccoli	Fista	8100	8100	166	0.219
VEGETABLES	Onion	ALR	189250	37850	170	0.426
FOREST SPECIES	Meethi Neem		61	1525	16	0.098
FOREST SPECIES	Umar		25	500	8	0.123
FOREST SPECIES	Sagon		25	625	8	0.023
FOREST	Peepal		25	500	9	0.250

SPECIES		l			
FOREST	Kachnar	100	2000	2	0.360
SPECIES	Tuomu	100	2000	-	0.200
FOREST	Silver Oak	96	4800	8	0.346
SPECIES	Shiver our		1000	O	0.510
FOREST	Casia	21	630	10	0.076
SPECIES	Cusiu	21	030	10	0.070
FOREST	Mahua	73	1825	21	0.730
SPECIES	Withitat	, ,	1023	21	0.730
ORNAMENTAL	Hibiscus	236	5900	96	0.094
CROPS	Thoiseus	230	3700	70	0.074
ORNAMENTAL	Rose	245	6125	120	0.098
CROPS	Rose	243	0123	120	0.070
ORNAMENTAL	Calendula	31	31	20	0.012
CROPS	Calcillula	31	31	20	0.012
ORNAMENTAL	Chameli	55	1375	37	0.022
CROPS	Chamen	33	13/3	31	0.022
ORNAMENTAL	Chandni	149	3725	88	0.060
CROPS	Chandhi	149	3123	88	0.060
ORNAMENTAL	Bela	67	1675	35	0.027
CROPS	Вега	07	10/3	33	0.027
ORNAMENTAL	TT 1'		2250	22	0.026
	Hemelia	65	3250	33	0.026
CROPS	G .	50	2100	20	0.020
ORNAMENTAL	Croton	73	2190	39	0.029
CROPS	3.5		1007	20	0.021
ORNAMENTAL	Morpankhi	53	1325	30	0.021
CROPS					
ORNAMENTAL	Areca Palm	66	7260	13	0.059
CROPS					
ORNAMENTAL	Coleous	165	4950	55	0.066
CROPS					
ORNAMENTAL	Bottle Plam	5	550	3	0.005
CROPS					
ORNAMENTAL	Coleous	65	1950	33	0.026
CROPS					
ORNAMENTAL	Bougainvillea	18	450	5	0.007
CROPS					
ORNAMENTAL	Shawani	8	200	3	0.003
CROPS					
ORNAMENTAL	Ashok	32	960	4	0.029
CROPS					
ORNAMENTAL	Manokamni	12	300	6	0.005
CROPS					
ORNAMENTAL	Champa	6	300	6	0.002
CROPS	1				
ORNAMENTAL	Golden Duranta	108	2700	14	0.043
CROPS					
ORNAMENTAL	Madhu malti	58	1450	18	0.023
CROPS				_	
ORNAMENTAL	Marigold	3000	3000	30	0.007
CROPS					3.007
ORNAMENTAL	Jaistropha	16	800	5	0.006
CROPS	Jaistropiu			5	0.000
ORNAMENTAL	Beetal leaf	37	925	17	0.015
CROPS	Doctur rour		723	1/	0.013
C1(O1)		l .]		

ORNAMENTAL CROPS	Manda		30	1500	23	0.012
ORNAMENTAL	Kund		3	75	3	0.001
CROPS						
PLANTATION	-	-	-	-	-	-
CROPS						
Others (specify)	-	-	-	-	-	-

Bio-products

S.No	List of Major Group Bio agent/Bio fertilizers/Bio	Name of the Product	Species	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if
	Pesticides							applied
1	Bio Fertilizers	Non Symbiotic Azotobacter	-	-		-	-	-
		Vermicompost	-		-	-	-	-
		Azolla	-	-	-	-	-	-
		Earthworms	-	-		-	-	-
		Compost	-	-	J -	-	-	-
		Blue Green Algae	-	-	-	-	-	-
		NADEP	-	-	-	-	-	-
		Sanjeewani Khad		-	-	-	-	-
		Ghanjeevamrut	-	620	-	6200	15	3.9
		Taral jeevamriut	-	410	-	16400	82	18.2
		Beejamriut	-	60	-	2400	35	14.6
		Acetobactor		-	-	-	-	-
		Aspergillius	-	-	-	-	-	-
		Azatobactor	-	-	-	-	-	-
		Azospirillum	-	-	-	-	-	-
			-	-	-	-	-	-
		Phosphate solublizing Bacteria	-	-	-	-	-	-
		Rhizobium	-	-	-	-	-	-
		Other (pl. sp.)	-	-	-	-	-	-
2	Bio-Food	Spirulina	-	-	-	-	-	-
		Honey	-	-	-	-	-	-
		Any Other (pl. sp.)	=	-	-	-	-	-
3	Bio Pesticides	Neem extract	-	-	-	-	-	-
		Neem powder	-	-	-	-	-	-
		Tobacco extract	-	-	-	-	-	-
		Trichoderma viride	-	-	-	-	-	-

S.No	List of Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Species	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if applied
		Trichoderma	-	-	-	-		-
		harjinum Trichogramma	_	_	_	_		
		chilonis						
		Beauveria	-	-	-	-	-	-
		bassiana						
		Metarhizium	-	-	-	-	-	-
		anisopliae Pseudomonas						
		fluorescens	_	-		-	-	_
		SINPV	-	-	-	-	-	-
		HaNPV	-	-	-	-	-	-
		GF1	-	-		-	-	-
		Baco Lures	-	-	-	-	-	-
		Heli Lures	-	-	-	-	-	-
		Leucin Lures	-	-	-	-	-	-
		Paeciliomyces	-1	-	-	-	-	-
		Panchagavya	-	25	-	1000	12	6
		Neemastra	-	355	-	14200	71	28.4
		Bramastra	7.7	290	-	11600	58	23.2
		Aganistra	-	300	-	12000	60	24.0
		Verticillium	-	-	-	-	-	-
4	Bio Agents (Tricho card)	Trichogramma chilonis	<u> </u>	-	-	-	-	-
		Chrysoperla carnea	-	-	-	-	-	-
		Tricho card	-	-	-	-	-	-
		Any other (Pl. Specify)	-	-	-	-	-	-
5	Bio Agents (Pyrilla	Ooincirtus papilionis	-	-	-	-	-	-
	parasitoids)	Epiricania	-	-	-	-	-	-
6	Bio	melanolauca	-	_	-	-	_	_
	Agents(Worms)	Eisenia fetida	-	-	-	_	_	_
		Eudrilus eugeniae	_	_	_	_	_	_
		Earth worm Any other (pl.	-	-	-	-	-	-
7	Others	specify)	Plurotus					
,	Juicis	Mushroom spawn	sajjorcaju	179 kg	-	26850	52	
		Mushroom fresh		172.5 kg	-	17280	67	
		Mineral Mixture	-	-	-	-	-	-

S.No	List of Major	Name of the	Species	Qty (in Kg)	Qty (in	Value	Provided	Expected
	Group	Product			No.)	(Rs.)	to no. of	area
	Bio agent/Bio						Farmers	coverage
	fertilizers/Bio							(ha.), if
	Pesticides							applied
		Cow dung (dry)	Ī	-	-	-		-
		Any other (pl.	-	-	-	-	-	-
		specify)						

LIVESTOCK

S.No	Type	Name of the animal / bird /	Breed	Type of Produce	Quantity		Value (Rs.)	No. of Beneficiaries
	aquatics				unit (kg/qt./liter/ no)	Qty.	(1454)	201011111
		Cow	Gir/sahi wal	Milk	liter	1626	73170	18
1	Dairy animals	Calves	Gir/sahi wal	-		-	-	-
		Goats	Sirohi	Kids	kg	278	127880	9
		Buffaloes	-	-	-	-	-	-
		Sheep	-	-	-	-	-	-
		Breeding bull	Gir	Service	No.	26	3900-	26
		Other (pl specify)	,	-	-	-	-	-
		Poultry	Narmdan idhi	Birds	kg	740	185000	168
2	Poultry	Japanese quail	-	-	-	-	-	-
	1 outry	Japanese quail eggs		-	-	-	-	-
		Ducks	-1	-	-	-	-	-
		Turkey	-	-	-	-	-	-
		Other	-	-	-	-	-	-
		Piglets	-	-	-	-	-	-
3	Piggery	Boar	-	-	-	-	-	-
		Sow	-	-	-	-	-	-
		Other (pl specify)	-	-	-	-	-	-
		Indian carp	-	-	-	-	-	-
4	Fisheries	Exotic carp	-	-	-	-	-	-
		Other (pl specify)	-	-	-	-	-	-

Literature Developed/Published

KVK News Letter

Period	Quarter	Number of copies published	Number of copies distributed	Type of beneficiaries receiving the newsletter
		•		(Farmer, District/

				block/Panchayat Official,
				D.M. etc.
January to March 2023	Q1	200	200	Farmers and panchayat
				officers
April to June 2023	Q2	200	200	Farmers and panchayat
				officers
July to September 2023	Q3	200	200	Farmers and panchayat
				officers
October to December	Q4	200	200	Farmers and panchayat
2023				officers

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-	Title of the programme	Number
	Cassette)		
1	VCD	Meri Kahani Meri Jubani	6
2	VCD	Conservational and mainstreaming of traditional	2
		Farmers varieties	

Literature developed/published

Eliciature de velopeu/published							
Туре	Number (please don't give mass please fill number only)	Number of copies printed (please don't give mass please fill number only)					
Abstract	4	Mass					
Book	0	Mass					
Book Chapter	2	Mass					
Booklet	2	550					
CD/DVD	2	48					
Leaflets/ Folder/ Pamphlet	20	11500					
Popular article	2	Mass					
Research Paper	4	Mass					
Technical Bulletin	02	500					
Training Manual	1	26					
Technical Report	04	20					
Year Planner	01	20					
Others (pl. specify)							

Activities of Soil and Water Testing Laboratory

Year of establishment: 2003 List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Spectrophoto meter	1	Not Working
2	Flame photometer	1	Not Working
3	Water distillation apparatus	1	Not Working
4	PH Meter	1	Not Working
5	Hot Air oven	1	Not Working
6	Mechanical Shaker	1	Not Working
7	Harvesto Digital	1	Working
8	Harvesto shaker	1	Working

Details of Soil samples analyzed:

Soil Test	0		f soil ples	No. o	f Samples	analyzed	No. of	f Farmers	benefited	No. of	Amo unt	Soil health card distributed to	
tin d	iate	Sam	pies	by	KVKs	By Depart	Ву	KVK	By Depart	Villa ges	realiz ed	the farmers by KVK (Nos)	
Sanctio ned	Procu red	Collec ted by KVKs	Provi ded by Dept./ DDA	Mini Soil Testi ng kit	Soil testing laborat ory	ment	Mini Soil Testi ng kit	Soil testing laborat ory	ment	cover ed		Thro ugh Mini Soil Testin g kit	Throug h Soil testing laborat ory
02	0	500	0	386	0	0	349	0	0	43	72500	386	0

Details of water samples analyzed:

No. of Samples	No. of Farmers	No. of Villages	Amount realized	Test report distributed to the farmers (Nos)
-	-	-	-	1

Details of Plant samples analyzed:

No. of Plant Samples analyzed No. of Farmers		No. of Villages	Amount realized
-	-	-	-

Footfall of farmers in KVKs (Jan. 2023 to Dec. 2023)

Name of KVK		Footfall during 2023						
	No. of Farmers	No. of officials	No. of VIPs	Total				
Satna	15454	398	119	15971				

^{*} JPEG Photographs (2-3 only)

Status of Kisan Mobile Advisory (KVK-KMA)

S. No.	Thematic area	Particulars	No of Calls	No of adviso ry sent	No of Messag es sent	No. of farmer s receive d messag es	Total no of villag es in Distri ct	No of village Cover ed by KVK throu gh KMA
1		Crop Production Technology	168	45	45	76452	1816	1006
	Cron Managament	Integrated Farming						
	Crop Management	Field Preparation						
		Any Other (Specify)						
2		Advisory	282	38	38	76452	1816	1006
		Change in variety						
	Weather	Change in Sowing technique						
		Climate forecast						
		Any Other (Specify)						

S. No.	Thematic area	Particulars	No of Calls	No of adviso ry sent	No of Messag es sent	No. of farmer s receive d messag es	Total no of villag es in Distri ct	No of village Cover ed by KVK throu gh KMA
3		Soil Testing	98	0	0	76452	1816	1006
		INM						
		Fertilizer Application						
	Soil Management	Vermicomposting/ bio-waste recycling						
		Bio-fertilizer						
		Any Other (Specify)						
4		Disease Management	79	36	36	76452	1816	1006
		Pest Management	240					
	Disease & Pest	Preventive Advisory Disease Management	44					
	Management	Preventive Advisory Pest Management	62					
		Bio-pesticides	29					
		Any Other (Specify)	26					
5		Nutrition Awareness	45	0	0	76452	1816	1006
		Kitchen garden						
		Value Addition and Processing						
	Nutrition Security &	Drudgery Reduction						
	Women Empowerment	Entrepreneurship & Income Generation						
		Advisory						
		Any Other (Specify)						
6		Vegetable	387	43	43	12023	1816	543
	Horticulture	Fruit	122	13	13	653	1816	139
	Horuculture	Hi Tech Horticulture	13	0	0		1816	37
		Any Other (Specify)	7	2	2	54	1816	4
7		Feed and Fodder	73	14	14	76452	1816	1006
		Dairy Management						
		Fisheries						
	Livestock	Poultry Management						
		Vaccination & Disease management						
		Any Other(Specify)						
8	Farm Mechanization							
9	Extension		115	0	0	76452	1816	1006
10	Organic Farming		35	15	15	76452	1816	1006
11	Marketing							

S. No.	Thematic area	Particulars	No of Calls	No of adviso ry sent	No of Messag es sent	No. of farmer s receive d messag es	Total no of villag es in Distri ct	No of village Cover ed by KVK throu gh
12	Awareness							KMA
13	Other Enterprise							
14	Any Other(Specify)							

Status of KVK Website during Jan to Dec. 2023

	#### TO _				
Date of start of website	Address of Website	No. of updates	No. of visitors	Flag	Year
		during 2023	during 2023	Collected	Planner
04.04.2021	http://kvksatna.org.in/	45	2357	-	ves

Mobile Apps developed by KVK during 2023

S.No	Name of KVK (Developer)	Name of Host organization	Title of Mobile App	Content (in one line)	Languages (in which app developed)	Number of downloads	Total expenditure incurred in developing
1	-	_	- ^	-	-	-	app (Rs.)

ICT based module

Information on Whats app in social media by KVK

KVK	Discipline wise group with name of	No of	Activity details on whats app group
	discipline	Farmer	
		members	
Satna	KVK Farmers Training	69	Farmers advisory on training programme Agri and Horticulture based , information on seed availability
Satna	DRI KVK SHG	120	Farmers advisory on Agri. and Horticultural crops, information on seed availability
Satna	Mushroom Production trainees	87	Farmers advisory on Mushroom production
Satna	DRI KVK Majhgawan,Satna	215	Farmers advisory on pest management in Agri. and Horticultural crops , information on seed availability
Satna	KFPCL Nagod Farmers Group	205	Farmers advisory on seed Production and information on seed availability
Satna	KVK Mahila Bal Vikas Majhagwan	74	Farmers advisory on training programme
Satna	Horticulture- Udyaniki vikas Maihar	190	Farmers advisory on horticultural crops, information on seed availability
Satna	Horticulture- Udyaniki Krishak, Rampur Baghean	44	Farmers advisory on horticultural crops, information on seed availability
Satna	Horticulture- Udyaniki group Ramnagar	52	Farmers advisory on horticultural crops, information on seed availability

Satna	Horticulture- Udyaniki Mahgawan	75	Farmers advisory on horticultural crops,
			information on seed availability
Satna	Horticulture- Udyaniki group Sohawal	76	Farmers advisory on horticultural crops,
			information on seed availability
Satna	Horticulture- Udyaniki group Nagod	39	Farmers advisory on horticultural crops,
			information on seed availability

Information on social media by KVK

KVK	Facebook		Twitter		Instragram		
	Scientists linked	Farmers connected	No of Post	No of tweets	People following	No of share	People following
Satna	685	3895	103	37	1245	29	352

DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of			Number	Related crop/livestock/technology
KVK	Types of Activities	No. of	of	
		Activities	Participa	
			nts	
Satna		16	255	Mid and terminal drought mitigation techniques
	Gosthies			in Kharif, Zero and dry seeding technology
Satna		27	7087	Technologies for mitigating and adapting the
				drought, water saving methods, Soil and water
				conservation technique, Nursery raising of
	Lectures organized			vegetables, livestock feeding management
Satna		2	765	Technologies on drought mitigation in kharif
				crops and improved production technologies for
				important rabi season crops were shown through
	Exhibition			exhibition
Satna	Film show	11	535	Production technology of rabi crops
Satna		1	812	Technical information/lecture related to the rabi
	Fair			crops, Felicitation of innovative farmers
Satna		27	136	Identification of important diseases insects,
	Farm/ Field Visit			weeds and deficiency symptoms of nutrients
Satna	Diagnostic Practical's	32	67	Insects, pests, diseases of Kharif standing crops
Satna	Distribution of Literature (No.)	12	7087	Package of practices of rabi crops
Satna	Distribution of Seed (q)	122	368	Rabi crops & vegetables
Satna	Distribution of Planting	156322	613	Fruit sapling and vegetables seedlings
	materials (No.)			
Satna		140	14	Liquid biofertlizer, Beejamriut and
	Bio Product distribution (Kg)			Ghanjeevamriut
Satna	Distribution of Bio Fertilizers	-	-	-
Q .	(q)			
Satna	Distribution of fingerlings Distribution of Livestock	-	-	-
Satna	specimen (No.)	_	-	-
Satna	Total number of farmers visited	15	1205	Technology park and demonstration units
Salla	the technology week	13	1203	Technology park and demonstration units
Satna	Animal health camp	3	142	Vaccination and use of minerals mixture
Satna	Awareness programme	3	217	Natural farming and Agri drone
Satna	Demonstration(ha.)	103	259	Improved production technology of Rabi seasion
Satila	Demonstration(IIa.)	105	237	improved production technology of Ruoi seasion

Name of KVK	Types of Activities	No. of	Number of	Related crop/livestock/technology
11,11	Types of fleavilles	Activities	Participa nts	
			1165	cereals pulses and oil seeds
Satna	Exposure visit	3	175	Technology park and demonstration units
Satna	Ex-trainees Meet	-	-	-
Satna		5	125	Improved varieties seed tolerant biotic and abiotic
	Farmer scientist interaction			stress
Satna	Farmers Training	10	235	Mustard, Chickpea and Wheat
Satna	Gajarghans Unmulan Pakhwada	2	82	uprooting and chemical control
Satna	Group Meeting	2	56	SHG
Satna	Jai Kisan Jai Vigyan Sangoshthi	3	147	Recent technologies
Satna	Plant Protection Week	1	113	Cultural and mechanical pest control
Satna	Seed treatment campaign	1	125	Seed treatment and inoculation
Satna	Self Help Group convener meet	1	6329	Forest produce collection ,storage and marketing
Satna	Soil health Camp	1	105	Soil Sampling techniques and STFR
Satna	Swachha Bharat Abhiyan	4	84	Farm waste management
Satna		2	317	Preparedness of rabi seasion crop and improved
	Farmers workshop			farm technologies

Participation in HRD Programmes organized by ATARI

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
VAV			attenueu (1908)	
Satna	Dr.RS Negi	SS&Head	3	Zonal Workshop and annual
				action plan, financial
				management
Satna	Dr.Akhilesh Jagre	SMS Plant Protection	2	Zonal Workshop and annual
				action plan National
				conference
	Total		05	

Name of KVK	Total Number of staff Attended HRD Programme organized by ATARI (nos)	Total Number of Programme attended (Nos)	
Satna	3	5	

Participation in HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Satna	Dr.RS Negi	SS&Head	2	

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Satna	1	2

Participation in HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name	Name of Staff	Post held	Programmes	Duration	Type of HRD activities
of			attended	(days)	(Refresher
KVK			(Nos)		course/CAFT/Summer

					winter school/short course)
Satna	Dr. Ajay Chourasiya	SMS Agronomy	2	7	Training

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Satna	2	2

Information for TSP Jan-Dec 2023

S	Fari	mer	Wome	en	Rura	l	Extensi	ion	N	lumbei	r of	Parti	Pro	Pro	Pro	Pro	Testin
1	Trai	ning	Farme	er	Youth	S	Personi	nel		farme	rs	cipa	duct	duct	duct	duct	g of
•			Traini	ng						involv	ed	nts	ion	ion	ion	ion	Soil,
N	No.	No.	No. of	No	No. of	No	No. of	N	0	Fro	Mo	in	of	of	of	of	water,
0	of	of	Trainin	. of	Trainin	•	Trainin	0.	n	ntli	bil	exte	seed	Plan	Live	fing	plant,
	Train	Far	gs/Dem	W	gs/Dem	of	gs/Dem	of	-	ne	e	nsio	(q)	ting	stoc	erlin	manur
	ings/	mers	os	om	os	Yo	os	E	f	de	agr	n		mat	k	gs	es
	Demo			en		ut		xt.	a	mo	0-	activ		erial	strai	(Nu	sample
	S			Fa		hs		Pe	r	S	ad	ities		(Nu	ns	mbe	S
				rm				rs	m		vis	(No.)		mbe	(Nu	r in	(Num
				ers				on			ory			r in	mbe	lakh	ber)
									tr		to			lakh	r in)	
									ia		far)	lakh		
									ls		me)		
											rs						
	-	_	-	-	-	_	- 1	-	-			/					
												-	-		_	-	_

39. Information for SCSP Jan-Dec 2023

S	Far	mer	Won	nen	Rura	ıl	Extens	sion	N	umber	of	Parti	Pro	Pro	Pro	Pro	Testi
1	Trai	ning	Farn	ner	Youth	ıs	Person	nel		farme	rs	cipan	duc	duct	duct	duct	ng of
			Train	ing					j	involv	ed	ts in	tio	ion	ion	ion	Soil,
N	No.	No.	No. of	No.	No. of	No	No. of	No	O	Fro	Mo	exten	n	of	of	of	wate
0	of	of	Traini	of	Traini	•	Traini	. of	n-	ntli	bile	sion	of	Plan	Live	fing	r,
	Train	Far	ngs/De	Wo	ngs/De	of	ngs/D	Ex	fa	ne	agr	activi	see	ting	stoc	erlin	plant
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40. Information for KSHAMTA Jan-Dec 2023

Sl. No.	State	Name of KVK	Number of Adopted	No. of A	ctivities	No. of farmers benefited		
			Villages	Demo	Training	Demo	Training	
-	-	-	-	-	-	-	-	

Activities in Nutri-Smart Village during Jan-Dec 2023

Information about Nutri-Smart Village

Name of KVK	Block	Name of Nutri Smart Village
-	-	-

1. Technologies Assessed (OFT) in Nutri Smart Village

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area	No. of beneficiaries
	Nutritional Garden (activity in no. of Unit) (m ²)	-	-	-	
	Bio-fortified Crops (activity in no. of Unit) (ha)	-	-	-	-
	Value addition (activity in no. of Unit/Enterprise)	-	-		-
	Other Enterprises (activity in no. of Unit/Enterprise)	-	-	-	-
	Income generation (activity in no. of Unit/Enterprise)	-	-	-	1
	Drudgery reduction (activity in no. of Unit/ Enterprise)	-	-	-	-

2. Technologies Demonstrated (FLD) in Nutri Smart Village

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area	No. of beneficiaries
	Nutritional Garden (activity in no. of Unit) (m²)	-	-	-	-
	Bio-fortified Crops (activity in no. of Unit) (ha)	-	1	-	-
	Value addition (activity in no. of Unit/Enterprise)	-	-	-	-
	Other Enterprises (activity in no. of Unit/Enterprise)	-	1	-	-
	Income generation (activity in no. of Unit/Enterprise)	-	-	-	-
	Drudgery reduction (activity in no. of Unit/Enterprise)	-	1	-	-

3. Training Programme conducted in Nutri Smart Village

Name of	Training Title	No. of Courses	Duration (Days)	Gen		SC		ST		Oth	er	Total
KVK				M	F	M	F	M	F	M	F	
-	-	-	-	-	-	-	-	-	-	-	-	-

4. Extension Activities in Nutri Smart Village

Name of	Activity	No. of activities	SC		ST		Other		Officials		Total
KVK			M	F	M	F	M	F	M	F	
-	-	-	-	-	-	-	-	-	-	-	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
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-	-

Details of linkage with ATMA / NFSM a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage	
-	-	

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage	
-	-	

Flagship programmes implemented at KVK

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

Name of Flagship programmes; Natural Farming

Month	Activity details	No. of Activity	Beneficiaries
January to December -2023	Training cum organized in Self Reliant Centre	11	358
January to December -2023	Awareness program	15	546
February -2023	Exposure visit	4	164
February -2023	Organized one day workshop on natural farming at block level in Satna district	1	437
July & Oct.2023	Demonstration on natural farming	12	12 (12 acre)
July 2023	Cow based Microbial formulation unit establishment	1	-
	Total	45	1517

Name of Flagship programmes- ARYA

Month	Activity details	Beneficiaries
April to July – 2023	Selection of rural youth	200
April to December – 2023	Training three days	193
	Goat Framing -44	
	Poultry Farming -49	
	 Mushroom Production – 50 	
	 Vermicompost Production -50 	
August2023	Goafarming Rural Youth Meet	67
April to December - 2023	Field Visit - 17	67
April to December - 2023	Unit Establishment	38
	Goat Framing -10	
	 Poultry Farming -12 	
	Mushroom Production -8	
	Vermicompost Production -8	

Name of Flagship programmes; NFSM Cluster frontline demonstration

Crop	Variety	Area(ha)	No of farmers
			benefited
Pulses			
Blackgram	PU 9,PU10,PU12	50	125
Pigeonpea	PA 6, PA 7	50	125
Lentil	IPL 316, L4727	50	125
Total/Average		150	375
Oilseed			
Sesame	GT5/GT6	10	25
Soybean	JS 2098/JS 2069	20	50
Mustard	RH 761/DRMRIJ31	50	125
Total/ average		70	200

Crop CafeteriaTotal Area of Crop cafeteria: 2000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	JR 10, JR 767, JR 81, Pant Dhan 28, Pant Dhan 11, IR 64, Kranti, Govind, Bauna Dubraj, Bauna Safari, Pusa Sugandh 5,		400
Blackgram	Kharif	IPU 13-1, IPU 11-02, Indira Urd 1, Pant Urd 9, Pant Urd 10, Pant Urd 12, Azad 3, Pratap urd, PU 40, IPU 94-1, IPU 2-43		200
Small Millets	Kharif	Kodo millet, (JK 137) Finger millet (Indira Ragi 1), Little millet (JK4), Barnyard millet (DHBM 93-3), Foxtail millet, Great millet (PC 701).		200
Greengram	Kharif	IPM 410-1 (Shikha), IPM 205-7 (Virat), Pusa vishal, IPM 2-14, GM 4, IPM 2-3, Swati, PDM 139,		200
Pigeonpea	Kharif	Pant Arhar 6, Pant Arhar 7, BDN 716, Rajivlochan, TT 401, Pusa 992, TJT 501		100
Sesame	Kharif	GT 5, GT 6, RT 372, TKG 308, JTS 21, TKG 22, TKG 306, Shekhar, GT 1, JTS 8, JTS 9, RT 346, RT 351		200
Wheat	Rabi	DBW-303, DBW 332, DBW-187, DDW 55, JW 3465, JW 3211, JW 3288, GW 322, HI 1544, HI 1634, K 1317, K 1616, C 306		400
Barley	Rabi	DWRB-137, DWRB-182		50
Chickpea	Rabi	JG 36, JG 24, RVG 204, JG 14, JG 12, JG 16, JG 63, JG 11, JG 130, JG 74, JG 03, JG 135, JG 01		200
Lentil	Rabi	IPL 534, RVL 11-05, RVL 31, IPL 316, L 4076, IPL 406, L 4147, IPL 321, IPL 220, IPL 526		200
Field Pea	Rabi	IPFD 11-5, IPFD 10-12, IPF 49, IPFD 1-10, KPMR 400, IPFD 12-2, Aprana, IPF 519, IPF 99-25, IPFD 99-13		100
Mustard	Rabi	DRMRIJ 31, NRCHB-101, DRMR 150-35, DRMR 1165-40, RH 725, RH 761, Pusa Mahak, PM 28, PM 30		200
Tomato	Rabi	Kashi Aman, Kashi Amrit, Arka Rakshak		50
Brinjal	Rabi			50
Peas	Rabi	VRP 9, VRP 22, Azad 1,		50

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
High tech Nursery	Fruits, Vegetables, ornamental Plant	780	459566 fruit saplings and seedlings
	nursery		provided to 5769 farmers
Vegetables & Spices seed	Improved varieties seeds	0.8	2.38 q seeds were provided to 1779
production			farmers
Bio-pesticide and Bio-fertilizer Unit	Prepared in cow urine based biofertilizer (Ghanjeevmriut, Taral Jeevamriut Beejamriut and panchgavya) & Biopesticide (Neemastra, Bramastra and Agniastra)	400	Natural Bio-Product – Ghanjeevmriut, - 350kg Taral Jeevamriut - 650 liter Beejamriut - 50 liter Bio-pesticde – 550 liter
Mushroom Production	Oyster and Button Mushroom seed and fresh Production(spawn).	731	Oyster and Button Mushroom seed- 265 kg Fresh Mushroom- 350 kg

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

Success stories/Case studies – (best two only in the following format in separate file attached)

Success Story of Vegetable based cropping pattern for round the year vegetable cultivation in Cluster approach.

"Small is beautiful" is a good saying. But it does not appear to be good when it comes to landholdings in agriculture. More than 69.6 per cent of farmers in Satna district of MP own less than two hectares land. Their share of cultivated land is only 20.9 per cent of the total available agricultural land. The cropping system followed by small and marginal land holders, failed to provide food, nutritional, economic and employment security to these farm families. As a result, these groups of farm families are showing disinterest in farming, quitting farming and are migrating towards cities.

The Bundelkhand region of Madhya Pradesh characterized by fragile ecosystem has been facing drought like situation in the past few years. The production system in this region is confronted by several bio-physical constraints, such as low and erratic rainfall, extreme temperature variations as high as 48°C during summer and 2-3°C during winter and increased in the severity of long dry spells. Although, the region receives an average annual rainfall of 767.8 to 1086.7 mm during monsoon, but, due to undulated topography in the upland, most of the rainwater is lost through surface run off resulting in to erosion of the top soil. The uplands are seldom utilized for production of agricultural crops. Thus, under such situation, cropping system integrating suitable vegetable crops with market acceptance could be more remunerative as it will not only improve the productivity and profitability of farming but it will also provide nutritional security to the farm family. The practice of multiple cropping with cropping pattern also permits crop diversification to spread out the risk to more crops, thus, eliminating the

dependence of income on a single crop. Therefore, to minimize risk, improve livelihood, ensure high returns from such uplands for small land holders and further, to improve the soil characteristics, vegetable based cropping system could be a most promising technology. The climate of the region is suitable for growing vegetables, and spices crops will not only fetch good income to the farmers from their lands, but will also simultaneously improve the condition of soils if leguminous crops are grown in cropping system.

Situation analysis/Problem statement:

disease and pests attacks.

Rice – wheat cropping system is the major cropping pattern of Satna District, but during recent years, short and delayed rainfall, the productivity of this cropping system has been greatly reduced, resulting into reduction in income of the farmers. The persistent changes in the weather have resulted in the overall decrease in the quantity of available water for irrigation, resulting in low productivity and profitability of rice -wheat cropping system in upland areas of the district. In order to improve the productivity and profitability of this farming situation, there is a need for diversification of rice to vegetables by including crops/varieties that require less water in the cropping system. In most of such areas in the district offer the possibility for growing three crops if rice- wheat cropping system is further intensified to bitter gourd- pea- wheat cropping system. Rice fields cover large agricultural areas in Satna District of MP. Lower profitability of rice cultivation has however, created a need for diversification of this upland rice to the more profitable cultivation of vegetables. Increasing demands of vegetables during rainy season, further makes conversion of rice fields reasonable in this environment without supplemental irrigation. The productivity of vegetables in Satna district of Madhya Pradesh are very low due to diverse climatic condition viz., erratic rainfall during rainy season, moisture stress, frost during winter season, poor soil nutrient. Farmers who produce vegetables like cucumber, cowpea, brinjal tomatoes etc during their main season also get poor price to market glut. The cropping pattern is the best alternative for regulating the above factors as per requirement of the crops in order to realize the maximum potential of the available resources. It also helps in raising good quality crops and also reduces the risk of crop failure due to extreme and unseasonal weather conditions. Round the year

2. Plan, Implement and Support: KVK Satna introduced various vegetable based cropping pattern for year round production of vegetables in Pagarkala village. Farmers were imparted training on year round production of vegetables by following suitable cropping patterns. Farmers were well supported by organizing demonstrations on improved production technologies of vegetable production. During the last 5 years 18 demonstrations on improved production techniques of vegetables and spices were organized by involving more than 105 farmers. The farmers were advised to follow the cropping pattern by following the standard production technologies and cultivating the high yielding varieties/hybrids. The literature and technical support in terms of consultancy,

production of vegetables also help in providing employment to farm family, increases production and minimize

advisories, training, exposure visits to KVK vegetable demonstration farm, farmer and scientist interactions, field days were organized to showcase the technologies to the farmers and villagers for large scale adoption.

Promising characteristics of technology:

- Intensification of rice wheat cropping system to vegetable based cropping system.
- Selection of high yielding arieties.hybrid
- Planting Seeds/ seedlings on raised beds/ridges/basins
- Nutrient management- Recommended Dose of Fertilizers and Foliar application of water soluble fertilizers (NPK-19:19:19(1%) and micronutrient (agromin 0.2 %) 30, 45 and 60 days after planting
- Improved Crop Management Practices(Water management- Drainage & irrigation, weeding, Change in cropping Pattern, Staking & training of vegetables)
- Management of insectpests(Removal of disease infested leaves, Prophylactic Spray there after need based spray of chemicals)

Table 1. Activities / technological intervention undertaken by KVK

Technological Intervention/ Activities	Nos.
On campus training programmes	14
Off campus training programmes	26
Frontline Demonstrations	18
Method demonstrations	08
Field Visits	46
Kisan Advisory Services	234(105 farmers)
Field days	18
Exposure Visits	03
Formation of farmers group	01 (2 farmers)

3. Output: The concerted efforts by KVK in promoting farmers to adopt most profitable cropping pattern resulted in year round production of vegetables in the villages increasing the cropping intensity from 1.76 to 2.89 %, and production by 169 per cent as compared to traditional cultivation. Similarly the net return, profitability was also increased by double in the technology demonstrated during last five years (Table 2).

Table 1. Economic performance of Cropping pattern for round the year vegetable production

Cropping pattern)Kharif- Rabi- Zaid(Cost of cultivation)Rupees/acre/year(Gross Returns)Rupees/acre/year(Net Returns)Rupees/acre/year(B:C ratio
Januar Ruor Zurd	jitapeesi ueroi yeur(jrtapees, uero, yeur ()reapees, aero, year(
Tomato - Cauliflower - Cowpea	75470	201825	126355	2.67
Cowpea- Potato - Okra	71550	170200	98650	2.38
Chillies - Onion – leafy coriander	83420	231250	147830	2.77
Okra - Pea – Bottle Gourd	66140	169625	103485	2.56
Zinger - Cowpea	73350	193775	120425	2.64
Cowpea - Garlic – Spinach	74410	233775	159365	3.14
Cauliflower - Pea - Tomato	82360	237575	155215	2.88
Onion – Cauliflower - Cowpea	82215	225975	143760	2.75
Bitter gourd - Pea - Muskmelon	69325	207000	137675	2.99

Of the various cropping patterns tested/demonstrated in the village, cowpea- garlic- spinach, bittergourd- peamuskmelon and cauliflower- pea-tomato, which gave net return of Rs. 159365, Rs. 137675 and Rs. 155215/acre and benefit: cost ratio (3.11, 2.99 and 2.88) respectively, are the best cropping sequences for upland irrigated production system. In the cropping system, natural resources like soil, moisture and space were utilized properly. Income per unit area increased substantially with cropping system. Year round production approach of vegetable production also helped to reduce nutritional problems as well as poverty in the village.

- **4. Outcome:** The farmers were very happy with the adoption of cropping sequences as their income from vegetable production has increased significantly. Each farm family income has been observed to increase by 169 percent on an average. The off season vegetables provided good prices to the farmer. Horizontal spread to 105 farmers in the village along with in 3 adjoining villages covering 89.5 ha area under vegetable cultivation
- **5. Impact:** This technology provides job oppurtunity and income round the year for the farm families and also more income per unit of land. The adoption of appropriate cropping pattern resulted in year round production of vegetables thus increasing the r productivity and income of farm families which definitely will help in doubling the farmers income. The area under vegetable has also increased significantly in the village. Overall following changes were observed in the village.
 - Living standards of farmers improved
 - Sizable increase in Area (89.5 ha) under vegetable cultivation in the village

- 140 farmers in 3 villages of the surrounding villages started vegetable cultivation
- Sale of farmers produce at their door step
- Farmers are now taking three crops in a year



A success story of Vegetable grower – a case in Satna District of MP

While youth of his age are migrating towards cities in search of better job, 39-year-old farmer Sh. Sunil Verma of Pagarkhurd village under Majhgawan block in Satna District is still going strong as a vegetable grower and has become an inspiration for youths shying away from agriculture. Sunil, who is into vegetable cultivation for the last 11 years, has made farming a lucrative affair and is reaping a profit of Rs 5 lakh per annum from 2.5 acre piece of land.

Sunil, who has studied up to BA, started vegetable cultivation at an age of 28. He started with cultivation of Zinger, tomato, brinjal and cabbage over about 2.5 acres of land. Before he entered into vegetable farming, his father was solely concentrated into rice —wheat cultivation. Sunil took up vegetable cultivation after he came in contact with kvk and informed that vegetable cultivation offers good return.

The 39-year-old now grows papaya and guava over 1.0 acres besides, , bitter gourd , tomato, brinjal, potato cabbage, cauliflower, cowpea and bottle gourd over 1.5 acres. Altogether, he cultivates horticultural crops over 2.5 acres of land and earns around Rs 5.0 lakhs per year.

Sunil said he earns around Rs 1.5 lakh annually from fruit cultivation over one acre and another Rs 1.35 lakhs by growing Okra cowpea, cauliflower and cabbage over 0.5 acres. Similarly, he cultivates zinger and chilies over half an acre and earns a profit of about Rs 1.2 lakhs. He also grow potato, tomato, brinjal chillies, cucurbits and leafy vegetables over 0.5 acres and earns about Rs 0.95 lakh from cultivation of these vegetables annually

"He plans sowing and transplanting of vegetables intelligently to capture the early market to escape form distress sale," Sunil said.

This farm success has been possible only because of proper planning and layout along with appropriate utilization of available farm resources and market demand driven cultivation, he said. Apart from this, Sunil is also rearing two buffaloes and one cow.

Sunil said he faces no problem in selling his yield as traders visit his village regularly to procure his produce. "I have never felt the need of a job and am satisfied with farming," he said.



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

S.	Training	Need analysis tools/methodology followed
No.		· Ci
1	Identification of courses for farmers/farm women	PRA technique, Rapid Rural Appraisal (RRA) technique, Personal
2	Rural Youth	contact, conducted meeting of the villagers, semi-structured interview
3	In-service personnel	schedule the problems, issues and needs were also assessed through
4	methodology for identifying OFTs/FLDs	POINT techniques. The gaps in adoption of technologies have been
5	Matrix ranking	analyzed through farming situation based extension (FSBE) tools

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	Banka	Majhgawan	25
2	Piparawan	Majhgawan	23
3	Baruwa	Majhgawan	25
4	Tikara	Majhgawan	26
5	Lotni	Majhgawan	24
6	Devipur	Sohawal	36
7	khuja	Unchhehara	62

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

Well labeled Photographs in .jpeg format with high resolution (300 dpi)of each activity of the KVK. (Separately) (pl don't paste photo in word file)