ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2023

(January 2023 to December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address with PIN code	Telephone		E mail	Website address & No. of
				visitors (hits)
Krishi Vigyan Kendra, Satara I, At/Post – Kalwade, Tahsil –	Office	FAX	pckvkkarad@gmail.com	www.kvkkarad.co.in
Karad, District – Satara, State – Maharashtra, Pin – 415539	02164 – 288070	9423529137		Visitors - 17892

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website address
	Office	FAX		
Krishi Vigyan Kendra, Satara I, At/Post – Kalwade, Tahsil –	02164 – 288070	9423529137	pckvkkarad@gm	kvkkarad.com
Karad, District – Satara, State – Maharashtra, Pin – 415539			ail.com	

1.3. Name of the Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact				
Dr. B.S Khandekar	Office	Mobile	Email		
	9423529137	9423529137	<u>bskhandekar4@gmail.com</u>		

1.4. Date and Year of sanction: June 2002

1.5. Staff Position (as on December, 2023)

					If Permanent, Please indicate			If Temporary, pl. indicate the
Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	Current Pay Band	Current Grade Pay	Date of joining	consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Vaccant	-	-	-	-	Vaccant	
2.	Subject Matter Specialist	Dr. Bharat S.Khandekar	9423529137	Soil Science	27405	5400	03/05/2012	
3.	Subject Matter Specialist	Mr. Nilesh H.	9545447699	Agronomy	24336	5400		

		Thorat					20/06/2016
4.	Subject Matter Specialist	Mr. Vishal R. Mahajan	9767411699	Agricultural Extension	23635	5400	13/02/2017
5.	Subject Matter Specialist	Dr. Nagesh Gawade	8320062093	Horticulture	-	5400	23/1/2023
6.	Subject Matter Specialist	Dr. Priyadershani Deshmukh	8050710373	Home Science	22946	5400	3/10/2018
7.	Subject Matter Specialist	Dr. Dilip Ghongade	6280695783	Plant Protection	-	5400	10/12/2022
8.	Programme Assistant	Vaccant	-	Veternary	-	-	Vaccant
9.	Computer Programmer	Mrs. Shubhapradha Mohite	9665312493	Computer	14751	4200	22/10/2018
10.	Farm Manager	Mr. Prakash P. Thorat	8999693089	Farms	18710	4200	28/12/2010
11.	Accountant/Superintendent	Vaccant	-	Accountant		-	Vaccant
12.	Stenographer	Mr . Pawan L.Joshi	9922433984	Computer Science	11067	2400	11/05/2017
13.	Driver 1	Mr Sandeep J. Bhilare	8007289659	General Admn	10653	2000	01/11/2011
14.	Driver 2	Mr. Vikas B. Chorge	9637303201	General Admn	9521	2000	17/11/2016
15.	Supporting staff 1	Mr. Shankar M. Kumbhar	8805255929	General Admn	11163	1800	02/12/2002
16.	Supporting staff 2	Vaccant	-	General Admn	-	-	Vaccant

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

S. No.	Item	Area (ha)
1	Under Buildings	0.13
2.	Under Demonstration Units	2.00
3.	Under Crops	10.40
4.	Horticulture	4.00
5.	Pond	0.47
6.	Others if any (Specify)	3.00
	Total	20

1.7. Infrastructural Development:

A) Buildings

		Source of	Stage						
S.	Name of building	funding		Complete			Incomplete		
No.	Name of building		Completion Year	Plinth area (Sq. m)	Expenditure (Rs.)	Starting year	Plinth area (Sq. m)	Status of construction	
1.	Administrative Building	ICAR	93 – 94	446.00	970777				
2.	Farmers Hostel	ICAR		329.40	898660				
3.	Staff Quarters	ICAR	93 – 94	199.12	777693				
4.	Fencing	KVK R/F	05 – 06	70.00	280563				
5	Rain Water harvesting system	RKVY	05 – 06	64.00	529450				
6	Threshing floor								
7	Farm godown								
8	Soil and water testing lab	KVK RF	2008 -09	270	1800000				
9	Mini soil testing Kit								
10	Sell Contour								
11	Demo unit	KVK RF	2012 -13	510	205000				
i		KVK RF	2021 -22	400	10200				
ii									
12	ICT lab								
13	Solar Panel								
14	counter seal								
	Other pl mention								

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Tractor	2002	420000	-	Working
Motorcycle	2003	37000	-	Working
Jeep	2020	600000	125190	Working

C) Equipment & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Computer -2	March 2003	60000	Need to Upgrade
Printer-1	February 2003	11550	Not Working
UMAX Scanner -1	February 2003	5000	Working
UPS	February 2003	13500	Needs to replace
Colour Printer	July 2002	4500	Not working
Audio System- Ahuja	March 2005	8575	Working
Mic – 2	March 2005	1360	Working
Speakers – 2	March 2005	2050	Working
TV Onida 29 "	March 2005	16690	Working
DVD Onida	March 2005	4785	Working
Laptop	March 2005	60770	Working
Printer Cum Fax	March 2006	7000	Working
Digital Camera	March 2004	20000	Not Working
LCD Projector –Optoma	March 07	59223	Not Working
LCD Projector Screen	March 07	11289	Not Working

Video Camera Digital – Sony	March 07	29432	Not Working
Multi Seed Drill Planter	March 03	27600	Working
Tractor Trolley	March 03	55000	Working
Tractor Side Plough	March 03	8730	Working
Rotavator (130DI)	March 2006	86431	Working
Sugarcane Rotavator ridger	March 2006	21500	Working
Plough Popular	March 2006	36036	Working
Stabilizer for Xerox	March 2008	9175	Not Working
Xerox machine- Canon Make	March 2008	132500	Not Working
Computer (Dell Optiplex 755)-5	March 2009	Funded by ICAR/ERNET	Working
Server (Dell PE 2900) -1	March 2009		Working
Dot matrix printer (TVS MSP-245) – 1	March 2009		Working
Dax 24 port Switch (DX-5024-GSE) – 1	March 2009		Working
650 VA UPS (APC) – 5	March 2009		Working
3 KVA UPS (APC) with 16 batteries – 1	March 2009		Working
HP Laserjet P 1505 Printer – 1	March 2009		Working
HP Scanner G3100 – 1	March 2009		Working
Computer table (Godrej) – 6	April 2009		Working
Printer table (Godrej) – 2	April 2009		Working
4103 Chair – 10	April 2009		Working
AC (Onida 1.5 Ton) – 1	April 2009		Working
1.8 M Prodelin Antenna – 1	July 2009		Not Working
Viasat Linkstar IDU – 1	October 2009		Not Working
5 Watt C-Band ODU with external PSU – 1	October 2009		Not Working
LNBC – 1 VOIP & FAX equipment – 1	October 2009 October 2009		Not Working Not Working
Seed cum fertilizer drill	March 2009	30000	Working
Grain & seed cleaner	March 2009	20000	Working
Bullock drawn Sugarcane fertilizer Driller	March 2009	5000	Working
Genset Kirloskar	March 2009	249700	Not Working
Solar battery charging system	March 2009	78000	Not Working Not Working
Solar Integrated power system with Battery backup, fitting & other	March 2009	357013.18	Not Working Not Working
Solar water heater for guest house	March 2009	85500	Not Working
Water tank 1000 lit	March 2009	2644	Working
Meeting hall with colour, table, chair, carpet, POP, curtains, Aluminum			
windows & electric fitting etc.	March 2009	96441	Working
Wooden sofa set	March 2009	8437	Working
Microphone Ahuja	March 2009	2715	Working
Office cupboard & rack	March 2009	29700	Working
AC for Meeting hall – 2	March 2009	37000	Working
HP Laser colour printer	April 2016	35300	Working
Laser printer Cannon	August 2016	8000	Working
Brookbond Tea and coffee machine	April 2016	21300	Working
Laptops with inverter and internet system (Two)	March 2017	95000	Working
LCD Projector	March 2021	32000	Working
DSLR Cammera	March 2021	40000	Working
Mike with speaker trolly	March 2021	16000	Working

1.8. Details of SAC meeting conducted in the year:

Date	Name and Designation of Participants	Salient Recommendations	Action taken

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

Sr. No	Name of Taluka
1	Karad
2	Patan
3	Koregaon
4	Man
5	Khatav

2.1. Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise	
1	Mahabaleshwar	Agriculture + Horticulture
2	Wai	Sugarcane based (Agriculture) + Vegetable based (Horticulture) + Dairy
3	Khandala	Dry land Farming
4	Phaltan	Agriculture + Dairy + Semi dry land
5	Man	Dry land Farming
6	Khatav	Dry land Farming
7	Koregaon	Agriculture + Horticulture + Dairy
8	Satara	Sugarcane based Agriculture + Horticulture + Dairy
9	Javali	Agriculture + Horticulture + Dairy
10	Patan	Agriculture + Horticulture + Dairy
11	Karad	Sugarcane based (Agriculture) + Dairy + Horticulture

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

S. No.	Agro-climatic Zone (Planning Commission)	Characteristics
1	WESTERN GHAT ZONE	Mahabaleshwar and western part of Javali, Patan and Wai lies in this zone. The height is near about 1500 – 1900 meter
		from sea level. Soils are majorly red lateritic with very shallow soil depth.
2	SUB MOUNTAIN ZONE	Western part of Satara, Patan, Javali and Wai Tahsil are forms this zone. This zone receives 1500 to 2500 mm annual
		rainfall. Soil type in this zone is light, medium type & well drained.
3	WESTERN MAHARASHTRA PLAIN ZONE	Eastern part of Satara & Wai, Western part of Karad & Koregaon lies in this zone. The Krishna and Koyna river flows in
		this zone. Black fertile soils.
4	WESTERN MAHARASHTRA SCARCITY ZONE	This zone consists of Khatav, Man, Phaltan, and Khandala & Koregaon Tahsil. This zone receives 500 to 600 mm
		annual rainfall. Soils majorly medium to deep black cotton soils.

a) Topography

S. No.	Agro ecological situation	Characteristics		
1	MOUNTAIN ZONE	Mahabaleshwar and western part of Javali, Patan and Wai lies in this zone. The height is near about 1500 – 1900 meter from sea level. Undulating topography with light red soils and annual rainfall ranges from 3000-5000 mm. The Paddy, Nagali & Maize is the major crop of region.		
2	SUB MOUNTAIN ZONE	Western part of Satara, Patan, Javali and Wai Tahsil are forms this zone. This zone receives 1500 to 2500 mm annual rainfall. Soil type in this zone is light type & well drained. Paddy, Jowar, groundnut, Sugarcane, and vegetables are the major crops of this zone.		
3	PLAIN ZONE	Eastern part of Satara & Wai, Western part of Karad & Koregaon lies in this zone. The Krishna and Koyna river flows in this zone. Black fertile soils and 650 mm to 1000 mm annual rainfall are the characteristics of this zone. The maximum temperature is up to 400c in Apr-May and average minimum temperature is 90c in the month of Dec-Jan. Potential area in Kharif season. Black soils to medium light soils with rainfall 650-1000mm. Sugarcane, groundnut, soybean, sorghum, rajma, turmeric ginger and paddy are major Kharif crop and sorghum, wheat & gram are rabi crops. Vegetable crops are also potential crops of this zone		
4	SCARCITY ZONE (DPEP)	This zone consists of Khatav, Man, Phaltan, and Khandala & Koregaon Tahsil. This zone receives 500 to 600 mm annual rainfall. Very low rainfall and hot arid temp is typical characteristic. Rainfall observed in two spell mainly in June –July and Sept. Average Maximum temp up to 410c & min temp 14-150c. Evaporation rate 1800mm per year in this area. Soils of this zone are medium to light. Pearl Millet, sorghum and pulses are major Kharif crop in this region while sorghum, gram &wheat are rabi crops.		
5	ANNUAL IRRIGATED	South eastern part of Phaltan, Middle arts of Karad along with Krishna Koyna river, Central part of Satara & Wai. Black fertile soils and 650 mm to 1000 mm annual rainfall are the characteristics of this zone. Sugarcane, groundnut, soybean and turmeric are major Kharif crop and wheat, summer groundnut & gram are rabi crops. Vegetable crops are also potential crops of this zone		

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Medium black to Deep black	These are found along the belts of the Krishna and Koyna rivers. They are brownish to dark brown in colour. The chemical analysis of the soil shows that the soil is rich in lime. At certain places like Phaltan, a clear band of lime is found at a depth of a few feet in the soil. The nitrogen content of the soil is fairly good and the organic matter content of the soil is high. The soil is rich in clay content and colloidal complex is fully saturated with exchangeable bases. This is due to dry spell of monsoon. Medium black soil is also to be found in Koregaon, western part of Vaduj, Khandala Taluka and in the northern part of the Phaltan Taluka along the Nira River. The soils in the eastern part of the taluka are deep to medium black. Crops like groundnut, wheat, Sorghum (rabi) and, at certain places, where irrigation facilities are available, sugar-cane and turmeric are taken.	42800
2	Lighter soils	Light soil of the district is locally called as malran or murum mal and brown in colour. These are hard and rocky and are commonly found in the planes on the eastern side. These are also to be found on the slopes of the hillocks situated in the eastern side. These soils are well-drained, light in nature and sandy loam in texture. They are rich in lime but shallow in depth. The chemical analysis of the soil indicates that they are deficient in fertility constituents like nitrogen, organic carbon and phosphorus. However, the potash contents of the soils are fairly high. The clay complex of the soils is poor in exchangeable bases. Therefore, the soils in this category yield good produce only if bulky manures and heavy fertilizers are applied and proper irrigation is provided. At certain places, where sufficient water is available, paddy crop is also taken. However, the soil is better suited for Pearl Millet.	574000

3	Lateritic soils	Lateritic soils are red in colour and are mainly found in Mahabaleshwar hills and	425400
		along the whole mountain range comprising the entire Koyna valley On account of	
		the red colour of the soil, they are locally known as tambad mati at certain places	
		blending of the black soils with laterite or red soils has taken place. On account of	
		heavy rainfall in this region, these soils are subjected to heavy leaching and a high	
		degree of erosion. The reason for the red colour of the soil is the high content of	
		Iron Oxides in the sesqui-oxides of these soils. The depth of the soil varies from 1'	
		to 10'. The chemical analysis of these soils indicates that they are rich in clay and	
		clay-loam in texture. They are rich in nitrogen but poor in organic matter. The main	
		crops taken on them consist of the rice and hill millets like ragi, vari and nachni. At	
		certain places, rice is taken by adopting the kumri cultivation. At places with high	
		altitudes, especially around Mahabaleshwar, fruits like strawberries, goose-berries	
		which require cold climate are also grown.	

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2023)

S. No	Стор	Area (ha)	Production (000 T)	Productivity (Kg/ha)
	Major Field crops			
1.	Rice Khrif	477.39	898.37	1881.85
2.	Jowar Khrif	119.75	156.08	1303.36
3.	Bajara	433.92	287.44	662.42
4.	Ragi	42.54	39.16	920.66
5.	Maize Kharif	211.51	413.21	1953.61
6.	Cereals others Kharif	2.98	1.49	500.00
7.	Cereals Total Kharif	1288.09	1795.75	1394.12
8.	Tur	10.07	1.89	187.50
9.	Mung	115.85	106.78	921.72
10.	Udid	41.09	35.21	856.85
11.	Pulses Other Kharif	445.73	579.45	1300.00
12.	Pulses Total Kharif	612.74	723.33	1180.48
13.	Food Grain Total Kharif	1900.83	2519.08	1325.25
14.	Groundnut Kharif	317.38	393.52	1239.51
15.	Sesamum Kharif	0.71 4.63	0.28 1.85	400.00 400.00
16. 17.	Nigerseed Sunflower Kharif	2.98	1.85	600.00
18.	Soybean Kharif	871.67	1874.36	2150.31
19.	Oilseed Other Kharif	0.51	0.26	500.00
20.	Oilseed Total Kharif	1197.88	2272.06	1896.74
21.	Sugarcane Crushing	1166.25	134118.75	115.00
22.	Cotton Lint	5.70	7.28	217.00
23.	Rai Jowar	1102.34	1362.49	1236.00
24.	Wheat	427.33	982.86	2300.00
25.	Maize Rabi	194.87	623.58	3200.00
26.	Cereals Other Rabi	1.68	0.80	475.00
27.	Cereals Total Rabi	1726.22	2969.23	1720.37
28.	Gram	335.44	368.98	1100.00
29.	Safflower	0.76	0.34	450.00
30.	Linseed	00.00	00.00	00.00
31.	Sesamum Rabi	0.50	0.45	900.00
32.	Sunflower Rabi	0.91	0.23	250.00
	Major Horticultural crops			
33.	Potato	4805	7207	1500
34.	Onion	6549	60187	9190
35.	Tomato	1164	8286	7119
36.	Chilli	929	2775	2987
37.	Brinjal	753	7294	9687
38.	Pea	336	1017	3027
39.	French bean	5746	6229	1084
40.	Coriander	2834	804	284
41.	Fruits			
42.	Mango	879	7559	8600
43.	Banana	244	2693	11037
44.	Guava	319	3782	11856

Ī	45.	Pomegranate	984	9381	9534
	46.	Grapes	232	3999	17237

Source:

2.5. Weather data (2023)

Month	Normal RF(mm)	Normal Rainy days (number) Temperature (rature (⁰ C)	e (°C) Relative Humidity (%)	
Within	Normai Kr(mm)		Maximum	Minimum	Maximum	Minimum
January-23	0	0	32.22	19.45	89.74	76.09
February-23	0	0	33.46	19.85	90.28	75.75
March-23	0	0	35.77	20.17	89.96	76.16
April-23	12	2	36.2	20.14	87.6	83
May-23	0	0	38	20.36	87.22	83.58
June-23	7	2	39.03	20.64	80.03	76.66
July-23	151	15	29.03	20.15	88.38	76.22
August-23	10	2	29.41	20.48	92.41	81.90
September-23	12	2	30.03	20.50	90.66	64.1
October-23	149	4	33.09	20.88	83.48	72.54
November-23	54	3	32.5	19.58	83.3	72.8
December-23	0	0	31	17.52	83.19	69.74
Total	395	30	-	-	-	-

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

Category	Population (No)	Production	Productivity
Cattle			
Crossbred			
Indigenous			
Buffalo			
Sheep			
Goats			
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry		•	
Hens (Crossbred)			
Desi			
Fish (Reservoir)			

2.7. Details of Operational area / Villages

•		······································		···	!
	TC 1 1 / TD 1 1	NT C41 '11	34 . 0	3.6 11 11 400 1	T 1 4°0° 1 (T) 4 A
	Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
	I aluka / Diock	rame of the vinage	Major crops & chief prises	major problem facilities	i identifica i ili dot Aireas
2					

Patan	Bhairewadi (2020)	Paddy, Finger millet, wheat, Mango, Dairy, Poultry	Low productivity of cost and animals Low yields of paddy finger millet due to use of imbalance nutrients lack of knowledge about Plant Protection Very limited irrigation water for rabi only	Integrated nutrient management in paddy and finger millet Integrated pest management Livestock and poultry management empowerment of rural youth and women
Karad	Rethare kh (2018)	Major crops: Groundnut, Paddy, Sorghum, Soybean, Wheat, Gram, Mango Enterprises: Dairy Goatary Poultry	Low productivity of crops & animals Low yield due to imbalance use of nutrients. Low yield in Groundnut due to use of local variety and disease Low quality of local mango Unemployment	Improving the productivity of Paddy, Groundnut, Wheat Jowar and Red gram Integrated Nutrient Management in different crops Integrated Pest Management in Gram and Rice Livestock and Poultry management Empowerment of Rural Women & Youth, Dissemination of new improved Varieties and technologies
Karad	Nigadi (2018)	Major crops: Soybean, Groundnut, Sorghum, Sugarcane, Wheat, Gram, Ginger, Turmeric Enterprises: Dairy Goatary Poultry	Low productivity of crops & animals Low yield due to imbalance use of nutrients. Low yield in Groundnut & Soybean due to use of local variety and disease Low yield of Rabi sorghum due use of local variety Water scaracity Unemployment	Improving the productivity of Soybean, Groundnut, Wheat Jowar and gram Integrated Nutrient Management in different crops Integrated Pest Management in Gram & Pigeon pea Livestock and Poultry management Soil and water conservation practices Empowerment of Rural Women & Youth, Dissemination of new improved technologies
Khatav	Kumthe Nagache (2019)	Major crops: Maize, Onion, Sorghum, Wheat, Gram, Pea Enterprises: Dairy Goatary Poultry	Low productivity of crops & animals Low yield due to imbalance use of nutrients in maize. Low yield of Rabi sorghum due use of local variety Water scaracity Unemployment	Improving the productivity of Maize, Wheat Jowar and gram Integrated Nutrient Management in different crops Integrated Pest Management in Gram & Pigeon pea Livestock and Poultry management Soil and water conservation practices Empowerment of Rural Women & Youth, Dissemination of new improved technologies
Karad	Mundhe (2020)	Major crops: Sugarcane, Soybean, Groundnut, Wheat, Paddy & Gram, Enterprises: Dairy Goatary Poultry	Low productivity of crops, animal, Low yield in soybean & wheat due to Rust and local variety Low yield of sugarcane due to close planting, imbalance fertilizer use & poor drainage. Low yield in Gram due to Pod borer Poor drainage, Unemployment	Improving the productivity of Sugarcane, Soybean, Paddy, Gram, Wheat, Gr. nut Introduce New varieties of Soybean, Wheat and Rabi Jowar. INM in sugarcane Improve soil drainage Livestock and Poultry management Empowerment of Rural Women, Youth, Dissemination of new improved technologies

2.8. Priority thrust areas:

Crop/ Enterprise	Thrust area		
SUGARCANE	Use of Integrated Nutrient Management – Trash management in Ratoon, Use of NPK briquette & fertilizers as per STCR		
	Use of Biofertilizer & Green Manuring crops (Organic inputs)		
	Introduce wide row and single eye bud planting in sugarcane (Nursery management and ICM		
	Use of Drip & Long rows method of irrigation (Micro irrigation)		
	Create awareness for maintenance of good quality planting material on its own farm and promote low cost sugarcane nursery		
	techniques (Farm mechanization)		
	Create awareness about Pest and Disease management especially with IPM technology (IPDM)		

Introduction of new moderately rust resistant KDS-726 (Varietal evaluate) Create awareness for use of recommended Bio fertilizer for seed treatment, Use of Balance fertilizers & also use of spray grade fertilizer (INM) Use of growth retardant like Lihocine in heavy black soils (ICM) IPM of Spodopteraleutera and other pests and diseases (IPM) Introduction of new varieties likeKDG-128, JL – 286, & JL-501 (Varietal evaluate) Use of BBF method of planting (ICM) Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management) Use of correct planting method with recommended seed rate and timely sowing. (ICM)
Fertilizer (INM) Use of growth retardant like Lihocine in heavy black soils (ICM) IPM of Spodopteraleutera and other pests and diseases (IPM) Introduction of new varieties likeKDG-128, JL – 286, & JL-501 (Varietal evaluate) Use of BBF method of planting (ICM) Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
Use of growth retardant like Lihocine in heavy black soils (ICM) IPM of Spodopteraleutera and other pests and diseases (IPM) Introduction of new varieties likeKDG-128, JL – 286, & JL-501 (Varietal evaluate) Use of BBF method of planting (ICM) Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
IPM of Spodopteraleutera and other pests and diseases (IPM) Introduction of new varieties likeKDG-128, JL – 286, & JL-501 (Varietal evaluate) Use of BBF method of planting (ICM) Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
Introduction of new varieties likeKDG-128, JL – 286, & JL-501 (Varietal evaluate) Use of BBF method of planting (ICM) Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
GROUNDNUT Use of BBF method of planting (ICM) Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
Use of Integrated Nutrient Management in Groundnut (INM) Control of Tikka, Rust and other diseases in Kharif Groundnut by following IDM technology (IPDM) Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
RICE Use of Four Fold Rice planting method (Resource conservation technology) Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
RICE Use of Integrated Nutrient Management by promoting use of Urea DAP & NPK Briquette. (IPM) Proper management of water & use of IPM technique control of disease pest. (Water management)
Proper management of water & use of IPM technique control of disease pest. (Water management)
Use of correct planting method with recommended seed rate and timely sowing (ICM)
ose of correct planning method with recommended seed rate and timery so wing (rem)
WHEAT Use of Integrated Nutrient Management in Wheat. (INM) Let the state of the
Introduction of new rust resistant and high yielding varieties like Trimbak, Samadhan, MACS-6222 (Varietal evaluate)
Biological control Wheat aphids and rust management.(Biological control of pest and disease)
Introduction of new varieties as per soil type like PhuleVasudha, PhuleAnuradha, PhuleRevati, PhuleSuchitra etc. (Varietal evaluat
Create awareness for in situ water conservation & provide two protective irrigations. Zero tillage sowing for water conservation and
RABI SORGHUM more yield. (Resource conservation technology)
Use of Integrated Nutrient Management in Rabi Jowar (INM)
Management of Shoot fly and smut diseases.(IPM)
Use of new varieties like Digvijay& Vijay (Varietal evaluate)
IPM in Gram for control of pod borer and wilt (IPM)
GRAM Change the existing method of planting with ridges & furrow and BBF sowing, use of Sprinkler irrigation method. Create awareness
for proper water management in Gram (ICM)
Use of Integrated Nutrient Management, use potash with FYM and foliar nutrient application (INM)
Redgram Introduction of new high yielding improved varieties like Vipula (Varietal evaluate) Here of Introduction of new high yielding improved varieties like Vipula (Varietal evaluate)
Use of Integrated Pest Management and promote Red gram intercropping in other crops (IPM)
BANANA INM, Foliar spray with PDH and 00:00:50 and Bunch feeding technique for increase bunch weight, Proper Fertigation technique
Management of pest and diseases, Banana Marketing etc (ICM)
Mango INM, ICM, IPM (Rejunation of old orchid)
Potato & PEA Seed treatment, INM (IPDM)
Poultry, Dairy and Impart the knowledge regarding Dairy & Goatary farming, introduction of Giriraja and vanraja poultry breeds in backyard and supp
goatery of day old chicks. (Poultry management, goat and sheet management)
GENERAL Improve drainage by use of Mole plough (Reclaimaty of problematic solution) Reclamation of Problematic soils. Balance use of Fertilizers on the basis of soil test report. Judicial use of water for Irrigation

	Recycling of Organic Farm Waste &Vermicompost production (Vermicompost production)
	Use of different weedicides & cultural practices for weed control and to overcome labour shortage problem (INM)
	Adoption of recommended crop rotation practices (IFS), crops diversification
	Improve quality and quantity production in greenhouse
	Integrated pest management especially Biological control (IPM)
	Promote use of Zero tillage and BBF sowing, Groundnut Decorticator, Groundnut stripper, twin wheel hoe, vaibhav sickle, Laxmi
ENTERPRISE	sickle, Okra mitten, and maize sheller like Location specific Drudgery Reduction technology.
	Improve the self employment by imparting skills through vocational training.

3. TECHNICAL ACHIEVEMENTS

3.1. A. Details of target and achievements of mandatory activities

	0	FT		FLD						
		1			2					
Nun	Number of OFTs Number of farmers				nber of FLDs	Numl	per of farmers			
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement			
10	11	70	92	16	16	208	204			

	Tra	nining		Extension Programmes						
		3			4					
Numb	per of Courses	Number	Number of Participants		of Programmes	Number of participants				
Targets	Achievement	Targets	Targets Achievement		Achievement	Targets Achieveme				
72	100	2160	3856	200	365	4000	12539			

Seed	Production (Qtl.)	Planting materials (Nos.)			
	5	6			
Target	Achievement	Target	Achievement		

Livestock, poultry strains and fingerlings (No.)	Bio-products (Kg)
7	8

Target	Achievement	Target	Achievement

3.1. B. Operational areas details during 2023

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Sugarcane	rcane Faulty interculturing operations in ratoon sugarcane. No sett treatment. Lack of knowledge of INM, IPM		Nigadi (Karad)	FLD, training on zero tillage ratoon management
		Low yield due to improper nutrient management Loss of organic matter Less nutrient use efficiency Low yield		Mundhe (Karad)	OFT- 14ssessment on sugarcane
2	Gram	lack of awareness about Varieties, INM, IPM, INM and latest technologies		Targaon (Koregaon)	FLD on ICM Package, Training on Improved production in Gram
		1. Heavy attack of pod borer Helicoverpa armigera and Gram wilt caused by Fusarium oxysporum f.sp. ciceri 2 Unawareness about the IPM practices		Mundhe (Karad)	Training programme on IPM and FLD on Trichoderma seed treatment for wilt management
		Storage losses because of stored grain pests			Training on Stored grain pest management
		1.Imbalance use of fertilizer2.Less tillering and improper grain filling3.Low use of fertilizers.4. Unawareness of irrigation and spraying.		Nigadi (Karad)	FLD on Nutient Mangement in Gram
3	Wheat	Shattering, small grain size and low yield. Problems observes in existing Trimbak variety		Vihe (Nigadi)	OFT Demonstration of P. Samadhan, training on GAP
		Infestation of aphids, jassids and Pink stem borer in early stage of crop growth		Tondoshi (Patan)	FLD and training for effective management of Wheat aphids, jassids and stem borer
		1.Imbalance use of fertilizer 2.Less tillering and improper grain filling 3.Low use of fertilizers.		Nigadi (Karad)	FLD on Nutient Mangement in Wheat
4	Groundnut	Low plant population & poor drainage, aeration and land preparation and use of more N fertilizers		Mundhe (Karad)	FLD and Training on BBF Method of planting and INM
		Incidence of Collar rot, stem rot Tikka and Rust diseases in Kharif Groundnut Lack of Knowledge and management practices Lack of seed treatment			OFT Assessment on Seed treatment in groundnut Training on IDM in Kharif Groundnut
5	Soybean	lack of awareness about Varieties, INM, IPM, and latest technologies		Vihe (Patan)	OFT on Phule Sangam, Cluster FLD on ICM Package
6	Nagli (Finger Millet)	Incidence of blast. Lack of Knowledge of symptoms and management of the diseases		Bhairewadi (Patan)	FLD and Training
		Nutrient deficiency and nutrient loss leads to low yield		Bhairewadi (Patan)	OFT Use of NPK Briquettes

7	Onion	Incidence of Thrips and Blotch	Khatav	FLD and Training
		Less use of N fertilizers	Kumthe (khatav)	FLD on Onion STCR
		Low yield due to imbalance nutrient management		
8	Paddy	Use of local variety.	Dhoroshi (Patan)	OFT on improved variety
		Imbalance use of fertilizer		Training and FLD on Four Fold
				Technology and INM
		Losses in yield due to incidence of caseworm	Bhairewadi (Patan)	OFT assessment and training
		Low yield due to improper method of planting, use of	Bahirewadi (patan)	Training on four fold method of rice
		old varieties and improper water management & loss of nutrient by leaching		planting, & FLDs on INM with Briquette
9	Sorghum	Lack of Knowledge about new varieties, no in-situ	Nigadi (Karad)	OFT on intercropping of Sorghum +
		moisture conservation, imbalance fertilizer and close		Bengal gram (3:3 row)
		spacing		Training on Rabi crop production in
				Sorghum
				FLD Demonstration of ICM package,
				Training on Sorghum production technology
10	Maize	Low yield due to improper nutrient management.	Surupkhanwadi (Man)	OFT- Assesment on Maize and training
10	Widize	Informal and uneven size and shape of cob.	Surupkitan waar (Wan)	of 1 Assesment on Marze and training
11	Ginger	1. Lack of knowledge about IPM	Nigadi (karad0	OFT assessment and Training on IPM of
		· ·	Ę ,	white grub
12	Okra	1. Lack of knowledge of new virus resistant variety	Mhopre (Karad)	OFT assessment and training
13	Tomato	Less use of nitrogenous fertilizers and lack of	Kimthe (khatav)	OFT assessment on STCR
		knowledge of balanced use of fertilizers		
14	Poultry	Rearing of deshi poultry birds which have low egg	Bhairewadi (Patan)	FLD, training
		production, less weight gain than improved poultry bird		
15	Dairy cows	Use of local and low quality feed and fodder. Poor	Rethare (Karad)	FLD, training, Method Demonstration
		health and low productivity		
16	Goat	Lack of management	Nigadi (Karad)	Training
17	Feed and fodder	Unavailability of green fodder all round the year		Training
	technology			

^{*} Support with problem-cause and interventions diagram

3.2. Technology Assessment (Kharif 2023, Rabi 2022-23, Summer 2023)

A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	2								1	03
Varietal Evaluation		2	2		2					06

Integrated Pest Management		1								01
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction					1					01
Storage Technique										
Mushroom cultivation										
Total	2	3	2	0	3	0	0	0	1	11

A2. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	0	0	0	0	0	0
Nutrition Management	0	0	0	0	0	0
Disease of Management	0	0	0	0	0	0
Value Addition	0	0	0	0	0	0
Production and Management	0	0	0	0	0	0
Feed and Fodder	0	0	0	0	0	0
Small Scale income generating enterprises	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

B. Achievements on technologies Assessed B.1. Technologies Assessed under various Crops

Thematic areas	Сгор	Name of the technology assessed		Number of farmers	Area in ha (Per trial covering all the Technological Options)
	Ginger	Assessment of Fertigation Schedule of Ginger	07	07	2.5
Integrated Nutrient Management	wheat	Spraying of 19:19:19 NPK on wheat	13	13	2.5
	Wheat	Assessment of STCR in Wheat	13	13	2.5
Varietal Evaluation	Groundnut	Assess the performance of Phule Dhani variety of Groundnut	07	07	2.5
	Gram	Assess the Performance of New Gram variety (Phule Vikram)	07	07	2.5
	French bear	Assessment of Phule Rajma Variety of French bean in Kharif season	07	07	2.5
	Chickpea	To Assess the performance of Phule Vikarm Var. of Chickpea	07	07	2.5
	Fenugreek	Assessment of Performance of Fenugreek variety phule kasturi	07	07	2.5
	Groundnut	Assessment of new Groundnut variety Phule Dhani	07	07	2.5
Integrated Pest Management	Groundnut	Assessment of Efficiency evaluation of EPN H. Indica against whitegrub in groundnut	07	07	2.5
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Farm Machineries		Use of Seedling transplanter for drudgery reduction	10	10	_
Tall Machineres		Ose of Seeding transplanter for drudgery reduction			
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

B. 2. Technologies assessed under Livestock & fishery assessment

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Health Management				
Dairy Management				
Nutrition management				
Disease management				
Feed and fodder management				
Processing & Value addition				
Production and management				
Composting fish culture				
Small scale income generating enterprises				
Fish production				
Other				
Total	•	•		

B.3 Technologies assessed under other enterprises

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Mushroom			
Apiary			
Vermicompost			
Tailoring			
Nutrition Garden			
Nursery Management			
Production and Management			
Eentrepreneurship development			
Engegy consrvation			
storage techniques			
House hold food security			
organic farming			
mechanization			
Bee keeping			
Seed production			
post-harvest management			
other			

B 4.Technologies assessed under Women empowerment assessment

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Drudgery Reduction			
Entrepreneurship development			
Health and Nutrition			
value addition			
Kitchen gardening			
nutrition security			
other			

C. 1. Results of Technologies Assessed

Results of On Farm Trial – 1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Irrigated	Farmers	To assess	7	T3-	1)	31	PhuleDhani	Crop	-	-
		grows old	the		Technology	Average		variety has	growth of		
		varieties of	performance		assessed-	no. of		recorded	PhuleDhani		
		groundnut,	of Phule		New	pods/		27.57 %	was		
		that have	Dhani		variety	plant		more yield	excellent		
		low yield.	variety of		PhuleDhani			over	and		
		Susceptible	Groundnut		(JL-1085).			existing	produced		
		to	(JL-1085).					variety JL-	more yield		
		incidence						24 and	having		
		of pest and						16.47 %	bold size		
		diseases.						more yield	grains. And		
								on TAG-24	less bitter		
								Variety	taste.		

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice); JL-24	MPKV Rahuri	17.84	q/ha	24383	1.29
Technology option 2: TAG-24	PDKV Akola	19.54	q/ha	32542	1.38
Technology option 3: JL-1085	MPKV Rahuri	22.76	q/ha	51196	1.59

C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

Details of On Farm Trial.

- Title of Technology Assessed :

 To assess the performance of Phule Dhani variety of Groundnut (JL-1085).
- 2 Problem Definition Farmers grows old varieties of groundnut, that have low yield. Susceptible to incidence of pest and diseases.
- 3 Details of technologies selected for assessment :New groundnut variety PhuleDhani(JL-1085).
- 4 Source of technology MPKV, Rahuri.
- 5 Production system and thematic area Cultivation of groundnut under irrigated situation on medium to heavy soil with protective irrigation facility.

 Varietal Evaluation.
- 6 Performance of the Technology with performance indicators:

Particulars	Unit	T1	T2	T3
1) Average no. of	Number	23	26	31
Pods/ plant				
2) Average weight	Number	37.28	41.45	45.63
of 100 grains				
3) Average grain	Qtl/ha	17.84	19.54	22.76
yield qtl/ha				
4) B:C ratio		1.39	1.38	1.59

Input cost of	Input cost of	Additional cost	Farmers gross income	Farmers gross income	Farmers net income
Farmer (Control)	demonstration	incurred for new	Rs./ha	after use of new	after use of new
Rs./ha	Rs./ha	technology Rs./ha		technology Rs./ha	technology Rs./ha
82657	85364	2707	107040	136560	29520

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :

Farmers were contented after observing yield and yield contributing characters of phuleDhani variety of groundnut. bold grain size, vigorous growth, resistant to tikka. As peryield character, farmers gave first ranking to PhuleDhani.

8 Final recommendation for micro level situation.

New variety PhuleDhani recorded more yield, and yield attributing characters over existing variety JL-24. Need to be demonstrated on large acreage under FLD.

9 Constraints identified and feedback for research

Farmers generally demand for table purpose groundnut varieties. As they prefer sweet taste kernels for home consumption. PhuleDhani is less bitter in taste having good yield.

10 Process of farmers participation and their Reaction

Farmers actively participated in training, and implementation of assessment trial. PhuleDhani gave more grain yield. bold grain size, resistant to tikka than existing variety JL-24 and TAG-24.

Results of On Farm Trial – 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the paramete r	Results of assessment	Feedback from the farmer	Any refinemen t needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Benga	Irrigate	Use of old	To assesss	7	T3-	1)	223	PhuleVikra	Crop growth of	-	-
1 gram	d	low yielding	the		Technology	Averag		m variety	PhuleVikramwa		
		varieties,	performance		assessed-	e no. of		has recorded	s excellent and		
		drilling of	of		New variety	pods/		20.59 %	produced more		
		without	PhuleVikra		PhuleVikra	plant		more yield	yield having		
		proper	m variety of		m			over existing	bold size grains.		
		spacing and	Bengal gram					variety	Suitable for		
		nutrient	under					Vijay and	mechanical		
		management	irrigated					09.40 %	harvesting.		
		. Mechanical	condition.					more yield	_		
		harvesting						on JAKI-			
		not suitable						9218			
		due to dwarf						Variety			
		varieties.									

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice); Vijay	MPKV Rahuri	20.54	q/ha	33725	1.48
Technology option 2: JAKI-9218	PDKV Akola	22.64	q/ha	43326	1.62
Technology option 3: PhuleVikram	MPKV Rahuri	24.77	q/ha	60100	1.87

C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

Details of On Farm Trial.

- 1 Title of Technology Assessed To assess the performance of PhuleVikram variety of Bengal gram.
- 2 Problem Definition Use of old low yielding varieties, drilling of without proper spacing and nutrient management. Mechanical harvesting not suitable due to dwarf varieties.
- 3 Details of technologies selected for assessment : New Bengal gram variety PhuleVikram.
- 4 Source of technology MPKV, Rahuri.
- 5 Production system and thematic area- Cultivation of Bengal gram under irrigated situation on medium to heavy soil BBF plantation followed. Varietal Evaluation.
- 6 Performance of the Technology with performance indicators:

Particulars	Unit	T1	T2	T3
1) Average no. of	Number	158	192	223
Pods/ plant				
2) Average Plant	cm	76	79	84
height				
3) Average grain	Qtl/ha	20.54	22.64	24.77
yield qtl/ha				
4) B:C ratio		1.48	1.62	1.87

Input cost of	Input cost of	Additional cost	Farmers gross income	Farmers gross income	Farmers net income
Farmer (Control)	demonstration	incurred for new	Rs./ha	after use of new	after use of new
Rs./ha	Rs./ha	technology Rs./ha		technology Rs./ha	technology Rs./ha

68975	68750	225	102700	128850	26150	
-------	-------	-----	--------	--------	-------	--

- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:
 - Farmers were contented after observing yield and yield contributing characters of phuleVikram variety of Bengal gram. bold grain size, vigorous growth, resistant to Wilt and easy for mechanical harvesting. As peryield character, farmers gave first ranking to PhuleVikram.
- 8 Final recommendation for micro level situation.
 - New variety PhuleVikram recorded more yield, and yield attributing characters over existing variety Vijay. Need to be demonstrated on large acreage under FLD.
- Constraints identified and feedback for researchCanopy of PhuleVikram is larger than other varieties hence difficult to harvest by means of mechanical harvester if grown as intercrop.
- Process of farmers participation and their Reaction :

 Farmers actively participated in training, and implementation of assessment trial. PhuleVikram gave more grain yield. bold grain size, resistant toWilt than existing variety Vijay and JAKI-9218.

Results of On Farm Trial – 3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technolo gy Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refineme nt needed	Justificati on for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnu t	Rainfe	Losses in groundn ut due to incidenc	Efficacy of Heterorabdit is indica against the	08	T3- Drenc hing of Hetero	1. white grub Infestation (%)	4.76	Additional Cost - Rs. 520/Ha.	Farmers accepted effective method of	_	_
	d	e of white grub.	white grub, <i>Holotrichia</i> serrata (Fab)	00	rabditi s indica	2. Number of pods/plan t	34	Additional Income – Rs. 19760 / Ha	white grub was achieved	_	_

The	on groundnut	@	3. 100 grain		through	
excessiv	under field	4kg/ac	test		the	
e use of	condition	re.	weight in	49	manageme	
chemical			(gram)		nt using	
insectici					Heterorab	
des on					ditis	
groundn			4. Yield	21.60	indica,	
ut crops			qt/ha	21.69	eliminatin	
has					g the need	
raised					for	
concerns					chemical	
about					insecticide	
environ					spray.	
mental			5. B:C ratio:	1.69		
and						
human						
health						
impacts						

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) (spraying conventional insecticides general)	-	18.31	Q/ha	33404	1.44
Drenching of <i>Metarhizium</i> anisopliae@ 25kg/ha.	Visalakshi et al, 2023 (Published article)	20.73	Q/ha	47404	1.62
Technology option – Drenching of <i>Heterorabditis indica</i> @ 4kg/acre.	ICAR-SBI, 2021	21.69	Q/ha	53164	1.69

- Title of Technology Assessed: Drenching of *Heterorabditis indica* against the white grub, *Holotrichia serrata* (Fab) on groundnut under field condition
- Problem Definition: Losses in groundnut due to incidence of white grub. The excessive use of chemical insecticides on groundnut crops has raised concerns about environmental and human health impacts
- 3 Details of technologies selected for assessment: Drenching of Heterorabditis indica @ 4kg/acre
- 4 Source of technology: ICAR-SBI, 2021
- 5 Production system and thematic area: Integrated pest management
- 6 Performance of the Technology with performance indicators

Particulars	Unit	T1	T2	T3
white grub Infestation	(%)	15.7	8.33	4.76
Number of pods/plant	Number	25	31	34
100 grain test weight	(gram)	43	47	49
Yield	qt/ha	18.31	20.73	21.69
B:C ratio		1.44	1.62	1.69

Input Cost of Farmer (Control)	Input cost of demonstration	Additional cost incurred for new technology	gross	Farmer's gross income after use of new technology	Net income farmer after use of new technology
76456	76976	520	109860	130140	53164

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:

Farmers accepted the technology. Timely availability of entomopathogenic nematode requires advance planning. Saving of chemical pesticides without reduction in yield was appreciated by the participated farmers. Farmers gave first rank to drenching as it is very easy method and less time consuming and less laborious methods as compared to others.

- Final recommendation for micro level situation

 Drenching with *Heterorabditis indica* (EPN) @ 4 kg/acre is very effective.
- 9 Constraints identified and feedback for research

 Ensuring the timely availability of an efficient strain of entomopathogenic nematode is crucial for the success of the recommended approach.
- Process of farmers participation and their reaction

 Conducted group discussions and comprehensive training on drenching technology for participating farmers, instilling confidence through practical demonstrations of the drenching method.

Results of On Farm Trial 04

Crop/ enterpris e	Farming situation	Problem definitio	Title of OFT	No. of Trial s	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refineme nt needed	Justificati on for refinemen t									
1	2	3	4	5	6	7 1. leaf folder	8	9	The farmers	11	12									
		Losses			Two spraying	infestation (%)	1.11		were delighted to											
		in rice yield due to inciden	Manageme		of Chlorantranili prole 18.5%	Average no. of grains/ earhead	189	Addition acqui	acquire knowledge											
Paddy	Rainfe d	ce of leaf folder	nt of leaf folder in Rice	09 lit (First spraying at	09 lit (First spraying at	spraying at	lit (First spraying at	lit (First spraying at	09 lit (First spraying at	09 lit (First spraying at	lit (First spraying at	lit (First spraying at	lit (First spraying at	lit (First spraying at	Average no. of tillers/ plant	31	447.00 experience Additional in utilizing a Income – single	_	-	-
		in high			spraying 15	4. Yield (q/ha)	47.69	Rs 14755 / ha	pesticide for effective											
		rainfall area			days after first spraying.)	5. B:C Ratio	1.76		pest managemen t											

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18

Technology option 1 (Farmer's practice) (spraying conventional insecticides general)	-	40.78	Qtls / Ha	30457	1.51
Chlorpyriphos 20% EC @ 30 ml/15 lit. of water	PAU Ludhiana, 2023	45.85	Qtls / Ha	41164	1.69
Technology option 2- Spraying of Chlorantraniliprole 18.5% SC @ 3 ml/10 lit.	MPKV Rahuri, 2022	47.69	Qtls / Ha	45212	1.76

Details of on farm trial.

- 1. Title of Technology Assessed: Management of leaf folder in rice using new chemical insecticide
- 2 Problem Definition: Losses in paddy yield due to incidence of leaf folder under annual irrigated zone area.
- Details of technology selected for assessment:

 Spraying of Chlorantraniliprole 18.5% SC @ 3 ml/10 lit.. First spraying at ETL (10% leaf damage) and 2nd spraying 15 days after first spraying.
- 4 Source of technology: Mahatma Phule Agricultural University, Rahuri, 2022
- 5 Production system and thematic area:

Cultivation of paddy in sub mountain zone under annual irrigated situation with annual rainfall of less than 750 mm. leaf folder incidence in vegetative and grand growth stage (tillering) of crop. Farmers in the area are totally unaware about new chemistry molecules of pests and diseases. More dependency on local chemical pesticides.

Thematic area – Integrated pest management.

6 Performance of the Technology with performance indicators:

Particulars	Unit	T1	T2	Т3
leaf folder	(%)			
Infestation		8.17	2.17	1.11
Average no. of	Number			
grains/ earhead		164	181	189
Average no. of	Number	22	28	31

tillers/ plant				
Yield	q/ha	40.78	45.85	47.69
B:C ratio		1.51	1.69	1.76

Input Cost of Farmer (Control)	Input cost of demonstration	Additional cost incurred for new technology	gross	Farmer's gross income after use of new technology	Net income farmer after use of new technology
59259	59706	447	89716	104918	45212

If control and assessment trial results were compared, there is remarkable difference in leaf folder infestation in paddy. In new molecules assessed Chlorantraniliprole spraying, objective was to promote integrated pest management of crops.

- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

 Farmers were pleased after observing results of integrated pest management of leaf folder in paddy. Farmers were doubtful about timely
 availability of new molecules insecticides. As per availability they have given conditional first ranking if readily available. Second ranking to
 Chlorpyriphos and biopesticides.
- Final recommendation for micro level situation:

 Spraying of Chlorantraniliprole 18.5% SC @ 3 ml/10 lit. First spraying at ETL (10% leaf damage) and 2nd spraying 15 days after first spraying.
- Constraints identified and feedback for research
 Timely availability of new molecules insecticides at local place is constraint observed in the adoption of new technology.
- 10 Process of farmers participation and their reaction:

Facilitated a group discussion to promote awareness regarding the application of Chlorantraniliprole 02 sprayings for pest management, aiming to minimize the overuse of conventional pesticides. Farmers expressed enthusiasm and anticipation as they eagerly awaited the tangible results of their efforts.

Results of On Farm Trial – 05

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Rajma	Rainfed	Farmers	Use of	7	T3-	1)	28.7	Phule Rajma	Crop	-	-
		grows old	Phule		Technology	Average		variety has	growth of		
		varieties of	Rajma		assessed-	no. of		recorded	Phule		
		French bean	variety		New variety	pods/		21.25 % more	Rajma		
		that have	of		Phule Rajma	plant		yield over	was		
		low yield.	French					existing	excellent		
		Susceptible	bean in					variety Varun	and		
		to incidence	kharif					and 30.24 %	produced		
		of pest and	season					more yield on	more yield		
		diseases.						Local Variety	having		
									bold size		
									grains.		

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice); Local Variety	Local	10.45	q/ha	24750	1.42
Technology option 2: Varun	MPKV, Rahuri	11.22	q/ha	28392	1.46
Technology option 3: Phule Rajma	MPKV Rahuri	13.61	q/ha	45164	1.71

C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

Details of On Farm Trial.

1 Title of Technology Assessed

:

Use of Phule Rajma variety of French bean in kharif season.

2 Problem Definition

Farmers grows old varieties of French bean, that have low yield. Susceptible to incidence of pest and diseases.

3 Details of technologies selected for assessment:

New French bean variety Phule Rajma.

4 Source of technology

MPKV, Rahuri.

5 Production system and thematic area

Cultivation of French bean under raifed situation on medium to heavy soil. Varietal Evaluation.

6 Performance of the Technology with performance indicators:

Particulars	Unit	T1	T2	T3
1) Days to maturity	days	88.23	79.61	80.12
2) No. of seeds per pod		4.52	5.04	5.19
3) No of pods per plant		21.4	26.3	28.7
4) Yield	q/ha	10.45	11.22	13.61
5) B:C ratio		1.42	1.46	1.71

Input cost of	Input cost of	Additional cost	Farmers gross income	Farmers gross income	Farmers net income
Farmer (Control)	demonstration	incurred for new	Rs./ha	after use of new	after use of new
Rs./ha	Rs./ha	technology Rs./ha		technology Rs./ha	technology Rs./ha
58850	63716	4866	83600	108880	25280

- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:
 Farmers were contented after observing yield and yield contributing characters of phule Rajama variety of French bean.
 Bold grain size, vigorous growth, resistant to fusarium wilt and CBMV were observed. As per yield character, farmers gave first ranking to Phule Rajama.
- 8. Final recommendation for micro level situation.

New variety Phule Rajamarecorded more yield, and yield attributing characters over existing variety Varun. Need to be demonstrated on large acreage under FLD.

9 Constraints identified and feedback for research

Farmers generally demand for table purpose French bean varieties.

10 Process of farmers participation and their Reaction

Farmers actively participated in training, and implementation of assessment trial. Phule Rajamagave more grain yield. bold grain size, resistant to fusarium wilt and CBMV than existing Varun and Local.

Results of On Farm Trial 06

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
		Conventional transplanting is manual seedling transplantation performed by hand in bending posture Back pain and leg pain, repetitive strain, time consuming	Assessment of Seedling transplanter for vegetable (seedlings) plantation	Seven	Seedling Transplanter for vegetable plantation	1. Area covered by worker (Sq.mt/hr) 2. Labour Requirement (Women/100 seedlings) 3. Percent reduction in cost of cultivation	by traditional practice and 615.42 by seedling transplanter 2) 17 labors by traditional practice and 4.75 labours by seedling transplanter 3) 72.05%	Area covered by labour by using seedling transplanter is more when compared to traditional practice. This technology is great when it comes to labour consumption. Also percent reduction in the cost by use of this technology is 72.05	Technology is good	Height should be adjustable	For tall people they need to bend little bit while using seedling transplanter
		Low rate of rural women entrepreneurs High drudgery of rural farm women while milling dal	Entrepreneurship development through table top Mini dal mill	seven	Entrepreneurship development through table top Mini dal mill	1. Milling capacity Kg/hr 2. Milling efficiency 3.Income generated per month (Rs)	1) 45 kg/hr 2) Good 3) 15000 Rs/ month	Use of mini dhal mill is very easy and all types of dhal can be prepared in this. Milling capacity is very good.	Low space consuming and very useful technology.	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	B:C Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	VNMKV, Parbhani, 2015				
Technology option 2	CIAE, Bhopal				
Technology option 3					

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

- 1. Title of Technology Assessed: Assessment of Seedling transplanter for vegetable (seedlings) plantation
- 2. Problem Definition: Conventional transplanting is manual seedling transplantation performed by hand in bending posture Back pain and leg pain, repetitive strain, time consuming
- 3. Details of technologies selected for assessment: Use of seedling transplanter to reduce the drudgery
- 4. Source of technology: VNMKV, Parbhani, 2015
- 5. Production system and thematic area: Location specific drudgery reduction technologies
- 6. Performance of the Technology with performance indicators: Milling capacity and speed both is good of this mini dhal mill
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :
- 8. Final recommendation for micro level situation: Yes
- 9. Constraints identified and feedback for research: Height of the seedling transplanter should be adjustable
- 10. Process of farmers participation and their reaction: Farmers participation was very good and it avoids bending posture therefore its good. But it can not be used in irrigated plot.
- 11. Good Quality Photo in JPG (separate with proper caption)

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

- 1. Title of Technology Assessed: Entrepreneurship development through table top Mini dal mill
- 2. Problem Definition: Low rate of rural women entrepreneurs. High drudgery of rural farm women while milling dal
- 3. Details of technologies selected for assessment: Entrepreneurship development through table top Mini dal mill
- 4. Source of technology: CIAE Bhopal
- 5. Production system and thematic area: Entrepreneurship Development
- 6. Performance of the Technology with performance indicators
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8. Final recommendation for micro level situation: Yes
- 9. Constraints identified and feedback for research:Nil
- 10. Process of farmers participation and their reaction: Farmers participation was good and it avoids bending posture therefore its good. But it can not be used in irrigated plot.
- 11. Good Quality Photo in JPG (separate with proper caption)

3.3. FRONTLINE DEMONSTRATION

A. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2023 and recommended for large scale adoption in the district

S.	Crop/	Thematic	Technology demonstrated	Details of popularization methods suggested to the Extension	Hori	d of	
No	Enterprise	Area*	reemology demonstrated	system		technology	
1	Fingermillet	INM	Use of 19:19:19 NPK On Fingermillet	FLD, Training, Input supply, Field visits, Field Days	01	13	5.0
2	Soybean	ICM	Demonstration on phuleSangam Soybean in irrigated condition	FLD, Training, Input supply, Field visits, Field Days	01	13	5.0
3	Sugarcane	INM	Use of liquid Acetobactor in Preseasonal Sugarcane crop	FLD, Training, Input supply, Field visits, Field Days	01	13	5.0
4	Sugarcane	RCT	Demonstration of Zero tillage Sugarcane ratoon management	FLD, Training, Input supply, Field visits, Field Days	01	13	5.0

B. Details of FLDs implemented during 2023 (Kharif 2023, Rabi 2022-23, Summer 2023) (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

SI. No.	Сгор	Thematic area	Technology Demonstrate d	Season and year	Area (h	a)		Reasons for shortfall in achievement		
					Proposed	Actual	SC/ST	Others	Total	
1.	Fingermil let	INM	Use of 19 :19:19 NPK On Fingermillet	Kharif 2023	5.0	5.0	0	13	13	
2.	Soybean	ICM	Demonstratio n on phuleSangam Soybean in irrigated condition	Rabi 2023	5.0	5.0	0	13	13	
3	Sugarcane	INM	Use of liquid Acetobactor in Preseasonal Sugarcane crop	Rabi 2023	5.0	5.0	0	13	13	
4	Sugarcane	RCT	Demonstratio n of Zero tillage Sugarcane	Rabi 2023	5.0	5.0	0	13	13	

		ratoon management							
Fertilizer carrying	Drudgery reduction technology	Use of Fertilizer	Rabi 2022	0	0	00	10	10	
Twin wheel	Drudgery reduction	Use of Twin wheel hoe	Rabi 2022	0	0	00	13	13	
kitchen garden	Household food security by kitchen gardening & nutrition gardening	Developme nt of Household kitchen garden	Kharif 2022	0	0	00	10	10	
Spiral grain separator	Drudgery reduction technology	Use of Spiral grain separator	Kharif 2022	0	0	00	13	13	
Wheat	INM	Demonstrati on of RDF for wheat for better	Rabi 2022	0	0	00	13	13	
Finger millet	INM	Demonstrati on of use of Urea DAP Briquette in Nagli	Kharif 2022	0	0	00	13	13	
Chick pea	INM	Spraying of 13.00.45 at flowering stage	Rabi 2022	0	0	00	13	13	
Sugarcane	INM	Demonstrati on on Spraying of Multi Micro and Macro nutrient on Sugarcane	Kharif 2022	0	0	00	13	13	
	carrying bag Twin wheel hoe kitchen garden Spiral grain separator Wheat Finger millet Chick pea	carrying bag reduction technology Twin Drudgery reduction hoe technology kitchen garden Household food security by kitchen gardening & nutrition gardening Spiral grain separator Preduction technology Wheat INM Finger millet INM	Fertilizer carrying reduction bag technology reduction hoe technology kitchen gardening separator Production technology Spiral grain separator Prince wheat for better yield separator Chick pea INM Spraying of Multi Micro and Macro nutrient on Spraying of Multi Micro and Macro nutrient on Spraying of Multi Micro and Macro nutrient on of Spiral grain separation Sugardening Spiral grain separator Sugardening Spiral grain separator Sugardening Sugar	Fertilizer carrying reduction bag technology reduction hoe technology wheel hoe hoe technology kitchen garden separator reduction technology reduction security by kitchen gardening and separator reduction technology reduction separator reduction technology reduction separator reduction technology reduction technology reduction technology separator reduction technology reduction separator reduction technology reduction separator reduction reduction reduction separator reduction redu	Fertilizer carrying reduction bag technology reduction hoe technology wheel reduction hoe technology kitchen gardening & nutrition gardening separator reduction technology ardening & nutrition gardening & nutrition on GRDF for wheat for better yield & nutrition on Guse of Urea DAP Briquette in Nagli & nutrition on Guse of Urea DAP Briquette in Nagli & nutrition on On Spraying of Multi Micro and Macro nutrient on on utrient on on use on utrient on on utrient on on utrient on on use on utrient on on use on utrient on on use of utrient on on utrient on on utrient on on use of utrient on on	Fertilizer carrying bag technology reduction bag technology carrying bag technology carrying bag technology carrying bag Use of Twin wheel hoe technology wheel hoe technology kitchen garden gardening & nutrition gardening brown technology with technology kitchen gardening & nutrition gardening brown technology with the gardening brown the gardening brown technology with the gardening brown treduction technology with technology	Fertilizer carrying bag Use of Fertilizer carrying bag Use of Fertilizer carrying bag Drudgery reduction boe technology Use of Twin wheel hoe technology Whitchen gardening & nutrition gardening & nutrition gardening & nutrition gardening & separator The technology Use of Twin gardening & nutrition gardening &	Pertilizer Carrying Pert	Fertilizer carrying Carrying

Details of farming situation

Сгор	Season	ng situation Trrigated)	Soil type	Status of soil		Status of soil		Status of soil		vious crop		mal rainfall (mm)	Frainy days
	32	Farming (RF/Ir	, so	N	P	K	Pre	Sov	На	Seaso	No. of		
Finger millet	Kharif 2023	Rainfed	Light soil	276.42	6.32	454.74	Bengal gram	10 June 2023	22 Oct 2023	1435	69		
Soybean	Kharif 2023	Irrigated	Heavy	247.0	5.69	435.55	Ratoon Sugarcane	18 June 2023	10 Oct 2023	940	58		
Suru Sugarcane	Rabi 2023	Irrigated	Heavy	387.32	6.64	488.27	Soybean	15 Dec 2023	Crop is standing	940	58		
Ratoon sugarcane	Rabi 2023	Irrigated	Heavy	367.40	6.87	432.12	Sugarcane	10 Dec 2023	Crop is standing	940	57		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Use of 19:19:19 NPK as Foliar fertilizer on Finger millet
	Spraying of 19:19:19 NPK foliar grade fertilizer on fingermillet at pre flowering stage resulting more yield than untreated plot.
2	Soybean
	Farmers were happy to use of Phulesangam variety as it yields higher than other varieties. Bold seeded grains.
3	Use of Liquid Acetobacter in Suru Sugarcane (Last year)
	Spraying of liquid Acetobacter in suru sugarcane resulting vigorous growth, farmers were surprised to see the results of Acetobacter on sugarcane, yield of treated sugarcane is more
	than conventional plot.
4	Zero tillage sugarcane ratoon management (Last year)
	After implementation of Zero tillage sugarcane ratoon management, farmers were surprised to see the results on Zero tillage sugarcane ratoonmanagement, yield of Zero tillage
	sugarcane ratoon management is more conventional ratoon management.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Zero tillage sugarcane ratoon management (Last year)
	After implementation of Zero tillage sugarcane ratoon management, farmers were surprised to see the results on Zero tillage sugarcane ratoonmanagement, yield of Zero tillage
	sugarcane ratoon management is more conventional ratoon management.
2	Use of Liquid Acetobacter in Suru Sugarcane (Last year)
	Spraying of liquid Acetobacter in suru sugarcane resulting vigorous growth, farmers were surprised to see the results of Acetobacter on sugarcane, yield of treated sugarcane is
	more than conventional plot.
3	Use of 19:19:19 NPK as Foliar fertilizer on Finger millet
	Spraying of 19:19:19 NPK foliar grade fertilizer on fingermillet at pre flowering stage resulting more yield than untreated plot.
4	Finger millet
	Farmers were happy to use of briquettes as they have saved fertilizers, cost on fertilizer and also improves yield.
5	spiral grain separator
	Use of spiral grain separator reduces the labour requirement of grain cleaning
6	Use of Grain pro Bags
	This is mainly a drudgery reduction technology which was also usefull to save time, money and labour.

7	Use of Fertilizer Carrying Bag (Sulbha bag)
	Use of Sulbha bags reduced the operating cost of fertilizer application activity by 57.09 percent
8	Development of kitchen garden
	Development of kitchen garden showed increse in the consumption frequency of vegetables and fruits
9	Use of 19:19:19 NPK as Foliar fertilizer on Finger millet
	Spraying of 19:19:19 NPK foliar grade fertilizer on fingermillet at pre flowering stage resulting more number of tillers, more number of grains per panicle and yield than
	untreated plot.
10	Finger millet
	As this area is under heavy rainfall and to avoid leaching losses of nutrients the nutrients should be given in form of briquette. Briquettes application to be done at appropriate
	time and planning.
11	Wheat:
	Spraying of 19:19:19 can be replaced by using DAP and the accurate stage of spraying should be achieved i.e. 55 and 70 DAS. The spray can increase quality, quantity and
	weight of each grain.
12	Demonstration on Spraying of Multi Micro and Macro nutrient on Sugarcane
	Better than local technology.

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

				No. of	Area		Yield (q/ha) Demo Check in				Eco		demonstra s./ha)	ation]		s of check ./ha)	2
Crop	Thematic Area	technology demonstrated	Variety	Farmers	(ha)			o Average	Check	in viold	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Groundnut																		
Sesamum																		
Mustard																		
Safflower																		
Linseed																		
						<u> </u>			<u> </u>		<u></u>							

Sunflower																		
Soybean	Varietal	Demonstration of new high yielding variety Phule Sangam (KDS-726)	PhuleSangam	13	5	34.53	29.15	31.84	27.89	14.16	78246	146464	68218	1.87	75460	128294	52834	1.70
	introduction	variety Phule Sangam (KDS-726)	(KDS-726)															
Castor																		
					<u> </u>	<u> </u>									1			<u></u>

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

				(IIa)		Yie	ld (q/ha)			Econor	nics of de	monstration (Rs./ha)			ics of check ks./ha)		
Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	(ha)		Den		Check	% Increase in yield	Gross	Gross Return	Net Return	BCR	Gross		Net Return	BCR
						High	Low	Average	CHECK		Cost	Return	Net Keturn	(R/C)	Cost	Return	Net Ketui ii	(R/C)
Pigeonpea																		
Blackgram																		
Greengram																		
Chickpea																		
Fieldpea																		
Lentil																		
Horsegram																		
					•													

Cowpea									
					•				

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category &	Thematic	Name of the	No. of	Are		Yield	l (q/ha)		% Chang		her neters	Economi	ics of demor	stration (R	s./ha)	Eco	nomics of cl	eck (Rs./ha)
Crop	Area	technology	Farmer s	a (ha)	High	Demo Low	Averag e	Check	e in Yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals																			
Paddy	Integrated pest managemen t	Managemen t of caseworm in rice using biological control	15	5	5		47.28	41.1 8	44.23	39.5 1	11.9	59921	97306	37385	1.6 2	59851	86922	27071	1.4
Waterlogged Situation																			
Coarse Rice																			
Scented Rice												i i							
Wheat																			
Wheat Timely sown																			
Wheat Late Sown																			

	T		:	T						Ī		:			:	<u> </u>	[
Mandua																			
Manua																			
Barley												<u> </u>							
Maize																			
IVIAILC																			
Amaranth																			
												•							
Millets																			
Williets																			
Jowar												<u> </u>							
Bajra																			
Barnvard																			
Barnyard millet																			
Finger millet	INM	Coroving of	13	5	25.38	19.3	22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Finger millet	INM	Spraying of 19:19:19 foliar grade fertilizer 2 % at pre flowering stage	13	5	25.38	19.3 4	22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables Bottlegourd	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables Bottlegourd	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables Bottlegourd Bittergourd	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables Bottlegourd	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53
Vegetables Bottlegourd Bittergourd	INM	19:19:19 foliar grade fertilizer 2 % at pre flowering	13	5	25.38		22.36	20.41	09.55	98	86	53871	89440	35569	1.66	48544	53150	28490	1.53

Spongegourd													
Spongegouru													
										•••••			
Petha													
Tomato													
Frenchbean													
1101101100													
Capsicum													
Clini													
Chilli					 								
Brinjal													
Dillijai													
Vegetable													
pea													
Softgourd													
Okra													
OMa													
Colocasia													
(Arvi)													
				İ									
Broccoli													
ļ		ļ											
Cucumber													
		İ											
Onion													
J													
Coriender													
	. <u>.</u>	. <u>.</u>	.		 	 <u>.</u>	å	 	 		 i	.	

			T						-		
_											
Lettuce											
Cabbage											
Cauliflower											
Cuulino wei											
El l 4											
Elephant fruit											
fruit											
Any other (Pl specify)											
specify)											
Flower crops											
•											
Marigold			•								
Bela											
Dela											
			 -								
Tuberose											
Gladiolus											
Any other (Pl. specify)											
specify)											
		•									
Fruit crops											
Mana-											
Mango											
Strawberry											
Guava											
				 7	 	 					
Banana											
Papaya											
- upuju	***************************************										

Muskmelon Watermelon Any other (Pl. specify) Spices & condiments Ginger			
In the second se			
Any other (Pl. specify) Spices & condiments Any other (Pl. specify) Spices & condiments			
Spices & condiments of the con			
Spices & condiments of the con			
specify) Specify Sp			
specify) Specify Sp			
specify) Specify Sp			
Spices & condiments of the con			·•
condiments			
condiments			
Ginger Control			
Garlic			
Turmeric University of the Control o			
Any other (Pl.			
specify)			
Commercial			
Crops			
Suru ICM Use of 13 5 Result			
Sugarcane Acetobacter awaite culture at 60 d			
and 90 DAS in			
suru sugarcane			
ICM Use of 13 5 1287 961 1124 1014 10.84 22 16 136275 337200 200925 2.47	128853 304200	175347	2.36
Acetobacter culture at 60			
and 90 DAS in			
suru sugarcane			
Ratoon RCT Trash 13 5 Result			
Sugarcane management, awaite INM through d			
INM through d crow bar.			
	11469 28350	16881	2.4
management,	0 0	0	7
INM through	U	U	1
crow bar.			
Potato			
Cotton Co			
Any other (Pl.			

specify)	T	I														
specify) Medicinal &																
aromatic																
plants																
Mentholment																
Kalmegh																
Ashwagandh																
a																
Any other (Pl.																
specify)																
Fodder																
Crops																
Crops Sorghum (F)																
Cowpea (F)										•						
Maize (F)																
T																
Lucern																
Berseem																
Del Scelli																
							<u>.</u>									-
Oat (F)																
- Cut (1)													 			
Napier																
				***************************************			†			†						1
Grasses										•						
							\$			•						
					•		•	•		•						
L	.4	.4	<u>i</u>	 	.4	.4	A		b	Α	t	i	 	4		i

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

C	Thematic	Technology	T 7	No. of	Area		Yie	ld (q/ha)		%	Econo		demonstr /ha)	ation	E		s of chec /ha)	k
Crop	Area	demonstrated	Variety	Farmers	(ha)	High	Dem Low	o Average	Check	in yield	Gross Cost	Gross Return	Net Return		Gross Cost		Net Return	BCR (R/C)
Bajra	Dryland farming	Introduction of ICTP 8203 Phule Dhanshakti variety of pearl millet (Bajra)	ICTP 8203 Fe Dhanshakti	13	5	21.33			18.72	13.94	40464	53325	12861	1.32	38719	46800	8081	1.21
Finger millet	Dryland farming	Introduction of Phule Nachani variety of finger millet	Phule Nachani	13	5	21.20			17.58	20.59	52485	84800	32315	1.61	49469	70320	20851	1.42

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	para	ajor neters	% change	para	her meter		omics of (R	s.)			conomics (Rs	i.)	
					Demo	Check	in major parameter		Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle													(()
Buffalo																	
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep &																	
Goat																	
Vaccination																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Cotogony	Thematic	Name of the	No. of	No.of	Major pa	rameters	% change	Other pa	rameter	Econo	omics of den	nonstration	(Rs.)		Economics (R		
Category	area	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composite fish culture																	
			•														
Feed Manageme nt																	

^{*} Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major par	ameters	% change in major	Other p	arameter	Econoi	mics of dem Rs./	onstration (unit	Rs.) or			s of check Rs./unit	
				Demo	Check	parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
Button Mushroom																
Apiculture																
Maize Sheller																

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major par	ameters	% change in major	Other p	arameter	Econor		onstration (unit	Rs.) or			s of check Rs./unit	
				Demo	Check	parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Value Addition																
vauc Auution																
Vermi Compost																
Sericulture																

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed obse (output/ma		% change in major	Labo	or reduction	ı (man days)	(Rs	Cost redu ./ha or Rs.		
						Demo	Check	parameter	Land preparation	Sowing	Weeding	4	Land preparatio n	Labour	Irrigati on	Total
Spiral grain seperator	Soyabean	Spiral grain seperator	13	-	1) Time required / 100 kg grainsin hrs 2) Labour requirement women/ 100 kg 3) Operating cost Rs/ 100 kg	0.3	19.75	98.48 97.23 98.29								
						0.09 12.8	3.25 750					3.16/ 100 kg		Rs737.2/ 100 kg		

FLD on Other Enterprise: Kitchen Gardening

Nutrition garden components	Thematic area	Area (sq mt)	No. of Farmer	No. of Units	vegetables	- supply of , fruits, etc in the year	% change in yield		ehold size ımber)	Eco	onomics of d (Rs./		on		Economics ((Rs./h		
					Demons ration	Check*		Demo	Check	Gross Cost	Gross Return/S avings*	Net Return	BCR (R/C)	Gross Cost	Gross Return/ Savings*	Net Return	BCR (R/C)
	Nutrition Gardening	512	13	13	216	70	72.8	4	4	450	4320	3870	9.6	200	1400	1200	7

^{*}check maybe family adopting different Nutrition garden model/ no adoption of Nutrition garden model Savings from produce of Nutrition garden used for home consumption

FLD on Demonstration details on crop hybrids

			N			Yield (q/h	ıa)		0/ 7	Econ	omics of demo	nstration (Rs./h	a)
Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)		Demo		Check	% Increase in yield	Gross	Gross	Net Return	BCR
					High	Low	Average			Cost	Return		(R/C)
Oilseed crop													
Pulse crop													
Cereal crop													
Vegetable crop													

Fruit crop							
Other (specify)							

Note: Remove the Enterprises/crops which have not been shown

3.4. Training Programmes (Online programmes if any should be included under On Campus category)

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of				I	Participant	S			
1.10.11.11.11.11.11.11.11.11.11.11.11.11	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	5	78	8	86	2	0	2	80	8	88
Soil & water conservation					_	-			-	
Integrated nutrient management										
Production of organic inputs										
Others (pl. specify)										
Total	5	78	8	86	2	0	2	80	8	88
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	2	14	0	14	0	0	0	14	0	14
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	2	14	0	14	0	0	0	14	0	14
b) Fruits		17		17	- 0	U		17	U	14
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards	1	9	10	19	2	0	2	11	10	21
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)	1	9	10	19	2	0	2	11	10	21
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f) g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
1 ost harvest technology and value addition		<u> </u>	<u> </u>	I				Ī		

Others (pl specify)										[]
Total (g)										
Grand Total (a to g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	3	102	13	115	0	0	0	102	13	105
Production and use of organic inputs										
Management of Problematic soils	1	9	18	27	0	0	0	9	18	27
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	1	9	18	27	0	0	0	9	18	27
Others (pl specify)										
Total	5	120	49	169	0	0	0	120	49	169
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total										
V Home Science/Women empowerment	0	0	0	0	0	0	0	0	0	0
Household food security by kitchen gardening and										
nutrition gardening	1	22	0	22	0	0	0	22	0	22
Design and development of low/minimum cost										
diet										
Designing and development for high nutrient										
efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	03	22	44	66	1	8	9	23	52	75
Women empowerment	03	21	37	58	2	2	4	23	39	62
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	7	45	81	146	3	10	13	68	91	159
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation										
systems										
systems Use of Plastics in farming practices										
Systems Use of Plastics in farming practices Production of small tools and implements										
Systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify)										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection	3	31	36	67	0	0	0	31	36	67
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management	3	31	36	67	0	0	0	31	36	67
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management	3	31	36	67	0	0	0	31	36	67
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases	3	31	36	67	0	0	0	31	36	67
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio	3	31	36	67	0	0	0	31	36	67
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides	3	31	36	67	0	0	0	31	36	67
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify)										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total	3	31	36	67	0	0	0	31	36	67
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries Integrated fish farming										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries Integrated fish farming Carp breeding and hatchery management										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing Composite fish culture										
systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing										

Breeding and culture of ornamental fishes									ĺ	
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics	1	52	0	52	0	0	0	52	0	52
Formation and Management of SHGs										
Mobilization of social capital	1	18	7	25	0	0	0	18	7	25
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify) Organic farming	1	54	6	60	0	0	0	54	6	60
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	3	124	13	137	0	0	0	124	13	137
GRAND TOTAL	23	390	161	571	7	10	17	417	171	588

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				I	Participant	ts			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies	1	46	0	46	0	0	0	46	0	46
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	12	517	68	585	3	0	3	520	68	588
Soil & water conservation										<u> </u>
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	13	562	68	604	3	0	3	566	68	634
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	7	132	13	145	0	0	0	132	13	145
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										<u> </u>

Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	7	132	13	145	0	0	0	132	13	145
b) Fruits										
Training and Pruning Layout and Management of Orchards										
Cultivation of Fruit	1	14	32	46	0	0	0	14	32	46
Management of young plants/orchards	1	12	20	32	0	0	0	12	20	32
Rejuvenation of old orchards	1	12	20	32	0	U	0	12	20	32
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	2	26	52	78	0	0	0	26	52	78
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants Others (planearity)				-	+				+	
Others (pl specify) Total (c)					+				+	
d) Plantation crops					+				+	
Production and Management technology					+				+	
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify) Total (f)					+					
g) Medicinal and Aromatic Plants					+				+	
Nursery management					+				+	
Production and management technology					+				+	
Post harvest technology and value addition										
Others (pl specify)										
Total (g)					1				1	
Grand Total (a to g)										
III Soil Health and Fertility Management										
Soil fertility management	1	27	107	134	0	0	0	27	107	134
Integrated water management										
Integrated Nutrient Management	6	185	36	221	0	0	0	185	36	221
Production and use of organic inputs	2	87	9	96	0	0	0	87	9	96
Management of Problematic soils										
Micro nutrient deficiency in crops Nutrient Use Efficiency										
Balance use of fertilizers					+					
Soil and Water Testing	2	87	0	87	0	0	0	87	0	87
Others (pl specify)		01	U	0/	U	U	U	0/	U	0/
Total	11	386	152	538	0	0	0	386	152	538
IV Livestock Production and Management	**	200	102	220		U	•	200	102	
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	1	ļ								
V Home Science/Women empowerment Household food security by kitchen gardening										

Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1	6	86	92	0	1	4	6	90	96
Minimization of nutrient loss in processing	1 2	22	11	33	1	0	<u>4</u> 1	23	11	34
Processing and cooking			- 11	33	1	0	1	23	- 11	31
Gender mainstreaming through SHGs	1	19	1	20	2	0	2	21	1	22
Storage loss minimization techniques										
Value addition										
Women empowerment	8	154	110	264	9	6	15	163	116	279
Location specific drudgery reduction technologies	2	8	44	52	0	1	1	8	45	53
Rural Crafts										
Women and child care										
Others (pl specify) Total	14	209	252	461	12	11	23	221	263	484
VI Agril. Engineering	14	209	252	401	14	11	23	221	203	404
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation										
systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection	- 2	10		40					0	
Integrated Pest Management	3	43	5	48	5	0	5	53	0	53
Integrated Disease Management Bio-control of pests and diseases										
Production of bio control agents and bio										
pesticides										
Others (pl specify) Total	3	43	5	48	5	0	5	53	0	53
VIII Fisheries		73	3	70	3	U	3	33	U	- 33
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
2 STANDIO PIADITO CAI P HARCHOLY										
Pen culture of fish and prawn										
Pen culture of fish and prawn Shrimp farming										
Pen culture of fish and prawn Shrimp farming Edible oyster farming										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify)										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and fodder										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed Mushroom Production										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed Mushroom Production Apiculture										
Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production Vermi-compost production Organic manures production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed Mushroom Production Apiculture Others (pl specify)										

Group dynamics	4	73	44	117	0	0	0	73	44	117
Formation and Management of SHGs										
Mobilization of social capital	5	170	6	176	0	0	0	170	6	176
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	9	243	50	293	0	0	0	243	50	293
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total			•							
GRAND TOTAL	59	1601	592	2167	20	11	31	1627	598	2225

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of				I	Participant	s			
Thematic area	courses		Others		1	SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies	1	46	0	46	0	0	0	46	0	46
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	17	95	76	671	5	0	5	600	76	676
Soil & water conservation	17	75	70	071		0		000	70	070
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
	10	1.41	7(717	_	0	5	(1(7.0	722
Total	18	141	76	717	5	0	3	646	76	722
II Horticulture										
a) Vegetable Crops			10	4.50					- 10	4.70
Production of low value and high value crops	9	146	13	159	0	0	0	146	13	159
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	9	146	13	159	0	0	0	146	13	159
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	14	32	46	0	0	0	14	32	46
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants		-						-		
Export potential of ornamental plants		-						-		
		-						-		
Propagation techniques of Ornamental Plants		<u> </u>	-					<u> </u>		
Others (pl specify)		-						-		
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										

Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	1	14	32	46	0	0	0	14	32	46
III Soil Health and Fertility Management										
Soil fertility management	1	27	107	134	0	0	0	27	107	134
Integrated water management										
Integrated Nutrient Management	9	287	49	336	0	0	0	287	49	336
Production and use of organic inputs										
Management of Problematic soils	1	9	18	27	0	0	0	9	18	27
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	3	96	18	114	0	0	0	96	18	114
Others (pl specify)	14	419	192	611	0	0	0	419	192	611
Total										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										L
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total										L
V Home Science/Women empowerment										
Household food security by kitchen gardening and										l
nutrition gardening	1	22	0	22	0	0	0	22	0	22
Design and development of low/minimum cost										
diet										
Designing and development for high nutrient										l
efficiency diet	1	19	1	20	2	0	2	21	1	22
Minimization of nutrient loss in processing	1	6	86	92	0	4	4	6	90	96
Processing and cooking										
Gender mainstreaming through SHGs										<u> </u>
Storage loss minimization techniques										<u> </u>
Value addition	5	44	55	99	2	8	10	46	63	109
Women empowerment	11	175	147	322	11	8	19	186	155	341
Location specific drudgery reduction technologies	2	8	44	52	0	1	1	8	45	53
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	21	274	333	607	15	21	36	289	354	643
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation										_
systems Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										1
Small scale processing and value addition										
Post Harvest Technology Others (pl. specify)										
Others (pl specify)										
Total VII Plant Protection										
Integrated Pest Management	6	74	41	115	5	0	5	79	120	199
HILESTATER FEST INTALIAGE HIERIT	O	/4	41	113	3	U	3	79	120	199

Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio										
pesticides										
Others (pl specify)										
Total	6	74	41	115	5	0	5	79	120	199
VIII Fisheries		, ·		110		•		.,	120	1//
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	5	125	44	169	0	0	0	125	44	169
Formation and Management of SHGs		123	7-1	107	U	- 0		123	-T-F	107
Mobilization of social capital	6	188	13	201	0	0	0	188	13	201
Entrepreneurial development of farmers/youths		100	13	201	Ü		0	100	1.5	201
WTO and IPR issues										
Others (pl specify)	1	54	6	60	0	0	0	54	6	60
Total	12	367	63	430	0	0	0	367	63	430
XI Agro-forestry	1.2		00		Ť	<u> </u>	•	50.	00	
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	82	1435	750	2685	25	21	46	1960	850	2810
Canada I Canada	02	1700	,50	2000	4 0		-10	1700	0.50	2010

Training for Rural Youths including sponsored training programmes (On campus)

	N6				No. of	Participants	3			
Area of training	No. of Courses	Ge	neral/ Others	S		SC/ST			Grand Total	
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming	2	147	114	261	6	5	11	153	119	272
Seed production										
Production of organic inputs	2	53	25	78	1	0	1	54	25	79
Planting material production										

Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	1	0	20	20	0	1	1	0	21	21
Production of quality animal										
products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	14	10	24	1	0	1	15	10	25
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other (pl. specify)	2	99	67	166	0	0	0	99	67	166
TOTAL	8	313	236	549	8	6	14	321	242	563

Training for Rural Youths including sponsored training programmes (Off campus)

	T T				No. of	Participants	S			
Area of training	No. of Courses	G	eneral/ Others			Grand Total	í			
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition										
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					
Any other (pl. specify)					
TOTAL					

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

	No. of		1167		No. of	Participants	1			
Area of training	Courses	Male Ge	neral/ Others Female	Total	Male	SC/ST Female	Total	Male	Grand Total Female	Total
Nursery Management of		Maic	remate	Total	Maic	Female	Total	Maic	remate	Total
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming	2	147	114	261	6	5	11	153	119	272
Seed production										
Production of organic inputs	2	53	25	78	1	0	1	54	25	79
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	1	0	20	20	0	0	0	0	20	20
Production of quality animal										
products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	14	10	24	1	0	1	15	10	25
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other (pl. specify)	2	99	67	166	0	0	0	99	67	166
TOTAL	8	313	236	549	8	6	14	321	242	563

Training programmes for Extension Personnel including sponsored training (on campus)

	No. of	No. of Participants								
Area of training	Course	G	eneral/ Oth	ers		SC/ST		Grand Total		
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	l	e	e	l	e	e	l
Productivity enhancement in field crops	2	103	2	105	0	0	0	103	2	105
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	2	72	4	76	0	0	0	72	4	76
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	4	175	6	181	0	0	0	175	6	181

Training programmes for Extension Personnel including sponsored training (off campus)

	No. of				No.	of Particip	pants			
Area of training	Course	Ge	eneral/ Oth	ers		SC/ST		(Grand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	l	e	e	l	e	e	l
Productivity enhancement in field crops	2	136	18	154	16	6	22	152	24	176
Integrated Pest Management										
Integrated Nutrient management	1	47	9	56	0	0	0	47	9	56
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										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	3	183	27	210	16	6	22	199	33	232

$Training\ programmes\ for\ Extension\ Personnel\ including\ sponsored\ training\ -\ CONSOLIDATED\ (On\ +\ Off\ campus)$

	No. of				No.	of Particip	pants			
Area of training	Course	Ge	eneral/ Oth	ers		SC/ST		(Frand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	l	e	e	l	e	e	l
Productivity enhancement in field crops	4	239	20	259	16	6	22	255	26	281
Integrated Pest Management										
Integrated Nutrient management	1	47	9	56	0	0	0	47	9	56
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	2	72	4	76	0	0	0	72	4	76
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	7	358	33	391	16	6	22	374	39	413

Sponsored training programmes

	No. of Courses				No. of	f Participa	nts			
Area of training	Courses	General/Others SC/ST Grand						Grand Tot	al	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	1	34	0	34	0	0	0	34	0	34
Commercial production of vegetables							-			
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Organic Farming	1	54	6	60	0	0	0	54	6	60
Total	2	88	6	94	0	0	0	88	6	94
GRAND TOTAL	2	88	6	94	0	0	0	88	6	94

Details of vocational training programmes carried out by KVKs for rural youth (4 or more days)

	No. of									
Area of training	Courses	(eneral/ Others		SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming	1	17	7	24	1	0	1	18	7	25
Others (pl. specify)										
Total										
Post harvest technology and value										
addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming		•								
Composite fish culture		•								
Sheep and goat rearing		•								
Piggery		•								

Poultry farming	3	35	27	62	3	0	3	38	0	38
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-										
pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm										
machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery,	1	0	20	20	1	0	1	21	0	21
dying etc.	1	U	20	20		U	1	21	U	21
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group										
dynamics										
Others (pl. specify)										
Total	5	52	54	106	5	0	5	77	7	84
Grand Total	5	52	54	106	5	0	5	77	7	84

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	32	4520	325	4845
Diagnostic visits	108	1082	207	1289
Field Day	14	219	38	257
Group discussions	17	122	73	195
Kisan Ghosthi	0	0	0	0
Film Show	4	210	12	222
Self -help groups	1	303	2	305
Kisan Mela	1	105	5	110
Exhibition	1	40	6	46
Scientists' visit to farmers field	0	0	0	0
Plant/animal health camps	1	47	4	51
Farm Science Club	1	57	6	63
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	3	150	15	165
Method Demonstrations	5	81	4	85
Celebration of important days	11	367	27	394
Special day celebration	0	0	0	0
Exposure visits	9	123	16	139
	208	7426	740	8166
Others (pl.specify)	0	0	0	0
Animal Vaccination	1	47	4	51
Bal Anand Mela	1	202	10	212
Blood Donation Camp	1	13	9	22
Conducted Exam Skill Training Small organic cultivar	1	23	2	25
Evaluation of Fruit for Compitation	1	1	7	8
Felicitation Award Wing Farmer	1	0	0	0
Garden Development	2	7	12	19
HRD Participation in Seminar	6	15	201	216
Input Distribution Programme	2	42	3	45
Krishi Sanjevani Saptah	1	39	4	43

KVK Unit attachment	2	168	0	168
Lecture Delivered as Resource Person	72	3755	1027	4782
LiFE Programme	1	12	16	28
Live Telecast Programme	2	184	0	184
Mahila Melava	2	1031	22	1053
Monthly District Workshop	1	41	18	59
Newspaper coverage	15	0	0	0
Participation as a committee members	3	35	26	61
Participation in Agricultural exhibition	1	0	0	0
Participation in certificate distribution	1	4	0	4
Participation in FPO National Mega Conclave	1	0	0	0
Participation in Conference	1	0	0	0
Participation in DAESI Exam	1	40	0	40
Participation in HRD Training	1	0	0	0
Participation in Inauguration of ICAR ATARI Building	1	0	0	0
Participation in Meeting	28	295	861	1156
Participation in Krishi Sanjivani Saptah	1	48	5	53
Participation in Nursery Evaluation	3	9	29	38
Participation in Online Meeting	1	0	0	0
Participation in online Screening test	1	52	0	52
Participation in online training	3	0	0	0
Participation in Ran haji Mohstav	1	85	9	94
Participation in Seminar	1	0	671	671
Participation inVikasit Bharat Sankalp Yatra	4	203	55	258
Publication of Literature	3	0	0	0
Radio Talk	18	0	0	0
RAWE Orientation Programme	1	50	0	50
Recipes Competition	3	57	12	69
Research Paper Publication of Article	1	0	0	0
SAC Meeting	1	7	16	23
Shree Aana Programme	1	48	0	48
Technology Week	6	150	2	152
	199	6663	3021	9684
Total	407	14089	3761	17850

Note- Advisory services includes social media, website, telephonic calls etc.

Details of other extension programmes:

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	3
Newspaper coverage	15
Popular articles	4
Radio Talks	18
TV Talks	0
Animal health camps (Number of animals treated)	2
Social Media (No. of platforms Used)	6
Others (pl. specify)	0
Total	48

3.6 Online activities during year 2023

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc.)	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training	Zoom	Training on safety use of glyphosate	3	42
1					
2					
3					
4					
5					
	Total				
В	Farmers scientist's interaction programme				
1					
2					
3					
	Total				
С	Farmers seminars				
1					
2					
3					
	Total				
D	Expert lectures				
1					
2					
3					
4					
	Total				
Е	Any other (Pl. specify)				
1	HRD Training	Zoom	Programme House of Kisan Sarathi	1	84
2			Training on SML Portal	1	66
3	Lecture Delivered as Resource Person	Zoom	Delivered lecture on Kharif crop production technology	1	66
4	Live Telecast	Zoom	Hon'ble PM	1	92

Programme		Live telecast		
		programme of PM Kisan		
		Yojana		
Participation in Screening test	n online Zoom	Screening test of AC & ABC Course	1	52
Total				
Grand Total (A+B+C+D+E	E)			

3.7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	MACS-6222	-	65	227500	For Mahabeej
				0	0	0
				0	0	0
Oilseeds	Groundnut	PhuleDhani (JL-1085)	-	8	96000	25
		PhuleChaitanya (KDG-160)	-	8	96000	25
	Soybean	PhuleDurva (KDS-992)	-	5	60000	15
		PhuleKimaya (KDS-753)	-	8	96000	20
		PhuleSangam (KDS-726)	-	40	480000	75
Pulses	French bean	PhuleRajma	-	0.8	12000	5
Commercial crops				134.8	1067500	165
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Calors						
Total						

Production of planting materials by the KVK

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						

Fruits	Mango	Keshar	282	22600	128
Tuits	Willigo	resitat	202	22000	120
Ornamental plants					
Medicinal and Aromatic					
Plantation					
Spices					
Гuber					
Fodder crop saplings					
Forest Species					
•					
Others					
Total			282	22600	128

Production of Bio-Products

	Name of the bio-product	Quantity		
Bio Products		Kg/Lit	Value (Rs.)	No. of Farmers
Bio Fertilizers	Vermicompost	1247 Kg	12470	455
Bio-pesticide	EPN	105 Kg	41820	122
Bio-fungicide	Trichoderma	52 Kg	9600	63
Bio Agents				
Others				
Total				

Production of livestock materials

	Name of	Name of the	Type of Produce	unit (no./	Quantity	Value (Rs.)	No. of
Particulars of Live stock	the animal	breed		lit/kg)			Farmers
	/ bird /			J 27			
	aquatics						
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Poultry							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet							
Others (Pl.specify)							
Fisheries							
Indian carp							
Exotic carp							
Others (Pl. specify)							
Total							

4. Literature Developed/Published (with full title, author & reference)

A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):

B. Literature developed/published

Item	Citation/ Title	Authors name	Number
Research papers(Give Citation)			
Technical reports			
News letters			
Technical bulletins			
Popular articles			
Extension literature			
Others (Pl. specify)			
TOTAL			

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	No of events (uploaded video/post/story etc.	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel (no of video uploaded)	13	Kvk kalawade, Karad	139
2	Facebook page/ Account (no of	01	Krishi Vigyan Kendra	4922

	Post)		Satara - I	
3	Mobile Apps	0	-	0
4	Whats App groups	35	Crop wise whatsaap	3360
			group	
5	Twitter Account	22	KVK Kalawade	54
6	Any other (Pl. Specify)			

D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

Organic farming to organic product producer farmer.

Situation analysis/Problem statement

Mr. Ravikiran V. Patil, At post- Malkhed, Tal- Karad, Dist- Satara Pin- 415539, Mob. No. 9511237169. Organic farmer his education is MA (Economic) Total 4 farmily members in his family. Father, mother and his sister live together. Total land is 2.5 acre all land is irrigated and used advanced irrigation system (Drip and sprinkler irrigation) from last 30 to 40 years his father produced crop traditionally farming no any advanced technique use in his farm. After his post graduation in MA (Economic) he decided not going to service sector. He decided made his carrier in Agriculture.

Initially his 2.5 acre land comes under irrigation. His own pipeline from river to his land approximate 3 Km pipeline done and all are drip irrigation system. He grow sugarcane intercrop with soybean in Kharif season, sugarcane information with wheat, gram in rabbi season, vegetables like watermelon, cucumber, cauliflower etc. After COVID-19 up and down the market and affect the economic loss. He decided convert his farm modern agriculture to organic farming.

Plan, Implement and Support:

Mr. Ravikiran Patil completed training programme on natural and organic farming at Krishi Vigyan Kendra, Kalawade in the year 2021. After that he visited KVK frequently and linked with KVK experts. He realized that organic farming system is always good for human and environment. Organically produced food grains and vegetables have good demand in market, fetching high value in terms of money and also participated various training and extension programme of state agriculture department, read different books on organic farming, also taken training on Vermicompost production. He started sugarcane production by organic method. Total 2.5 acre adsali sugarcane planted organically all modern technology used while planting row to row distance is 4.5 feet and fertilizer management by oranic dung slury in cow dung slury addition of 10 Kg cow dung + 5 liter cow urine, gram floor and jowar floor 1 Kg + curd 1 Kg + soil 1 Kg + 200 liter water used this all for 1 acre land for drip irrigation or flood irrigation control.

1. Organic crop and its processed product

		Income		
Sr.No.	Crop/ enterprises	Production	Rate	Total Amt.
01	Sugarcane	80 Ton	3000/ Ton	2,40,000/-
02	Organic jaggery	5000 Kg	110/ Kg	5,50,000/-
03	Organic jaggery powder	2000 Kg	140/ Kg	2,80,000/-
	Bakery product			
04	Jaggery cream roll	208 Kg	240/ Kg	50,000/-
05	Jaggery toast	250 Kg	200/ Kg	50,000/-
06	Jaggery rots	125 Kg	400/ Kg	50,000/-
07	Jaggery pedha	83 Kg	600/ Kg	50,000/-
			Total Income	9,90,000/-
		Expenditure	<u> </u> 	
Sr.No.	Crop/ enterprises	Production	Rate	Total Amt
01	Sugarcane	80 Ton	25000/ Ton	62,500/-
02	Organic jaggery	5 Ton	20000/ Ton	1,00,000/-
03	Organic jaggery	2 Ton	18000/ Ton	36,000/-
	powder			
	Bakery product			
04	-	208 Kg	85/ Kg	17,500/-
04	Bakery product	208 Kg 250 Kg	85/ Kg 70/ Kg	17,500/- 17,500/-
	Bakery product Jaggery cream roll	_	_	
05	Bakery product Jaggery cream roll Jaggery toast	250 Kg	70/ Kg	17,500/-

Total Gross Income is of Rs.9,90,000/-Total Expenditure is of Rs. 2,68,500/-Total Net profit is of Rs. 7,21,500/-

Outcome:

Mr. Ravikiran Patil spread his technology through various extension programme. He delivered information to other farmer in his organic shop at village Malkhed. KVK, Kalawade arranged the visit of organic farmers trainee to his organic shop and he delivered information about organic production in various agriculture extension programme conducted by State Agriculture Department and other institute.





Production of Organic Ayurvedic Jaggery



Production of Organic Ayurvedic Jaggery candy



Desi goat production unit at farm



Production of sugarcane seedling at his own farm

E. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

A. TECHNOLOGY TRANSFER CLUB (TCC):

Krishi Vigyan Kendra established technology transfer club in jurisdiction of operational area of selected village. Through these clubs KVK scientists and officials of club (farmers) identify and find out the problems of villagers related to agriculture, social & economic point of view. After finding out these problems suitable solutions are evolved & implemented to solve these problems through mutual understanding of KVK and Club.

Through these TTC, KVK effectively implemented various KVK programmes like FLD, OFT, Training Programme, Farmers rallies etc.

Created Four Whats App group for Sugarcane, Groundnut, Sheep & Goat, Rural Poultry, Farmers Friends for sharing of experiences of the farmers and effective farmers scientists interaction.

B. MINI-ATIC CENTRE:

KVK has established Mini-ATIC Centre for giving information to farming community as well as visiting dignitaries in which Photographs of Pests, Diseases & Nutrition Deficiencies, IPM Kits and different Specimens & Models are demonstrated. In its publications segment the KVK has published the Rabi crop production Diaries, Vermicompost Diaries, Folders on Vegetable plant protections, Fruit crop growing, Sericulture, Booklet on Banana Production technology, Kharif and Rabi crop production Technique, Goat farming etc., and CD on Vermicompost to enrich the knowledge of farmers who are indulged in respective fields.

C. DEMONSTRATIVE UNITS

Considering "Seeing Is Believing", Krishi Vigyan Kendra has established its own 23 Demonstrative Units on his farm for conducting the various trainings and other activities. The demonstration units are Loose housing cow barn, Crop plots of Groundnut, Jawar, Sugarcane, Soybean etc, Crop museum (Different crop variety), Horticulture crop orchard (Aonla, Pomegranate, Mango, Coconut), High Density mango plantation, Vermicompost & Vermiwash project, Mulberry plantation, Mushroom production unit, Azolla production unit, ICRISAT groundnut production technology, Agriculture based implement exhibition, Zero energy cool chamber unit, Nursery, Briquette production unit, Goat rearing unit, Silage

preparation, Honey Bee Keeping unit, Farm pond, Apiculture unit, Hydroponic Unit, Green House Unit, Old Agricultural implements exhibition and Micro irrigation (Drip & Sprinkler) unit.

F. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / ente	rprise ITK Practiced	Purpose of ITK
A	Agronomical crops		
1	Paddy	Rope dragging and moving to and fro in standing crop	Control of caterpillar
2	Gram	Mixing Jowar or maize seed with Gram while sowing	Bird perch for Helicoverpa armigera management
3	General crops	Spraying of insecticides at evening 2-3 days after Amawasha	Control of nocturnal caterpillar
4	Cereals	Waste cassette reeling	To minimizes the losses of grain at maturity from birds
В	Horticultural crops		
1	Pea	Criss-cross sowing	To avoid lodging by anchoraging in pea
2	Chilli	Spraying the crop with Raw milk 1 cup + Admire 2 gm + Zinc sulphate 15 gm + Steam rich 15 ml per 15 lit pump	For management of Leaf curl of chilli
3	Ginger	Treat the Ginger seed with dung to improve seed germination and to avoide rhizome rot.	To improve seed germination and to avoide rhizome rot.
С	Pest	•	
1	Rat	Take 5 lit empty plastic can. Cut it at mouth. Burry it at ground level. Apply groundnut oil and some groundnut pieces inside neck. Pour water half of can.	To catch the rats.
		Use of Glyricidia flowers to keep away the rats	Keep away the rats
2	Stored Grains	Use of Wekhand rhizome powder 2% of grain weight and keeping it in container of stored grains for preventing stored grain pests	Preventing stored grain pests
		Mixing of common salt in grains @ 250 gm for 5 kg grains.	Preventing stored grain pests

5.1. Indicate the specific training need analysis tools/methodology followed for

A. Practicing Farmers

PRA Survey

- B. Rural Youth
- a) Field Survey and Agro Ecosystem Analysis
- b) Observation and group discussion with Rural Youth
- C. In-service personnel
- a) Meeting with Government Institute
- b) Feedback from Agriculture department & Development Organizations
- D. Other
- a) Feedback from Ex-Trainees
- b) Pre and post training evaluation

5.2. Indicate the methodology for identifying OFTs/FLDs

 $PRA-PRA\ was\ conducted\ in\ Mundhe,\ Rethare\ kh,\ Nigadi,\ Surupkhanwadi\ and\ Vihe.\ In\ PRA\ identified$ thrust area like improving productivity of Sugarcane , Soybean, Potato , Pea, Rabbi jowar, Paddy, Gram, Wheat, Groundnut & livestock & Poultry management, empowerment of youth & women . From PRA yield gap analysis was done & accordingly thrust areas the OFTs are finalized

Field level observations – During transit walkobserved the field condition and accordinglyfinalized OFTs

Farmer group discussions -

During village adoption conducted Group discussion in which yield gaps were found and need based technology interventions were finalized.

For FLD:

New variety/technology - Varitial evaluction of groundnut –, JL - 286, JL - 501, KDG - 128 & Phule Bharti in case of soybean, KDS - 344, KDS - 726, in case of wheat Phule Trimbik & Phule Samadhan were evaluated in gram Vijay & Digvijay in Black Gram AKU - 15 & TAU - 1 were demonstration in case of poultry birds Giriraja Black rock were demonstrated Poor yield at farmers level – Poor yield due to improper nutrient management, improper crop management, improper pest and disease management due to this reason and poor drainage & poor soil health the yields of farmers were poor.

Existing cropping system - Lack of Broad bed furrow & Broad raised bed and lack of planting distance the yields were low according to survey and discussion with farmers proper FLDs were demonstrated

5.3. Field activities

- i. Name of villages identified/adopted with block name-
- 1 Bhairewadi, Tal Patan 2019 -20
- 2. Mundhe Tal Karad, 2019 -20
- 3. Retahre Kh Tal Karad 2017 -18
- 4. Jaigaon, Tal Koregaon, 2019 -20
- 5. Kumthe Nagache Tal Khatav 2018 -19
- ii. No. of farm families selected per village: 50
- iii. No. of survey/PRA conducted:05
- iv. No. of technologies taken to the adopted villages -

Bhariewadii -4,

Nigadi - 07,

Kumathe-04

Vihe- 12,

Surupkhanwadi – 8

Mundhe - 4

Nalawadewadi – 4 (Not adopted)

Wathar 02 (Not adopted)

Rethre Bk 2 (Not adopted)

Kapil 01 (Not adopted)

v. Name of the technologies found suitable by the farmers of the adopted villages:

Use of briquettes in Paddy, Useof STCR doses in onion, BBF for Groundnut, Zero

tillage for ratoon management, Rearing of Black Rock birds, Gram IPM, White grub management by castor fermenter technique. Growing of Phule Gunavant grass.

All technologies related to IPDM.

vi. Impact (production, income, employment, area/technological-horizontal/vertical)-

Use of briquettes in Paddy, Use of STCR doses in onion, BBF for Groundnut, Zero tillage for ratoon management, Rearing of Black Rock birds, Growing of Phule Gunavant grassIPM in all crops. These are the trials for horizontal spread.

A. Practicing Farmers a) b) c) B. Rural Youth a) b) c) d) C. In-service personnel a) b) c)

5.2. Indicate the methodology for identifying OFTs/FLDs For OFT:

- i) PRA
- ii) Problem identified from Matrix

- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any

5.3. Field activities

- i. Name of villages identified/adopted with block name (from which year) -
- ii. No. of farm families selected per village:
- iii. No. of survey/PRA conducted:
- iv. No. of technologies taken to the adopted villages
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
M.P.K.V., Rahuri	Participation in ZREAC meetings, Source of technical
	information & Conducting training programmes, and
	extension activities
Agriculture Research Centers	Participation in meetings & Source of technical
	information
State Agricultural Department	Joint implementation of extension activities, Participation
	in meetings & Conducting training programmes
State Veterinary Department	Joint implementation, Participation in meetings &
	Conducting training programmes
Regional Agricultural Extension Centre	Participation in meetings, Extension activities
Zillah Parishad, Panchayat Samiti and Gram panchayats	Joint implementation, Participation in meetings,
	conducting training programmes and other extension
	activities.
MAHABEEJ	Seed production
Agriculture College, Karad	Conducting Extension activities
Regional Agriculture Management Extension & Training	Joint implementation, Participation in meetings, &
Institute, Kolhapur (RAMETI)	Conducting training programme
ATMA, Satara	Participation in meetings, conducting training
	programmes. Planning, Survey etc.
District Rural Development Authority	Conducting training programmes for Rural youths under
	SGSY schemes.
Satara District Co. op. Bank	Group Discussion & meetings of Farmer's Clubs.
NABARAD	Participation in pre Kharif and pre rabi meetings,
	Formation of TTC.
Central Poultry Development Organization (WR)	Joint implementation, Participation & Conducting
Mumbai	training programmes Supply of Giriraja chicks
Akashwani, Satara	Recording & broadcasting of agricultural programmes
	and farmers success stories
Doordarshan, Pune	Recording & broadcasting of agricultural programmes
	and farmers success stories
Zuari Agro. Ltd	Farmer's ralley and training programmes
Balasaheb Desai College Patan	Soil health campaigning
Y M Krishna Agriculture Collage Rethare	Organising joint farmers meeting and mela's as a part of
· ·	RAWE activities of RAWE students
Mokashi Agriculture Collage RajmachiKarad	Organising joint farmers meeting and mela's as a part of
	RAWE activities of RAWE students

B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency(State Govt./Other Agencies)	Amount (Rs.)

C. Details of linkage with ATMA

a) Is ATMA implemented in your district

Yes

If yes, role of KVK in preparation of SREP of the district?

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	No of Farmers attending
01	Meetings	MDW	5		245
02	Research projects				
03	Training programmes	Training Programme	1	1	26
04	Demonstrations				
05	Extension Programmes				
	KisanMela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
	Lecture Delivered as Resource Person	Lecture Delivered as Resource Person	4	4	652
06	Publications				
	Video Films				
	Books				
	Book chapter				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				

07	Other Activities				
	(Pl.specify) Watershed approach	ch			
	Integrated Farm				
	Development				
	Agri-preneurs				
	development				
D. Give	e details of progra	ammes implemented u	nder National Horticu	ultural Mission	
S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
E. Nati	ure of linkage wit	h National Fisheries D	evelonment Roard		
S. No.	Programme Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
F. Det	ails of linkage wit	h RKVY			
S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
G. Det	tails of linkage wit	th PKVY (Parampara	gat Krishi Vikas Yoia	nna)	
S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
H. Det	tails of linkage wit	th NFSM			
S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
I. Deta	ails of linkage with	n SMAF (Sub-mission	on Agroforestry)		
		·	Funds received if	Expenditure during the reporting period	Remarks
S. No.	Programme	Nature of linkage	any Rs.	in Rs.	Kemarks

8. Innovative Farmers Meet

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	Yes/ No
	Brief report in this regard	

9. Farmers Field School (FFS)

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Expenditure	Brief report

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

- After implementation of BBF for summer groundnut, farmers were surprised to see the results on BBF for groundnut, yield of groundnut recorded highest over drilled groundnut.
- After implementation of Zero tillage sugarcane ratoon management, farmers were surprised to see the results on Zero tillage sugarcane ratoon management, yield of Zero tillage sugarcane ratoon management is more conventional ratoon management.
- Technology demonstrated shown superior results over Farmers practice. Method need to be followed very correctly as demonstrated, There was increase in yield due to management of the wilt disease with minimum cost. Farmers also get aware of low cost technology for diseases management. Availability of quality biological control agent in time need to be planned well in advance.
- Management of thrips in onion was achieved by spraying single insecticide 3 4 times. To break the resistance in the pest for same insecticide (Neonicotinide) 10000 ppm Neem extract was used @ 1 ml per liter in the recommended spray (recommendation by AAU Anand)
- The method was very easy mean of sucking pest and borer control by only seed treatment of Thimethoxom 30 % FS. As formulation is semiliquid it is to be properly diluted and used as demonstrated.
- Decomposition time of trash has reduced significantly. Faremrs were hesitating to keep trash because of the same problem.
- As this area is under heavy rainfall and to avoid leaching losses of nutrients the nutrients should be given in form of briquette. Briquettes application to be done at appropriate time and planning.
- Farmers apply fertilizers injudiciously to achieve more yields and at any stage. But after receiving STCR doses they got actual dose of fertilizer and time of fertilizer application. STCR dose of fertilizer should be calculated by using recommended equations and if the quantity of potash is higher, conside as medium.
- Spraying of 19:19:19 can be replaced by using DAP and the accurate stage of spraying should be achieved i.e. 55 and 70 DAS. The spray can increase quality, quantity and weight of each grain.
- Spraying of Potassium Nitrate 2 % at the acute stage of 50% flowering and at grain filling stage should be achieved. This will help in increase in pods and filling of pods.
- Phule gunwant has potential to produce higher quality of green fodder from less cost of cultivation.
 This reduces cost of cultivation as compare to seasonal fodder crops so the farmers increase their
 area under this variety. The horizontal spread of this grass were happened due to massive extension
 activities and input service.
- Black australops are duel purpose chicks, they are good layers and also suitable for meat production as compare to local chicks.

10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

11. Technology Week celebration during 2023: Yes, If Yes

Period of observing Technology Week: From to 10/10/2023 to 16/10/2023

Offline:

Total number of farmers visited :154 Total number of agencies involved : 02

Number of demonstrations visited by the farmers within KVK campus: 154

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized	8	154	Crop Production, IPM ,INM, ICM, Food Processing
Exhibition			
Film show	1	149	Rural Entrepreneurship
Fair			
Farm Visit	1	152	
Diagnostic Practical's	2	150	
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)	12		Decomposing Culture
Bio Fertilizers (q)	11		Azolla
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the			
technology week	1	158	

12. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No. of farmers
Total			

E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

	State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of
		conservation technologies introduced		farmers
Γ	Total			

G. Awareness campaign

State	Meetings		Gosthies	S	Field	days	Farmers fair Exhibition		1	Film show		
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Total												

13. IMPACT

A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific	No. of	% of adoption	Change in income (Rs.)		
technology/skill transferred	participants		Before	After	
			(Rs./Unit)	(Rs./Unit)	

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

- B. Cases of large scale adoption (Please furnish detailed information for each case)
- ➤ <u>JL 286 Groundnut Variety:</u> For popularizing JL-286 (Phule Unnap) Variety of groundnut KVK has undertaken trainings and varietal demonstrations & supplied seed of JL-286 (Phule Unnap) Variety for the farmers from whole district. So far KVK has supplied 16 Quintals of seed of JL-286 Variety to 26 farmers from 15 villages and covered 3 tahsil of Satara district.
- ➤ Phule Samadhan Wheat Variety: For popularizing Phule Samadhan variety of Wheat KVK has undertaken trainings and varietal demonstrations and arranged seed production programme along with MAHABEEJ on farmers field and host organizations farm & also supplied seed directly to the farmers of Satara & adjoining districts. Through participatory seed production on farmer's field in collaboration with state seed corporation kvk has producing more than six hundred quintals of seed of Phule Samadhan variety per year.
- ▶ <u>Use of U- DAP and NPK Briquettes:</u> KVK has undertaking demonstration on Use of U- DAP briquettes in rice from last 6 years and On farm testing trial on Use of NPK briquettes for sugarcane from last two years. Also through trainings and extension activities KVK has popularized use of U-DAP and NPK briquettes. KVK producing U-DAP and NPK briquettes from last five years and supplying it to farmers from Satara, Sangli and Kolhapur districts. Up to March 2022 KVK has supplied **6844 Kg U-DAP briquettes to 612 number of farmers and 5873 Kg NPK briquettes to 542 numbers of farmers.**
 - C. Details of impact analysis of KVK activities carried out during the reporting period
 - 14. Kisan Mobile Advisory Services

		SMS was sent	SMS sent
Jan 2023	3	62574	
Feb 2023	1	23342	
March 2023	1	23545	
April 2023	2	29668	
May 2023	1	28432	
Jun 2023	1	20855	
Jul 2023	1	20855	
Aug 2023	1	20779	
Sept 2023	1	20452	
Oct 2023	1	28266	
Nov. 2023	1	23312	
Dec. 2023	1	20858	

N. 0	Message Type	Type of Messages							
Name of KVK		Crop	Livestock	Weather	Marke- ting	Aware- ness	Other enterprise	Total	
	Text only	0				3	0	15	
	Voice only								
	Voice & Text both								
	Total Messages	12				3	0	15	
	Total farmers Benefitted	250502				72436		322938	

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm)

				Details of production				unt (Rs.)	
Sl. No	Demo Unit Year of establishmen a (ha) Variety Property		Produce	Qty.	Cost of input s	Gross income	Rema rks		
1	Vermicompos	2016	0.	Udrilis	Vermicompost	1200	65	12000	
	t		05	Ujini		Kg	00		
2	Azolla Unit	2016	0.	Azolla	Azolla	240	90	36000	
			01	Pinata		Kg	00		
3	Decomposting	2017	0.	Gaziyaa	Decomposting	300	12	3000	
	Culture		01	d	Culture	Lit	00		
				Culture					

B. Performance of instructional farm (Crops) including seed production

Name Date of Date of		g c	Details	of production	Amount (Rs.)				
of the crop	sowing	harvest	Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Wheat				MACS- 6222		65 Q		227500	
Oilseeds									
Groundnut				Phule Dhani (JL- 1085)		8 Q		96000	
Groundnut				Phule Chaitanya (KDG-160)		8 Q		96000	
				PhuleDurva		5 Q		60000	

		(KDS-992)			
		PhuleKimaya (KDS-753)	8 Q	96000	
		PhuleSangam (KDS-726)	40 Q	480000	
Fibers					
Spices & Plant	tation crops				
Floriculture					
Fruits					
Vegetables					
Others (specify	 y)				
French		PhuleRajma	0.8	12000	
bean			Q		

C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

Sl.	Bio Products	Name of the	04 (1 /14)	Amou	nt (Rs.)	Domonlya
No.		Product	Qty (kg/lit)	Cost of inputs	Gross income	Remarks
1.	Bio- Fertilizers					
2.	Bio- Fungicides					
3.	Bio- pesticides					
4.	Bio-Agents					

D. Performance of instructional farm (livestock and fisheries production)

	Name	Deta	ils of production		Amou	nt (Rs.)	
Sl. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2023	2	2	
February 2023	3	2	
March 2023	12	25	
April 2023	0	0	
May 2023	4	4	
June 2023	6	4	
July 2023	0	0	
August 2023	0	0	
September 2023	4	2	
October 2023	2	2	
November 2023	8	4	
December 2023	6	2	

F. Database management

Dittibuse tiliget Dutubuse cicuted	S. No	Database target	Database created
------------------------------------	-------	-----------------	------------------

G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.		Activities conducted				Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		

H. Performance of Nutritional Garden at KVK farm If Nutritional Garden developed at KVK farm/Village Level? Yes/No If yes,

Nutritional Garden developed at KVK farm

T TEPET TOTAL OF SET GEOTIE	20 / 010 000 000 11 / 11 1001 111		
Area under nutritional	Component of Nutritional	No. of species / plants in	No. of farmers visited
garden (ha)	Garden	nutritional garden	
	Vegetable crops	14	220
	Fruit crops		
	Others if any		

Nutritional Garden developed at Village Level (Area under nutritional garden)

No. of Villages	Component of Nutritional	No. of species / plants in	No. of farmers covered
covered	Garden	nutritional garden	
	Vegetable crops	11	25
	Fruit crops		
	Others if any		

H. Details of Skill Development Trainings organized

	Name of	N	D4']	No. of pa	articipants		
S.No.	KVKs/SAUs/ICAR	Name of QP/Job role	Duration (hrs)	SC	Cs/STs	О	thers	T	otal
	Institutes	Q1/30b Tole	(111.5)	Male	Female	Male	Female	Male	Female

17. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the	Location	Branch	Account Name	Account	IFSC
	bank		code		Number	Number
With Host Institute	IDBI Bank	Karad	470	Kalyani Gorakshan	47010010004999	IBKL0000470
				Trust Account KVK		
				Revolving Fund		
With KVK	IDBI Bank	Karad	470	Kalyani Gorakshan	47010010005000	IBKL0000470
				Trust Account KVK		
				Revolving Fund		

B. Utilization of KVK funds during the year 2023-24 (Rs. in lakh) (Till Dec, 2023)

S.	Particulars	Sanctioned	Released	Expenditure	l
----	--------------------	------------	----------	-------------	---

No.				
A. Rec	urring Contingencies			
1	Pay & Allowances	7915000	7915000	7186103
2	Traveling allowances	200000	200000	122986
3	Contingen	cies		
\boldsymbol{A}	Stationery, telephone, postage and other expenditure on office			
	running, publication of Newsletter and library maintenance			
	(Purchase of News Paper & Magazines)	100000	100000	66877
В	POL, repair of vehicles, tractor and Equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee			
	be maintained)	150000	150000	34880
D	Training material (posters, charts, demonstration material			
	including chemicals etc. required for conducting the training)	100000	100000	
E	Frontline demonstration except oilseeds and pulses (minimum			
	of 30 demonstration in a year)	300000	300000	96866
F	On farm testing (on need based, location specific and newly			
	generated information in the major production systems of the			
	area)	300000	300000	62393
G	Training of extension functionaries	50000	50000	
H	Maintenance of buildings	0	0	
I	Establishment of Soil, Plant & Water Testing Laboratory	0	0	
J	Library	0	0	
	TOTAL (A)		9115000	9115000
B. Non	-Recurring Contingencies			
1	Works	0	0	0
2	Equipments including SWTL & Furniture	0	0	0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0	0	0
4	Library (Purchase of assets like books & journals)	0	0	0
TOTA	\ /		0	0
C. RE	VOLVING FUND		0	0
GRAN	TD TOTAL (A+B+C)		9115000	9115000

Status of revolving fund (Rs. in lakh) for the Four years $% \left(1\right) =\left(1\right) \left(

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2018 to March 2019	2327193.47	3734488	1262684	4798997.47
April 2019 to March 2020	4798997.47	5148520.37	5021675.74	4,925,842.10
April 2020 to March 2021	4925842.10	672600.50	3728956.49	1869486.11
April 2021 to March, 2022	1869486.11	446998.00	1986726.00	329758.11
April 2022 to March 2023	329758.11	699963.00	1071449.96	-41728.85
April 2023 to March 2024	-41728.85	1197725.00	1278851.00	-122854.85

17. Details of HRD activities attended by KVK staff during year

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offlin e)	Dates	
-------------------	-------------	---------------------------------	--------------------------	------------------------------	-------	--

Dr. Dilip		Natural and organic			
Ghongade		farming and production	Natural &	Offiline	
		of biofertilizer	Organic		9/10/2023
	SMS – Plant Protection		Farming		to
			Research		
			Center,		16/10/2023
			Gaziyzbad		

18. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs

Name of the village	Total No. of families	Key interventions	No. of farmers covered in each	Change in inc	come (Rs/unit)
	surveyed implemented		intervention	Before (base year)	After (current year)
Rethare Kh	864	Demonstration of Seed treatment, JL -286, KDS- 726 Off campus training programme Soil and water testing Establishment of IFS Model		150000	250000
Kumthe Nagache	474	IFS Model		200000	325000

19. Details of activities planned under NARI /PKVY / TSP / KKA, etc.

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered

20. Details of Progress of ARYA Project

Name of Enterprise	No of Training Conducted No of Beneficiario		110 01	No of Unit established	Change in income		No. Of
		Extension	Extension Activities		Before	After	Groups Formed

21. Details of SAP

N	S. No.	Types of major Activity conducted- Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.	 No. of Participants

Sr. No	Name of KVK	Date	Activity	No of VIPs	No of Farmers	Others	Total

21. Books published 2023-24

Title of the Book	Authors	ISBN No	Publisher	Pages No	Description/review of the book (one paragraph/sentence)

22.. Please include any other important and relevant information which has not been reflected above (write in detail).

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	85	2065	811	2876
Rural youths	08	321	242	563
Extension functionaries	07	374	39	413
Sponsored Training	01	54	6	60
Vocational Training	02	2	42	44
Total	103	2816	1140	3956

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	13	5.00	13
Pulses	12	5.00	12
Cereals	52	15.05	52
Vegetables	14	5.0	14
Other crops	77	30.00	77
Hybrid crops	0	0	0
Total	168	60.05	168
Livestock & Fisheries	0	0	0
Other enterprises	36	_	36
Total	36	0	36
Grand Total	204	60.05	204

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	10	82	82
Livestock	0	0	0
Various enterprises	01	10	10
Total	11	92	92
Technology Refined			
Crops	0	0	0
Livestock	0	0	0
Various enterprises	0	0	0
Total	0	0	0
Grand Total	11	92	92

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	208	8166
Other extension activities	199	9684
T	tal 407	17850

5. Mobile Advisory Services

	Message Type	Type of Messages							
Name of KVK		Crop	Livesto ck	Weather	Marke -ting	Awar e-ness	Other enterpris e	Total	
	Text only	12				3	0	15	
	Voice only								
	Voice & Text both								
	Total Messages	12				3	0	15	
	Total farmers Benefitted	250502				72436		322938	

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	134.8 Qtl	1067500
Planting material (No.)		
Bio-Products (kg)	140 Qtl	63890
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	185	37000
Water	99	19800
Plant	00	00
Total	284	56800

8. HRD and Publications

Sr. No.	Category	Number
1	Abstract	0
2	Workshops	3
3	Conferences	1
4	Meetings	28
5	Trainings for KVK officials	3
6	Visits of KVK officials	9
7	Book published	0
8	Training Manual	0
9	Book chapters	2
10	Booklet	1
11	Leaflets/ Folder/ Pamphlet	4
12	Research papers	2
13	Technical Bulletin	1
14	Popular article	4
15	Lead papers	0
16	Seminar papers	1
17	Extension folder	2
18	Proceedings	2
19	Award & recognition	0
20	On-going research projects	0
21	Other	0