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)
	Office	FAX		
ICAR-Shri Siddhagiri, Krishi Vigyan Kendra, Kaneri, Tal. Karveer, Dist. Kolhapur- 416234	0231-2950401	-	kvkkolhapur02@gmail.com kvk.kolhapur2@icar.gov.in	https://kvkkolhapur2.icar.gov.in (15569)

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

Address	Telephone		E mail	Website address
	Office	FAX		
Shri Kshetra Siddhagiri Mahasansthan, Kaneri Math At post: Kaneri, Taluka: Karveer, Dist: Kolhapur 416234 (Maharashtra)	0231-2671059 0231-2684100	-	siddhagirimath@gmail.com	www.siddhagirimath.org

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Ravindra Singh	0231-2950401	7906314421	ravindrasingh94125@gmail.com

1.4. Date and Year of sanction: 15th March, 2018

1.5. Staff Position (as on December, 2023)

					If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
Sl. No.	**Sanctioned post**	**Name of the incumbent**	**Mobile No.**	**Discipline**	**Current Pay Band**	**Current Grade Pay**	**Date of joining**	
1.	Senior Scientist and Head	Dr. Ravindra Singh	7906314421	Agricultural Extension	37400-67000	Rs.9000	17-12-2018	--
2.	Subject Matter Specialist	Mr. Pandurang A. Kale	7350844101	Agronomy	15600-39100	Rs.5400	26-12-2018	--
3.	Subject Matter Specialist	Mr. Rajendra S. Waware	9730267038	Soil Science	15600-39100	Rs.5400	01-01-2019	--
4.	Subject Matter Specialist	Ms. Pratibha B. Thombare	9763666814	Home Science	15600-39100	Rs.5400	04-01-2019	--
5.	Subject Matter Specialist	Dr. Parag D. Turkhade	9545491147	Plant Protection	15600-39100	Rs.5400	17-01-2019	--
6.	Subject Matter Specialist	Mr. Sunil Kumar	8510900511	Agril. Extension	15600-39100	Rs.5400	21-01-2019	--
7.	Subject Matter Specialist	Dr. Pushpanath Chougale	8625058618	Animal Science	15600-39100	Rs.5400	01-11-2022	--
8.	Programme Assistant	Mr. Vishvambhar H. Jadhav	9545373455	GPP	9300-34800	Rs.4200	01-11-2019	--
9.	Computer Programmer	Mr. Vitthal C. Muthal	8830302343	Computer Science	9300-34800	Rs.4200	02-11-2019	--
10.	Farm Manager	Mr. Somnath D. Gadade	9975048883	M. Sc.	9300-34800	Rs.4200	25-11-2019	--
11.	Accountant/Superintendent	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
12.	Stenographer	Mr. Vinayak D. Vanjari	8482939077	B.A.	5200-20200	Rs.2400	01-11-2019	--
13.	Driver 1	Mr. Bramhanand J. Khade	9404266497	H.S.C.	5200-20200	Rs.2000	01-11-2019	--
14.	Driver 2	Mr. Omkar R. Patil	9922095658	H.S.C.	5200-20200	Rs.2000	01-11-2019	
15.	Supporting staff 1	Mr. Rohit N. Naik	9075693410	H.S.C.	5200-20200	Rs.1800	01-11-2019	--
16.	Supporting staff 2	Mr. Shubham H. Shinde	8380945537	H.S.C.	5200-20200	Rs.1800	01-11-2019	--

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	855 (Sq/meter)
2.	Under Demonstration Units	00.40
3.	Under Crops	17.31
4.	Horticulture	06.80
5.	Pond	-
6.	Others if any (Specify)	00.59

1.7. Infrastructural Development:
A) Buildings

S. No.	Name of building	Source of Funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	-	-	-	2019	550	Work In progress
2.	Farmers Hostel	ICAR		-		2018	305	Work In progress
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	ICT lab	-	-	-	-	-	-	-
10	Solar Panel	-	-	-	-	-	-	-
11	Other	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
L.M.V. (Mahindra Bolero-SLE)	2019	793599		Working
Tractor Kubota MAU 4501 (45 H.P.)	2020	626000		Working

C) Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Dell Computer System (07)	2020	245940	Working
Canon Printer (01)	2020	17500	Working
iBall UPS (07)	2020	10382	Working
Dell Laptop (01)	2020	25678	Working
Balram (Farm Implement)	2020	24000	Working

1.8. Details of SAC meeting conducted in the year: 2023

Date	Name and Designation of Participants	Salient Recommendations	Action taken
2nd March, 2023	1) Hon'ble P.P. Adrushya Kadsiddheshwar Swamiji, Chairman Shri Siddhagiri KVK, Kaneri, Kolhapur. 2) Dr. R.R. Suryavanshi, Associate Dean, College of Agriculture, Kolhapur 3) Mr. Ashutosh V. Jadhav (AGM-DD NABARD, Kolhapur) 4) Mr. Bhimashankar L. Patil (Agril. Development Officer, Z.P. Kolhapur) 5) Mr. Ganesh P. Shinde (Lead District Manager, Kolhapur) 6) Shri Uttam Kadam, ARS, Gadhinlaj 7) Dr. Yogesh Ban, Incharge, Small millets research, Shenda park, Kolhapur 8) Miss. Teja P. Durve (Transmission on Exc. Akashwani, Kolhapur) 9) Mr. Bandopant Sankpal, (Progressive Farmer) 10) Mr. Shivanand Ghabade, (Progressive Farmer) 11) Mr. Adinath Kinikar, (Progressive Farmer) 12) Mr. Vishal Parvate, (Progressive Farmer) 13) Mr. Balu Bodake (Progressive Farmer) 14) Mr. Kalgonda Tele (Progressive Farmer) 15) Mr. Sarveshwar Chatre-Patil (Progressive Farmer) 16) Mr. Dattatreya Magdum (Progressive Farmer) 17) Mrs. Rupali Magdum (Progressive Woman Farmer) 18) Mrs. Vandana Nachite (Progressive Woman Farmer)	1. **P.P. Adrushya KadSiddheshwar Swamiji, Chairman, KVK, Kaneri, Kolhapur** stresses on developing plan of action in convergence with various line departments, developing entrepreneurial units under vermicompost, NADEP etc. Swamiji focused on development of organic farming cluster of 1000 acres and developed value addition based marketing channels for these farmers under the cluster to sustain their farming. Swamiji focuses on developing Atamnirbhar Villages for self-sufficiency. An effort to implement the plastic free village for engaging rural youth for income generation should be taken on priority. Use of agricultural drone for more coverage of farm with less labour. Swamiji suggested being in line to develop the millet parks for creating awareness among farmers and general users and concerning the human health, area based nutritional garden should be developed. A more desi seed banks should also be developed and encourage the farmers to use desi seeds. 2. **Dr. R.R. Suryavanshi, Associate Dean, College of Agriculture, Kolhapur** suggested to train the farmers on flower farming, utilization of barren land, tree farming for income generation, training based on growing exotic vegetables of export potential and increase the area under bamboo cultivation. 3. **Shri Ashutosh Jadhav, AGM, NABARD**, pointed out to develop the entrepreneurs from trained individuals of ACABC schemes, implementation of sugarcane trash management machineries. A specialized marketing channel should be developed for mushroom growers. 4. **Shri Ganesh Godase, LDM, Bank of India**, focuses on campaign for financial literary. 5. **Shri Bhimashankar Patil, Agriculture Officer, Zila Parishad, Kolhapur** talked about schemes implemented by Zila parished for promotion of organic farming. 6. **Shri Uttam Kadam, ARS, Gadhinlaj** stresses on adoption of new variety of sugarcane 15012. 7. **Dr. Yogesh Ban, Incharge, Small millets research, Shenda park, Kolhapur** stresses on development of village wise millets demonstration plot, trainings in association with KVK and promotional activities for millets. 8. **Miss. Teja Madam, Akashwani** focuses on forming new subject wise jingles and specialized programs for income generation program for rural youth. 9. **Various farmers and farm women representatives** actively participated in the meeting and given their suggestions as follows: • White grub management through organic amendments • More campaign on vermicomposting and other organic inputs • Help from banks for establishing new units • More production of millet based products etc.	Action taken as per the suggestions given by committee members

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. No	Farming system/enterprise
1	Sugarcane based farming system
2	Paddy/Sugarcane farming system
3	Paddy based farming system
4	Soybean/Jowar/Gram farming system
5	Buffalo-Cattle dairy enterprise
6	Paddy/Wheat/Vegetable farming system

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

a) Soil type

S. No.	Agro-climatic Zone	Characteristics
1	Western Zone	This zone receives heavy rain fall, is covered with laterite soils. It is mainly found in Karveer, Ajara, Bhudargad, talukas. It has the altitude of 600 to 900 meters above sea level. It is having laterite soil drained and shallow having the phospheric and acidic quality. The crops such as vari, nachani, sava, rala etc. are grown in this zone.
2	Central Zone	This zone with more or less assured rainfall is covered with fertile, well-drained, brownish medium black soils of natural reaction. It is found in Karveer, Bhudargad and Ajara talukas. It has attitude of 500 to 600 meters above sea level. In this zone the crops like paddy, jawar, and groundnut are cultivated during kharif season and sugarcane and vegetables are grown where the irrigation water is available.
3	Eastern Zone	The dry eastern zone with precarious rainfall is covered with medium to deep black fertile soils of varying depths. This zone consists of Gandhinglaj, Kagal, Karveer talukas. In this zone the crops like jawar, and groundnut are cultivated on a large scale as well as the crops like paddy, sugarcane and vegetables are grown with the help of irrigation water

b)Topography

S. No.	Agro ecological situation	Characteristics
1	Ghat Zone (Taluka: Chandgad)	Heavy rainfall, Shallow light to medium red, black and laterite hilly soils Crops: Paddy, Finger millet, Sugarcane, Groundnut and Vegetables Rainfall: 5000 mm
2	Sub mountain zone (Taluka: Karveer, Kagal, Gadhinglaj, Ajara, Bhudargad)	Medium to heavy rainfall, shallow black, red soils Crops: Sugarcane, Groundnut, Sorghum, Cashewnut, Vegetables Rainfall: 750-1500 mm

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Laterite soils	Acidic, EC less than 1mmhos/cm, P^H less than 7.00 Crops: Paddy, Nagli, Mango, Sapota	96006
2	Light red soils	Neutral, E C less than 1 mmhos/cm, P^H = 7.00 Crops: Sugarcane, Paddy, Groundnut, Vegetables,Flowers, Livestock.	215882
3	Black soils	Alkaline, EC-2mmhos/cm, P^H more than 7.00 Crops: Sugarcane, Paddy, Groundnut, Vegetables, Flowers, and Livestock.	227232
4	Alluvial soils	Neutral to Alkaline, P^H: 7.00 to 7.5, E.C. about 1mm, Crops = Sugarcane Maize, Paddy.	167123

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

S. No	Crop	Area (ha)	Production (000 T)	Productivity (Kg/ha)
Major Field crops				
1	Kharif Paddy	113800	396000	34.82
2	Kharif Jowar	6000	9800	16.16
3	Ragi	21700	36100	16.67
4	Kharif Maize	3400	13700	40.56
5	Other Kharif Cereals	1500	700	4.50
6	Kharif Groundnut	48000	90200	18.78
7	Soybean	52700	124300	23.61
8	Green gram	1317	968	7.35
9	Red gram	1321	498	3.77
10	Rabi Jowar	15100	32600	21.66
11	Rabi Maize	7400	28100	37.80
12	Wheat	4300	9700	22.74
13	Bengal gram	8900	7500	8.37
14	Sugarcane	132631	1,24,99,000	940
Major Horticultural crops				
1	Mango	2389.10	45530	19.05
2	Papaya	58.20	1550	26.63
3	Sapota	279.60	15760	56.36
4	Cashewnut	3052.10	30170	9.88
5	Arecanut	6.90	180.4	26.14
6	Banana	398.50	125800	315.68
7	Brinjal	745.15	151180.4	202.88
8	Chilli	1746.35	26530.1	15.19
9	Capsicum	588	41600	70.74
10	Tomato	499	83920	168.17
11	Potato	1126	225230	200.11
12	Okra	225.30	17620	18.20
13	Cucumber	157	20640.61	131.46
14	Onion	297.70	40260.90	135.23
15	Ridge gourd	269.90	28510	105.63
16	Cabbage	595.05	114530.50	192.47
17	Cauliflower	696.55	154610	221.96
18	Fenugreek	390.90	14880.50	38.06
19	Coriander	1.00	50.0	50
20	Ginger	71.00	1860.00	26.19
21	Turmeric	50	1760	35.20
22	Garlic	2	100	50
23	Marigold	113.35	3460.50	30.52
24	Cauliflower	696.55	154610	221.96

Source: District agriculture department.

2.5. Weather data (2023)

Month	Normal Rainfall (mm)	Normal Rainy days (number)	Temperature (^{0} C)		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
Jan-2023	00	00	-	-	-	-
Feb-2023	00	00	-	-	-	-
Mar-2023	00	00	-	-	-	-
April-2023	00	00	-	-	-	-
May-2023	00	00	-	-	-	-
June-2023	93.7	13	-	-	-	-
July-2023	601.3	26	-	-	-	-
Aug-2023	132	25	-	-	-	-
Sep-2023	146.1	18	-	-	-	-
Oct-2023	00	00	-	-	-	-
Nov-2023	00	00	-	-	-	-
Dec-2023	00	00	-	-	-	-
Total	**973.1**	**82**	**-**	**-**	**-**	**-**

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

Category	Population (No.)	Production (Per unit)	Productivity (Per unit)
Cattle			
Crossbred	2,83,637	1,797 lit/lactation	5.90 lit/day
Indigenous	60,477	420 lit/lactation	1.5 lit/day
Buffalo	5,68,884	876.6 lit/lactation	4.87 lit day
Sheep	96,176	20 kg/unit	-
Indigenous	1,30,053	30 kg/unit	-
Goats	-	-	-
Pigs	806	-	-
Poultry			
Hens	4,70,031	290 egg/unit	-
Boiler	4,62,344	2.2 kg/unit	-
Desi	1,00,438	1.4 kg/unit & 59 eggs/year	-

2.7. Details of Operational area/Villages

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Karveer	D. Vadgaon	Sugarcane Paddy Soybean Wheat Vegetables Livestock	• Low productivity of sugarcane • Imbalance fertilizer management • Non availability of high yielding varieties of crops • Unaware about soil health management • Crop losses due to pests and diseases incidence. • Lack on farm advisory in vegetables • Lack of marketing structures for crops • Lack of training for staring new enterprises • Improper cattle management • Heavy drudgery work farm women • Malnutrition found in 3-6 year children	• Promotion of INM in sugarcane • Varietal evaluation in sugarcane • Soil health management • Implementation IPM and IDM practices in crops. • Varietal demonstrations in field crops • Hi-tech vegetable production. • Improved practices of cattle management • Use of improved tools and implements for farm activity • Use of balanced nutritional aspects to 3-6 year children • Formation of Farmer producer company for proper marketing of produce • Use of ICT/social media for dissemination of information
Karveer	Hanbarwadi	Sugarcane Paddy Soybean Wheat Vegetables Livestock	• Low productivity of sugarcane • Imbalance fertilizer management • Non availability of high yielding varieties of crops • Unaware about soil health management • Crop losses due to pests and diseases incidence. • Lack on farm advisory in vegetables • Lack of marketing structures for crops • Lack of training for staring new enterprises • Improper cattle management • Heavy drudgery work farm women • Malnutrition found in 3-6 year children	• Promotion of INM in sugarcane • Varietal evaluation in sugarcane • Soil health management • Implementation IPM and IDM practices in crops. • Varietal demonstrations in field crops • Hi-tech vegetable production. • Improved practices of cattle management • Use of improved tools and implements for farm activity • Use of balanced nutritional aspects to 3-6 year children • Formation of Farmer producer company for proper marketing of produce • Use of ICT/social media for dissemination of information

Kagal	Sulkud	Sugarcane Paddy Soybean Groundnut Jowar Gram Vegetables Livestock	• Low productivity in sugarcane due to improper agronomical practices • Imbalanced fertilizer management in major crops • Low yield due to non-adoption of improved varieties of field crops • Low awareness about bio fertilizers • Crop losses due to pests and disease incidence. • Poor production of vegetables and fruit crops. • Low milk yield in cattle • Heavy drudgery work of farm women • Income generation activities for women • Lack of proper marketing structures • Lack of knowledge about making organic fertilizers • lack of training for starting nursery • Lack of information about new techniques and timely information about crops and weather	• Promotion of Integrated nutrient management • Demonstration on high yielding varieties of agronomical and vegetable crops. • Promotion of soil test based fertilizer management • Promotion of Organic farming • Validation on IPM and IDM technologies. • Awareness about use of bio-agents and bio-pesticide for pest management. • Improved rust resistant/ tolerant varieties of Soybean • Fodder production and nutrition management in cattle. • Use of improved tools implements for farm activity. • Value addition scientific knowledge and skill about value addition of fruits and vegetables • Training Programme on organic input preparation • Capacity building on Hi-tech farming and Nursery raising • Awareness about ICT and Social media tools
Kagal	Choundal	Sugarcane Paddy Soybean Groundnut Jowar Gram Vegetables Livestock	• Low productivity in sugarcane due to improper agronomical practices • Imbalanced fertilizer management in major crops • Low yield due to non-adoption of improved varieties of field crops • Low awareness about bio fertilizers • Crop losses due to pests and disease incidence. • Poor production of vegetables and fruit crops. • Low milk yield in cattle • Heavy drudgery work of farm women • Income generation activities for women • Lack of proper marketing structures • Lack of knowledge about making organic fertilizers • lack of training for starting nursery • Lack of information about new techniques and timely information about crops and weather	• Promotion of Integrated nutrient management • Demonstration on high yielding varieties of agronomical and vegetable crops. • Promotion of soil test based fertilizer management • Promotion of Organic farming • Validation on IPM and IDM technologies. • Awareness about use of bio-agents and bio-pesticide for pest management. • Improved rust resistant/ tolerant varieties of Soybean • Fodder production and nutrition management in cattle. • Use of improved tools implements for farm activity. • Value addition scientific knowledge and skill about value addition of fruits and vegetables • Training Programme on organic input preparation • Capacity building on Hi-tech farming and Nursery raising • Awareness about ICT and Social media tools

Gadhinglaj	Dundage	Soybean Groundnut Sorghum Chilli Chick pea Sugarcane Vegetables Livestock	• Low productivity of Major agronomical crop under rainfed condition • Imbalanced fertilizer management • Unaware about use of bio fertilizers. • Yield losses due to regular insect pests and diseases. • Incidence of leaf curl and thrips on chili. • Poor vegetable production • Lack of technical knowledge about improved farming tools • Low quality fodder • Lack of information about new schemes • Lack of proper marketing	• Promotion of improved varieties of agronomical crops • Promotion of Integrated Nutrient Management • Promotion of dry land technologies and *in situ* soil moisture conservation • Validation of IPM practices. • Intensive vegetable production. • Food crop cultivation for food security • Use of improved farm tools and implements for farming • Use of university recommended fodder varieties • Awareness about new marketing strategies, tools and online platforms • Awareness about ICT tools and forming social media/online information groups
Chandgad	Dholgarwadi	Sugarcane Paddy Cashew Potato Ragi Sweet potatoVegetables Livestock	• Low productivity of major agronomical crops due to local cultivars and improper agronomical practices • Low awareness about sugarcane trash management • Imbalanced use of chemical fertilizers • Reduction in yield due to incidence of pests and diseases • Improper health management in cattle • Difficulties in operating agriculture equipments for farm women • Low awareness about government schemes • Low use of ICT tools for agriculture	• Cost effective crop production technology • Promotion of Integrated Nutrient Management • Sugarcane trash management • Promotion of organic farming • Plant protection measures for cereals. • Introduction of newer variety of vegetables • Availability of technical knowledge of crop production • Proper management practices for dairy animals • Use of modified drudgery reducing implements specially designed for farm women

2.8. Priority thrust areas:

Sr. No.	Discipline	Priority thrust areas
1.	**Agronomy**	• Cultivation of improved varieties of major agronomical crops • Adaption of integrated crop management practices in major agronomical crops. • Use of integrated farming system. • Promote the farmer towards organic farming. • Development of entrepreneurs through seed production. • Promotion of farm mechanization by using improved tools and implements. • Promotion of drip Irrigation system in Sugarcane
2.	**Soil Science**	• Introduction and promotion of organic farming • Promotion of soil test-based Fertilizer Management practices • Emphasis on nutrient use efficiency • Promotion of green manuring • Adoption of Integrated nutrient management to maintain the fertility status of soil • Introduction of biofertilizers e.g., Rhizobium, Azotobacter, Azospirillum, Blue green algae, Azolla & PSB for nutrient management • Promotion of vermi composting • Creation of awareness about identification & management of nutrient deficiency • Promotion of Soil health management

3.	**Plant Protection**	• To reduce crop losses from pests and diseases by using IPM, BIPM and IDM technology • Building judgement about selection of pesticides and pesticides formulations • To create awareness about importance of bio-agents, bio-pesticides, botanicals and allelochemicals for the Eco-friendly pest management. • Implementation of use of bio-pesticides, botanicals, light traps, sticky traps and pheromone traps for effective pest management. • Awareness and entrepreneurship development in Mushroom Cultivation and Bee Keeping
4.	**Animal Science**	• Nutritional management in Cattle and Buffaloes • Promotion of back yard poultry • Management of animals under draught situation • Ecto and Endo parasite control in livestock • Conservation of green fodder and treatment of crop residues • Promotion of fodder & seed production • Management of diseases in livestock
5.	**Home Science**	• Unawareness about millets processing and its use in diet • Lack of knowledge about improved farm tools and to reduce laborious work through improved farm tools. • Unawareness about empowerment of rural women through self-employment by SHG's promotions in the field of fruits, vegetable & Soybean processing • Unawareness about Protein Energy Malnutrition, among Pre-school children • Lack of knowledge about Packaging, Labelling & Marketing skill among the SHG's • Lack of awareness about improvement in nutritional health status.
6.	**Agricultural Extension**	• Promotion of group approach & strengthening of group farming (FPO/FO/FC etc.) • To motivate farmers to use latest technologies as per their capacity • Promote the use of ICT to increase the access to authorized information sources, problem solving • To identify & use the potential crop/commodity leaders for efficient communication & insuring participation of all the CIG members • Entrepreneurship development of rural youth for income centric agriculture • Entrepreneurial motivational training of farmers & youth • Knowledge up gradation about the facilities available at marketing institutions Viz. APMCs, Maha. Warehouse Corporation & MSAMB, Pune • Awareness creation about Climate Change & its Impact on agriculture • To provide information on Polyhouse, Nursery and hi-tech technologies • To provide on spot advocacy to the farmers • To provide personalized mobile agro advisories

3. TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
11	06	141	86	13	08	189	116

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
88	90	1880	2893	712	728	33048	7488957

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
25	53.4	-	-

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	Less weight and girth of cane resulting in low yield of sugarcane& Loss of organic carbon due to burning of trash	28000 ha area under Sugarcane cultivation	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwadi	• Assessment on use of waste decomposer on trash management in Ratoon Sugarcane. • OFT on Management of white grub in sugarcane • FLD on efficacy of Acetobactor, PSB and multimicr onutrient for improvement of fertilizer use efficiency and see the effect on growth and yield of pre-seasonal Sugarcane. • FLD on Integrated Crop Management • FLD on Integrated Nutrient Management with trash management • Training • KisanMela/ Use of ICT/ group approach./ Social Media Use • Technology Mahotasav • Agril. Exhibition. • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
2.	Soybean	Low yields and Imbalanced 13ensitive13 management	35000 ha area under Soybean crop	Sulkud, Choundal, Dundage	• FLD on improved variety Phule Sangam (KDS-726) and INM. • Training • Use of Biofertilizers for seed treatment • FLD on Management of Soybean leaf eating caterpillar • Kisan Mela/ Use of ICT/ group approach./ Social Media Use • Technology Mahotasav • Agril. Exhibition./CIG • Group discussion • Method Demonstration • Field Day • News coverage.
3.	Finger Millet	Low yield under rain feed condition & Crop logging followed by Imbalanced fertilizer management.	18000 ha area under crop	Dholgarwadi	• Assessment on new variety of Ragi of Phule Nachni/KOPN-942 against local variety • Assessment on Foliar spray of 19:19:19 (2%) and INM • Use of ICT/ group approach./ Social Media Use • Group discussion • Method Demonstration • Field Day
4.	Paddy	Low yield due to improper agronomical practices & incidence of Yellow stem borer, BPH & Blue beetle	38000 ha area under crop	Sulkud, Dholgarwadi	• FLD on Varietal demonstration on Phule Samrudhi and field Day • FLD on management of pests (YSB, BPH) • Training

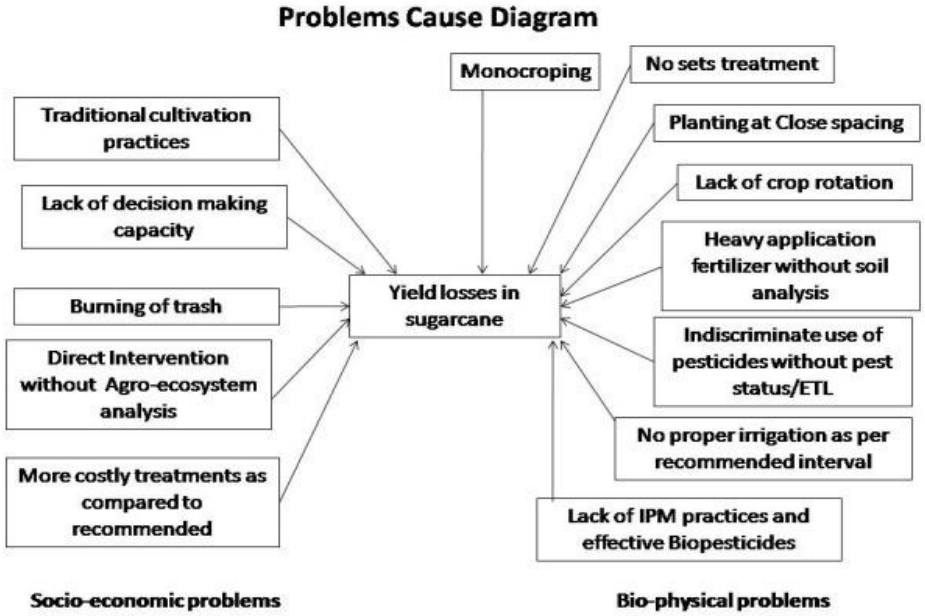
					• Use of ICT/ Social Media Use • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
5.	Sorghum	Low yield under protected irrigation condition	35000 ha area under crop	D. Vadgaon, Dundage	• Assessment on new improved variety of Phule Revti against to local variety. • Group Discussion • Use of Bioferilisers • Technology Mahotasav • Agril. Exhibition. /Use of ICT/ group approach./ Social Media Use • Field Day • In situ soil moisture conservation
6.	Groundnut	Low productivity of groundnut due to old varieties and improper pod filling	900 ha are under Summer groundnut	D. Vadgaon, Hanbarwadi, Sulkud, Choundal, Dholgarwadi	• Kisan Mela • Technology Mahotasav • Agril. Exhibition. • Radio talk • News articles.
7.	Gram	Reduced yield due to use of Local old varieties and gram pod borer & wilt	9000 hectare area under gram crop	D. Vadgaon, Hanbarwadi, Sulkud, Choundal, Dholgarwadi	• FLD on Management of Chick Pea Pod Borer, *H armigera* • Training • KisanMela • Technology Mahotasav • Agril. Exhibition. • Radio talk • News articles
8.	Tomato	Incidence of leaf curl virus and early blight on tomato	450 hectare area under Tomato crop	D. Vadgaon, Hanbarwadi, Dholgarwadi	• OFT on Management of tomato leaf curl virus and early blight • Training • Use of ICT/ Social Media Use • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
9.	Brinjal	Poor nutrient management	525 hectare area under Brinjal crop	D. Vadgaon, Hanbarwadi, Sulkud, Choundal	• FLD on Management of Brinjal Shoot & Fruit Borer • Training • Use of ICT/ Social Media Use • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
10.	Chilli	Severe flower drop	1250 hectare area under Chilli crop	Sulkud, Dundage, Dholgarwadi	• FLD on management of leaf curl & IPM • Training

					• Use of ICT/ Social Media Use/ group approach • Group discussion • Method Demonstration • Field Day • News coverage
11.	Other vegetable crops (okra, onion, garlic, coriander, cabbage etc.)		43%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Use of ICT/ Social Media Use • Group discussion • Radio talk • News coverage • Field Visit
12.	Fodder crops	Inadequate fodder production throughout the year &Unawareness about improved varieties of fodder crops	80%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• FLD on Phule Gunwant & Sorghum COFS-29 • Training • KisanMela/ Use of ICT/ group approach./ Social Media Use • Technology Mahotasav • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
13.	Poultry	low Productivity Unawareness about improved breeds of backyard poultry	80%	Sulkud, Dundage, Dholgarwadi	• Assessment on Black Australorp breed • Training • Kisan Mela/ Use of ICT/ group approach./ Social Media Use • Technology Mahotasav • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
14.	Dairy	Low milk yield of dairy animals, Lower Growth rate, &Body weightAffects health of status of animal	70%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Assessment on Use of Area specific mineral mixture • Assessment on Use of Pro-biotic supplement • FLD on Use of Protocols in Mastitis Management • Training • Kisan Mela/ Use of ICT/ group approach./ Social Media Use • Technology Mahotasav • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage

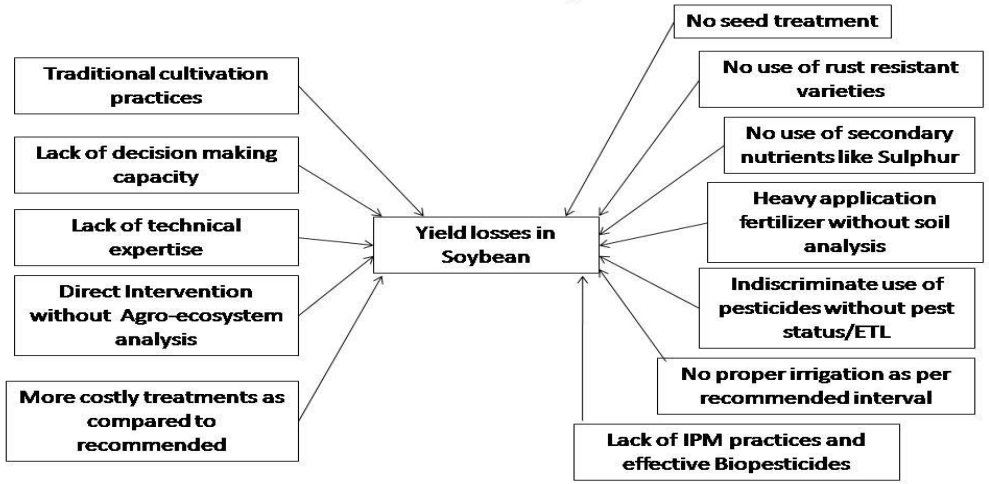
15.	Drudgery reduction	Traditional method of milking cow heavy drudgery & Awkward posture ,Uneasy sitting position and more time consuming &movement of animal while milking, incidence of storage pests, more time consumption and hardworking process, During picking of soybean hand scratches	68%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• To assess the Use of Revolving Stool with Stand for milking activity • To assess the effect of Super Grain Bags to prevent store grain pests during storage • FLD on Spiral Separator for cleaning grains • FLD on Mittens • Training • Use of ICT/ Social Media Use/ group approach • Group discussion • Method Demonstration • Field Day • News coverage
16.	Soybean processing	Unawareness of value addition & Large scale production of soybean	45%	D. Vadgaon, Hanbarwadi, Dundage	• Training • Use of ICT/ Social Media Use/ group approach • Group discussion • Method Demonstration • Field Day • News coverage
17.	Establishment of nutrition garden	Less consumption of leafy vegetables, faulty methods of cooking Iron, micronutrients&vitamin deficiency in found in some villages.	35%	D. Vadgaon, Hanbarwadi, Sulkud	• Training • Use of ICT/ Social Media Use • Group discussion • Method Demonstration • Field Day • News coverage
18.	Women and child care	Low nutritional & health status of women and children mostly anemia among women of all age group	51%	D. Vadgaon, Hanbarwadi, Dundage	• FLD on Soyanuts processing • Training • Use of ICT/ Social Media Use • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
19.	Preservation of fruits and vegetables	Production of vegetables and fruits is good but less number of processing units.	55%	D. Vadgaon, Hanbarwadi	• Training • Use of ICT/ Social Media Use • Group discussion • Method Demonstration • Field Day • Radio talk • News coverage
20.	Capacity Development	Lack of awareness about mandates and functioning of KVK, Unawareness about facilities available at Maharashtra Warehouse Corporation.	65%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Training • Use of ICT/ Social Media Use • Group discussion • Radio talk

		& APMC, Lack of awareness about climate change and its impact on Agriculture & Less use of Social media for effective sharing of Agricultural information Knowledge			• News coverage • Field Visit
21.	Rural youth	Less awareness for use of available agricultural mobile apps for farming, &Lack of awareness about Organic Farming	70%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Training • Use of ICT/ Social Media Use • Group discussion • Radio talk • News coverage • Field Visit
22.	Agro –processing Entrepreneurship Development	Less awareness about Electronic–National Agricultural Market. (e-NAM), Less motivation for Entrepreneurial development for Agri start up and Technology adoption	55%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Training • Use of ICT/ Social Media Use • Group discussion • Radio talk • News coverage • Field Visit
23.	Vermi-compost farming	Soil infertility and high cultivation cost	35%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Training • Use of ICT/ Social Media Use • Group discussion • Radio talk • News coverage • Field Visit
24.	Soil health management	Less awareness about soil and water testing & soil health	60%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Training • Awareness campaign • Group discussion • Method demonstration • Radio talk • News coverage • Field Visit
25.	Animal health management	Unawareness about Vaccination, de worming % infertility	70%	D.Vadgaon, Hanbarwadi, Sulkud, Choundal, Dundage, Dholgarwdai	• Awareness campaign • Group discussion • Method demonstration • Radio talk • News coverage • Field Visit

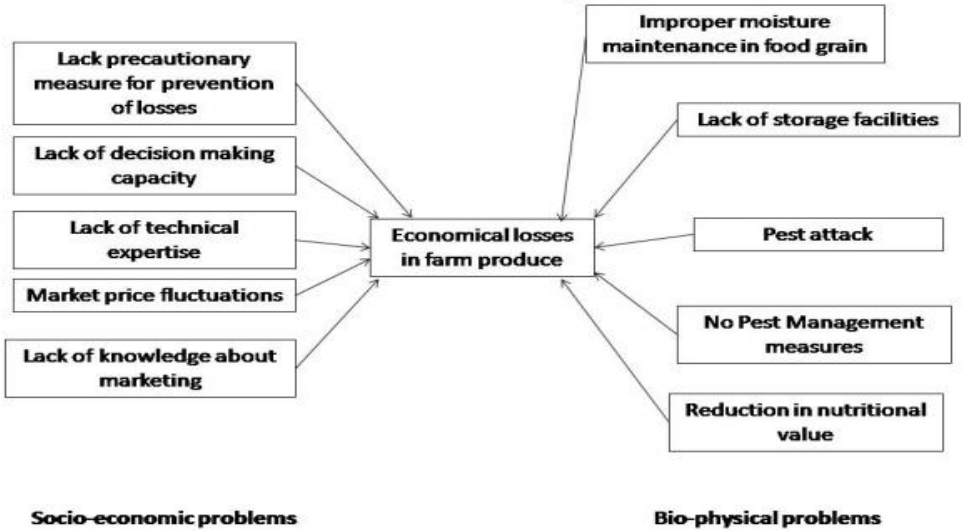
* Support with problem-cause and interventions diagram

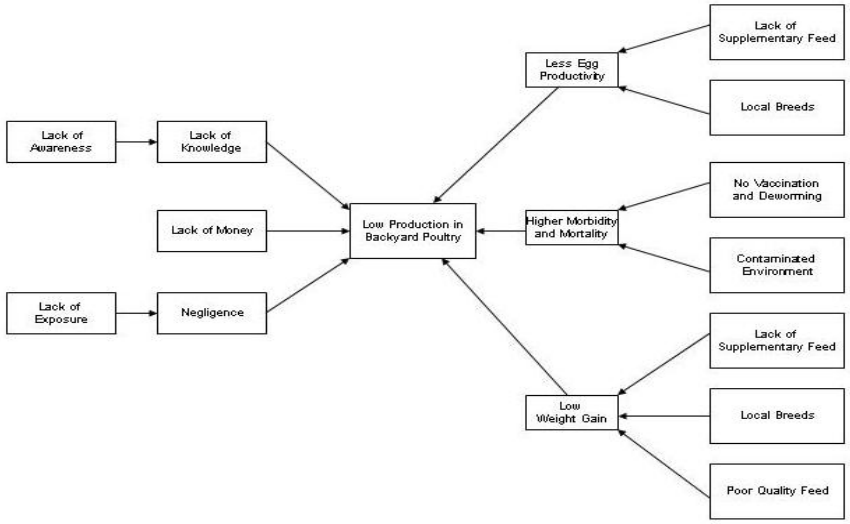


Problems Cause Diagram

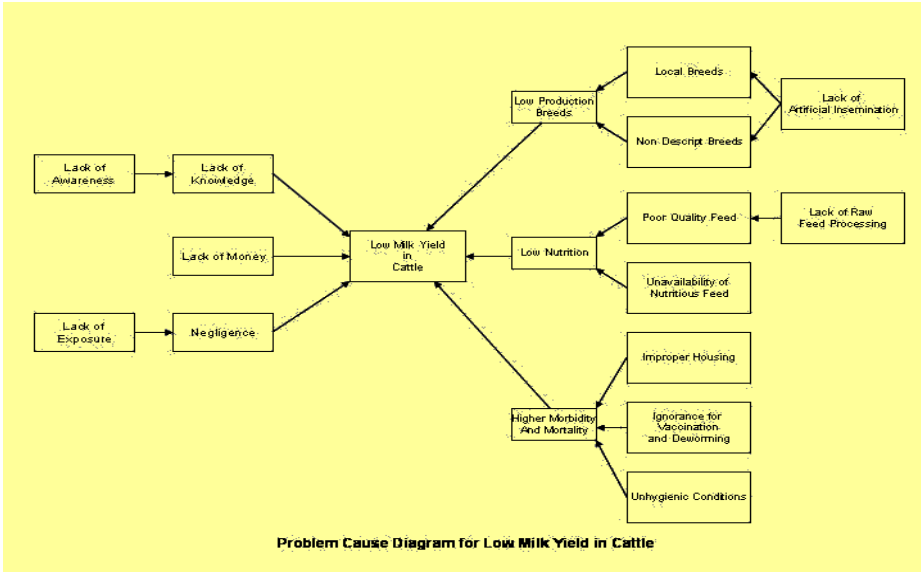


Problems Cause Diagram





Problem Cause Diagram for Low Production in Backyard Poultry



Problem Cause Diagram for Low Milk Yield in Cattle

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	00	01	00	01	00	00	00	00	00	**02**
Varietal Evaluation	00	01	00	01	00	00	00	00	00	**02**
Integrated Pest Management	00	00	00	00	00	00	00	01	00	**01**
Integrated Crop Management	00	00	00	00	00	00	00	00	00	**00**
Integrated Disease Management	00	01	00	00	01	00	00	00	00	**02**
Small Scale Income Generation Enterprises	00	00	00	00	00	00	00	00	00	**00**
Weed Management	00	00	00	00	00	00	00	00	00	**00**
Resource Conservation Technology	00	00	00	00	00	00	00	00	00	**00**
Farm Machineries	00	00	00	00	00	00	00	00	00	**00**
Integrated Farming System	00	00	00	00	00	00	00	00	00	**00**
Seed / Plant production	00	00	00	00	00	00	00	00	00	**00**
Value addition	00	00	00	00	00	00	00	00	00	**00**
Drudgery Reduction	00	01	01	00	00	00	00	00	00	**02**
Storage Technique	00	00	00	00	00	00	00	00	00	**00**
Mushroom cultivation	00	00	00	00	00	00	00	00	00	**00**
Total	**00**	**04**	**01**	**02**	**01**	**00**	**00**	**01**	**00**	**09**

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	00	00	00	00	00	**00**
Nutrition Management	01	00	00	00	00	**01**
Disease of Management	01	00	00	00	00	**01**
Value Addition	00	00	00	00	00	**00**
Production and Management	00	00	00	00	00	**00**
Feed and Fodder	00	00	00	00	00	**00**
Small Scale income generating enterprises	00	00	00	00	00	**00**
TOTAL	**02**	**00**	**00**	**00**	**00**	**02**

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management	Soybean	To Study effect of 0.5 % Ferrous sulphate & Zinc sulphate as seed treatment with RDF on yield of Soybean.	15	15	6
	Sugarcane	To Study effect of application of 75 % RDF through drip and PSB 2.5 L+ Acetobacter 3 L pre ha on yield of pre-seasonal Sugarcane.	15	15	6
Varietal Evaluation	Sugarcane	To assess the performance new varieties of sugarcane COVSI 18121 & CON 13073	10	10	2
	Soybean	Newly released varieties of soybean i.e KDS-992	10	10	2
Integrated Pest Management	Cashew (Ongoing)	Management of Tea Mosquito Bug in Cashew	10	10	3.00
Integrated Disease Management	Groundnut	Management of groundnut leaf spot disease through organic amendments	10	10	3.00
	Okra (Ongoing)	Management of Yellow Vein Mosaic Disease of Okra	13	13	2.6
Total	-	-	**83**	**83**	**24.6**

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
Nutrition management	Cattle	Use of Pro-biotic supplement	01	15
Disease management	Cattle	Use of hormonal preparations to regulate estrus in acyclic cattle	01	15
Total			**02**	**30**

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	**02**	**30**	**30**
Entrepreneurship Development	-	-	-
Health And Nutrition	-	-	-
Value Addition	-	-	-
Kitchen Gardening	-	-	-
Nutrition Security	-	-	-
Other	-	-	-

C. 1. Results of Technologies Assessed
1) Results of On Farm Trial

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
Soybean	Rainfed	Low yield of Soybean due to old varieties	To assess the performance of newly released varieties of soybean i.e KDS-992	10	T1: old variety JS-9305	Plant Height (cm)	43	The performance assessment is satisfactory. Newly released varieties of soybean KDS 992 found on par with local varieties. T2 more yield, plant height & no. of branches than T1	T2 is resistance to rust & shuttering & bold seed variety	No	No
						No. of branches/plant	4				
						Yield (q/ha.)	19.5				
					T2: newly released varieties of soybean KDS-992	Plant Height (cm)	71				
						No. of branches/plant	5				
						Yield (q/ha.)	22.1				

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
T1: old variety JS-9305	Farmers Practice	19.5	(q/ha.)	52500	2.16
T2: newly released varieties of soybean KDS 992	MPKV, Rahuri	22.1	(q/ha.)	65500	2.45

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:** To assess the performance of newly released varieties of soybean KDS 992
2. **Problem Definition:** Low yield of Soybean due to old varieties.
3. **Details of technologies selected for assessment:** Newly released varieties of soybean KDS 992
4. **Source of technology:** MPKV, Rahuri
5. **Production system and thematic area:** Protective Irrigated and Varietal Evaluation
6. **Performance of the Technology with performance indicators:** The performance assessment is satisfactory. Newly released varieties of soybean KDS 992 found on par with local varieties. T2 more yield, plant height & no. of branches than T1
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** T2 more yield, plant height & no. of branches than T1. T2 is resistance to rust & shuttering & bold seed variety
8. **Final recommendation for micro level situation:** performance of newly released varieties of soybean KDS 992 is superior than local varieties
9. **Constraints identified and feedback for research:** No
10. **Process of farmers participation and their reaction:** Problems identified on the basis of PRA survey of selected village, selected farmers in the presence of member of agriculture committee, conducted training program, method demonstration on seed treatment.
11. Good Quality Photo in JPG (separate with proper caption)

	
Field Visit	**Field Visit**

2) Results of On Farm Trial

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
Sugarcane	Irrigated	Low Yield due to flowering of sugarcane, repeated cultivation of same variety	To assess the performance new varieties of sugarcane COVSI-18121, CON 13073	10	**T1:** old variety CO86032	No. of tillers/clump	9	The performance assessment is not satisfactory. The yield of newly released varieties of sugarcane COVSI-18121, CON 13073 are less than CO 86032.	T1 is more yield than T2 & T3. Due to T2 stem girth is more but tillering is less than T1, T3 tillering is more but stem girth is less than T2	No	No
						Yield (q/ha.)	160				
					T2: newly released varieties of sugarcane COVSI-18121	No. of tillers/clump	6				
						Yield (q/ha.)	145				
					T3: newly released varieties of sugarvane CON 13073	No. of tillers/clump	7				
						Yield (q/ha.)	120				

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
T1: old variety CO86032	Farmers Practice	1600	(q/ha.)	360000	4
T2: newly released varieties of sugarcane COVSI-18121	VSI Pune	1450	(q/ha.)	315000	3.62
T3: newly released varieties of sugarvane CON 13073	NAU, Navsari	1200	(q/ha.)	240000	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:** To assess the performance new varieties of sugarcane COVSI-18121, CON 13073
2. **Problem Definition:** Low Yield due to flowering of sugarcane, repeated cultivation of same variety
3. **Details of technologies selected for assessment:** Newly released varieties of COVSI-18121, CON 13073
4. **Source of technology:** VSI Pune & NAU, Navsari
5. **Production system and thematic area:** Protective Irrigated and Varietal Evaluation
6. **Performance of the Technology with performance indicators:** The performance assessment is not satisfactory. The yield of newly released varieties of sugarcane COVSI-18121, CON 13073 are less than CO 86032.
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** T1 is more yield than T2 & T3. Due to T2 stem girth is more but tillering is less than T1, T3 tillering is more but stem girth is less than T2
8. **Final recommendation for micro level situation:** performance of newly released varieties of Sugarcane COVSI-18121, CON 13073 is not superior than local varieties
9. **Constraints identified and feedback for research:** T2 stem girth is more but tillering is less than T1, T3 tillering is more but stem girth is less than
10. **Process of farmers participation and their reaction:** Problems identified on the basis of PRA survey of selected village, selected farmers in the presence of member of agriculture committee, conducted training program.
11. Good Quality Photo in JPG (separate with proper caption)

	
Field Visit	**Field Visit**

3) Results of On Farm Trial

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
Soybean	Irrigated Medium Soil	Low yield under irrigated condition.2. Imbalanced fertilizer management	To Study effect of 0.5 % ferrous sulphate & Zinc sulphate as seed treatment with RDF on yield of Soybean.	15	T1- farmer Practice(Application of 50 Kg DAP per Acer) T2 Seed treatment with 0.5 % Ferrous & zinc sulphate (5 gm/ kg seeds) with RDF (50:75:45 NPK kg/ha as per soil test value)	Yield (q/ ha) No. of pods/ plant Yield (q/ ha) No. of pods/ plant	18.30 96 24.80 116	Seed treatment with 0.5 % ferrous sulphate & Zinc sulphate and Rhizobium & PSB (25 gm /kg seed.) With RDF resulted in 35.51 % yield improvement over the control.	The technology is easy for the application and it result in yield improvement in the soybean.	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) Application of 50 kg DAP/acre		18.30	q/ha.	47560	2.23
Technology option 2 Seed treatment with 0.5 % Ferrous & zinc sulphate (5 gm/ kg seeds) with RDF (50:75:45 NPK kg/ha as per soil test value)	MPKV Rahuri	24.80	q/ha.	76710	2.94

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 -To Study effect of 0.5 % ferrous sulphate & Zinc sulphate as seed treatment with RDF on yield of Soybean.

2. Problem Definition - 1. Low yield under irrigated condition.2. Imbalanced fertilizer management.

3. Details of technologies selected for assessment

T1- Farmers Practice (Application of 50 kg DAP)

T2- Seed

treatment with 0.5 % Ferrous & zinc sulphate (5 gm/ kg seeds) with RDF (50:75:45 NPK kg/ha as per soil test value)

4. Source of technology- MPKV, Rahuri 2021

5. Production system and thematic area- Irrigated & Integrated Nutrient Management.

6. Performance of the Technology with performance indicators

Performance indicators	**T_1**	**T_2**
i) No. of pods/ plant	96	116
ii) Production (q/ha)	18.30	24.8
iii) B: C ratio	2.23	2.94

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

- Before this OFT programme the farmers were illiterate about 0.5 % ferrous sulphate & Zinc sulphate as seed treatment and balanced use of fertilizer in soybean.
- They were not doing seed treatment with 0.5 % ferrous sulphate & Zinc sulphate (5 gm/kg seed) and Rhizobium & PSB @ 25 gm /kg seed.
- Method of application of ferrous sulphate & Zinc sulphate and Rhizobium & PSB is very easy.
- The farmers understood that seed treatment with 0.5 % ferrous sulphate & Zinc sulphate and Rhizobium & PSB (25 gm /kg seed.) With RDF resulted in 35.51 % yield improvement over the control.

8. Final recommendation for micro level situation

Seed treatment with 0.5 % ferrous sulphate & Zinc sulphate and Rhizobium & PSB (25 gm /kg seed.) With RDF resulted in 35.51 % yield improvement over the control. So the technology should be popularized through state Agril. Department by taking demonstration on large area as low productivity of Soybean has become a major problem

9. Constraints identified and feedback for research -

10. Process of farmers participation and their reaction

Village Dundage Tal: Gadhingalaj was selected by KVK, Kaneri as Focal village especially for conducting various activities of KVK. The bench mark Survey was conducted in the month of March 2022 on the basis of this survey low yield in Soybean was identified due to imbalanced fertilizer management. Hence OFT on this crop / topic was undertaken, before implementation of this OFT, farmers were selected by taking Group Discussion they were explained about the technology to be given. The farmers were suggested to use soil test based fertilizer management in Soybean. Only 0.40 ha area was allotted to every farmer. A training programme on Production technology of Soybean with special reference to balanced use of fertilizer was conducted at village Dundage for OFT beneficiaries. They were given method demonstration on seed treatment with ferrous sulphate & Zinc sulphate and bio fertilizers during training programme. After sowing various observations pertaining to cost of cultivation, No. of pods per plant, increase in yield per hectare and B:C Ratio were recorded with the help of farmers participation.

11. Good Quality Photo in JPG (separate with proper caption)

	
Training Program	**Field Visit**

4) Results of On Farm Trial

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
Sugarcane	Irrigated Medium Soil	1. More cost on chemical fertilizers in sugarcane. 2. Imbalanced fertilizer management. 3. No use of bio fertilizers by farmers.	To Study effect of application of 75 % RDF through drip and PSB 2.5 L+ Acetobacter 3 L pre ha on yield of pre-seasonal Sugarcane.	15	Farmers Practice (Application of RDF(400: 170:170 NPK kg/ha) T2 Application of 75 % RDF through drip (300:127.50:127.50 NPK kg/ha) + PSB 2.5L/ha at the time of planting & Acetobacter 3 L/ ha 60 DAP	Yield (q/ ha) No. of Nodes/ Cane (At harvest) Yield (q/ ha) No. of Nodes/ Cane (At harvest)	1153 17 1504 26	Application of 75 % RDF through drip and PSB 2.5 L+ Acetobacter 3 L pre ha helps in saving of Rs. 6250 on chemical fertilizers.	T2 Technology gives 30.44 % more yield over the T1 technology	–	–

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) (Application of RDF(400:170:170 NPK kg/ha)	MPKV Rahuri	1153	q/ha.	186090	2.36
Technology option 2 Application of 75 % RDF through drip (300:127.50:127.50 NPK kg/ha) + PSB 2.5L/ha at the time of planting & Acetobacter 3 L/ ha 60 DAP		1504	q/ha.	277620	2.93

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 – To Study effect of application of 75 % RDF through drip and PSB 2.5 L+ Acetobacter 3 L pre ha on yield of pre-seasonal Sugarcane.
2. Problem Definition - 1. More cost on chemical fertilizers in sugarcane.2. Imbalanced fertilizer management.3. No use of bio fertilizers by farmers.
3. Details of technologies selected for assessment

T1- Farmers Practice (Application of RDF (400: 170:170 NPK kg/ha)
T2- Application of 75 % RDF through drip (300:127.50:127.50 NPK kg/ha) + PSB 2.5L/ha at the time of planting & Acetobacter 3 L/ ha 60 DAP

4. Source of technology- MPKV, Rahuri 2021
5. Production system and thematic area- Irrigated & Integrated Nutrient Management.
6. Performance of the Technology with performance indicators-

Performance indicators	T_1	T_2
i) No. of Nodes/ Cane (At harvest)	96	116
ii) Production (q/ha)	1153	1504
iii) B: C ratio	2.36	2.93

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

- Before this OFT programme the farmers were illiterate Application of 75 % RDF through drip (300:127.50:127.50 NPK kg/ha) + PSB 2.5L/ha at the time of planting & Acetobacter 3 L/ ha 60 days after plantation in sugarcane.
- They were not doing Acetobacter and PSB as a bio fertilizer in sugarcane Crops.
- Method of application of 75 % RDF through drip (300:127.50:127.50 NPK kg/ha) + PSB 2.5L/ha at the time of planting & Acetobacter 3 L/ ha 60 days after plantation in sugarcane is very easy.
- The farmers understood that application of 75 % RDF through drip (300:127.50:127.50 NPK kg/ha) + PSB 2.5L/ha at the time of planting & Acetobacter 3 L/ ha 60 days after plantation in sugarcane resulted in 30.44 % yield improvement over the control.

8. Final recommendation for micro level situation

Application of 75 % RDF through drip (300:127.50:127.50 NPK kg/ha) + PSB 2.5L/ha at the time of planting & Acetobacter 3 L/ ha 60 days after plantation in sugarcane resulted in 30.44 % yield improvement over the control. So the technology should be popularized through state Agril. Department by taking demonstration on large area as low productivity of Soybean has become a major problem

9. Constraints identified and feedback for research – Nil

10. Process of farmers participation and their reaction-

Village Daryache Wadgaon Tal Karveer was selected by KVK, Kaneri as Focal village especially for conducting various activities of KVK. The bench mark Survey was conducted in the month of March 2022 on the basis of this survey low yield in Sugarcane was identified due to imbalanced fertilizer management. Hence OFT on this crop/topic was undertaken, before implementation of this OFT, farmers were selected by taking Group Discussion, they were explained about the technology to be given. The farmers were suggested to use soil test based fertilizer management in Sugarcane. Only 0.40 ha area was allotted to every farmer. A training programme on Integrated Nutrient Management in Sugarcane with special reference to balanced use of fertilizer was conducted at village Daryache Wadgaon for OFT beneficiaries. After sugarcane Plantation various observations pertaining to cost of cultivation, No. of Nodes per Cane, increase in yield per hectare and B: C Ratio were recorded with the help of farmer's participation.

	
Field Visit	**Field Visit**

5) Results of On Farm Trial

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	Incidence of leaf spot disease	Management of groundnut leaf spot disease through organic amendments	10	**T1-** Farmers practice No any intervention for leaf spot management by farmers.	PDI	12.28	Assessed technology found superior over farmers practices and observed less disease incidence	Effect of cow urine is promising for the management of Leaf Spot and got good yield performance over farmer's practices.		
					T2 - Technology assessment Foliar spraying of neem seed kernel extract 5 % (50 g/ l water) at 30, 45 and 60 DAS or to spray cow urine 10 % (100 ml/l water) at 20, 40, 60 and 80 days after sowing	PDI	6.52				
					T3- Technology assessment Foliar spraying of Mancozeb 75 WP @ 25 g + Carbendazim 75 WP @25 g per 10 lit water.	PDI	5.13				

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
T1- Farmers practice No any intervention for leaf spot management by farmers.	-	1215	kg/ha	38380	2.11
T2 - Technology assessment Foliar spraying of neem seed kernel extract 5 % (50 g/ l water) at 30, 45 and 60 DAS or to spray cow urine 10 % (100 ml/l water) at 20, 40, 60 and 80 days after sowing	Junagarh Agriculture University, Junagarh (Gujrat)	1620	kg/ha	59955	2.61
T3- Technology assessment Foliar spraying of Mancozeb 75 WP @ 25 g + Carbendazim 75 WP @25 g per 10 lit water.	MPKV, Rahuri	1698	kg/ha	66040	2.84

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:** Management of groundnut leaf spot disease through organic amendments
2. **Problem Definition:** Incidence of leaf spot disease.
3. **Details of technologies selected for assessment:** T2 - Technology assessment

   Foliar spraying of neem seed kernel extract 5 % (50 g/ l water) at 30, 45 and 60 DAS or to spray cow urine 10 % (100 ml/l water) at 20, 40, 60 and 80 days after sowing.
4. **Source of technology:** Junagarh Agriculture University, Junagarh (Gujrat)

5. **Production system and thematic area:** Irrigated and IDM

6. **Performance of the Technology with performance indicators:** Excellent, revealed very less percent disease incidence and achieved higher yield

7. **Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques:** Assessed technology reduced the disease management cost and got promising yield.

8. **Final recommendation for micro level situation:** Assessed technology found suitable in Kolhapur location and recommended for application in Groundnut crop

9. **Constraints identified and feedback for research:** Many farmers haven't desi cow and cost of management is higher than chemical treatment.

10. **Process of farmer's participation and their reaction:** Problems identified during KVK's PRA - prioritized problems – selection of village-selection of farmers in the presence of members of Agri. Committee of Grampanchayat chaired by Sarpanch-conducted training programs. Farmers Reaction:- Unbiased selection and enthusiastically agreed to conduct trial of this new technology.

11. Good Quality Photo in JPG (separate with proper caption)

	
Training Program	**Field Visit**

6) Results of On Farm Trial - Low milk yield in CB cows

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
Dairy	Semi-stall feeding management.	Low milk yield in CB cows	To study the effect of Pro-biotic on milk production in CB cow	15	T1: Farmers practice: No use of Pro-biotic	Milk Yield (ltr/day/cow)	7.93	Milk yield increased and Ruminal digestion improved	Easy handling for farmers, Milk yield & Fat% increased, Cost of production is very low, Body condition score of animals Improved.	No	Nil
						Fat (%)	3.94				
					T2: Improved Technology: -Use of Pro-biotic 50 ml/(diluted M)/cow/day	Milk Yield (ltr/day/cow)	8.98				
						Fat (%)	4.42				

Contd..

Technology Assessed	Source of Technology	Production (milk lit/day)	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
T1: Farmers practice: No use of Pro-biotic	NDRI, Karnal	7.93	(Ltr/day/cow)	130	1.25
T2: Improved Technology: -Use of Pro-biotic 50 ml/(diluted M)/cow/day		8.98	(Ltr/day/cow)	371	1.53

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:** To study the effect of Pro-biotic on milk production in cross breed cow.
2. **Problem Definition:** Low milk yield in cross breed cows
3. **Details of technologies selected for assessment:** Use of Pro-biotic on milk production in cross breed cow.
4. **Source of technology:** NDRI, Karnal
5. **Production system and thematic area:** Animal Nutrition Management
6. **Performance of the Technology with performance indicators:** Milk yield increased and Ruminal digestion improved
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other**

   Scoring techniques: Easy handling for the farmers, milk yield & fat % increased, cost of production is very low, Body condition score of animals Improved.
8. **Final recommendation for micro level situation:** Milk yield increased due to Ruminal digestion.
9. **Constraints identified and feedback for research:** Care should be taken during fermentation process.
10. **Process of farmer's participation and their reaction:** Problem identification – Selection of village – Selection of farmers – Training – Inputs distribution – Diagnostic visit – Observation taken

    Farmer's reaction: Eagerly adopted, Milk yield increased and Ruminal digestion improved

10. **Good Quality Photo in JPG (separate with proper caption)**

	
Training Program	**Input Distribution**

7) Results of On Farm Trial

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
Dairy	Stall Feeding Management	Irregular heat, anoestrous in cattle, Delayed pregnancy causes economic loss to farmers	Use of hormonal preparations to regulate estrus in acyclic cattle	15	T1: Farmers Practice – No treatment	Percentage of Induction of heat		Result awaited .			
						Conception rate					
					T_2: Technology assessed: - Treatment- Use of GnRH /PGF 2 alpha to induce heat.	Percentage of Induction of heat					
						Conception rate					

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
T1: Farmers Practice – No Treatment	MAFSU, Nagpur	Result awaited			
T_2: Technology assessed - Treatment- Use of GnRH /PGF 2 alpha to induce heat.					

C2. 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: Use of hormonal preparations to regulate estrus in acyclic cattle.

2 Problem Definition: Irregular heat, anoestrous in cattle, Delayed pregnancy causes economic loss to farmers

3 Details of technologies selected for assessment: To regulate estrus in acyclic cattle by using hormonal preparations like of GnRH /PGF 2 alpha.

4 Source of technology: MAFSU, Nagpur

5 Production system and thematic area: Animal Disease Management

6 Performance of the Technology with performance indicators: Result awaited

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

8 Final recommendation for micro level situation:

9 Constraints identified and feedback for research:

10 Process of farmers participation and their reaction:

11 Good Quality Photo in JPG (separate with proper caption)

8) Results of Technologies Assessed

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 Stripper	-	Less work efficiency & Injuries in fingers During stripping groundnut pods.	Assessment of Improved Groundnut stripper for stripping groundnut pods	15	T1: Farmers Practice	Average Of Output kg/h.	2.62	Result shown that average output is 14.18kg/hr. in assessed practice against 2.62kg/hr. output in traditional practice, also increase the work efficiency up to 85.18%.	Enhance the work efficiency due to use of groundnut stripper and reduce drudgery due to use of this technology.	No	No
						Average of % increase in efficiency	-				
					T2: Technology assess	Average Of Output kg/h.	15.07				
						Average of % increase in efficiency	85.18				

C2. 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 Improved Groundnut stripper for stripping groundnut pods

2 Problem Identification: less work efficiency & Injuries in fingers during stripping groundnut pods.

3 Details of technologies selected for assessment: use of Improved Groundnut Stripper

4 Source of technology: UAS, Dharwad

5 Production system and thematic area: Drudgery Reduction

6 Performance of the Technology with performance indicators: Result shown that average output is 15.07kg/hr. in assessed practice against 2.2.62kg/hr. output in traditional practice, also increase the work efficiency upto 85.18%.

7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Enhance the work efficiency due to use of groundnut stripper and reduce drudgery due to use of this technology.

8 Final recommendation for micro level situation: Use of groundnut stripping machine for stripping of groundnut pot for reduction of drudgery of farm women.

9 Constraints identified and feedback for research: It should be available in the local market.

10 Process of farmer's participation and their reaction: Selection of village – Problem identification –selection of farm women – training – input distribution – demonstration – data collection.

11. Good Quality Photo in JPG (separate with proper caption)

Method Demonstration

9) Results of Technologies Assessed

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
Nipping Machine	-	Traditional method of nipping in bending posture. More time consuming and less work efficiency	Assessment of solar operated nipping (green foliage collector) machine for chickpea	15	T1: Farmers practice:	Average Of Output acre/h	0.046 (2003 sq. ft.)	Result shown that Average Of Output acre/h0.35 (15246 sq. ft.) Increased in improved technology against 0.046 (2003 sq. ft.) increased in traditional practice and also increases the work efficiency up to 88.38%.	Enhance the work efficiency due to use of nipping machine and reduce drudgery due to use of this technology.	No	No
						Average of % increase in efficiency	-				
					T2: Improved technology:	Average Of Output acre/h	0.35 (15246 sq. ft.)				
						Average of % increase in efficiency	88.38				

C2. 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 solar operated nipping (green foliage collector) machine for chickpea
2. **Problem Identification:** Traditional method of nipping in bending posture & More time consuming and less work efficiency
3. **Details of technologies selected for assessment:** Use of Nipping Machine for nipping of chickpea.
4. **Source of technology:** UAS, Raichur
5. **Production system and thematic area:** Drudgery Reduction
6. **Performance of the Technology with performance indicators:** Result shown that Average Of Output acre/h0.35 (15246 sq. ft.) Increased in improved technology against 0.046 (2003 sq. ft.) increased in traditional practice and also increases the work efficiency up to 88.38%..
7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** Enhance the work efficiency due to use of nipping machine and reduce drudgery due to use of this technology.
8. **Final recommendation for micro level situation:** It is beneficial to farm farm women. It helps to increase the work efficiency and low cost technology for farmers.
9. **Constraints identified and feedback for research:** No
10. **Process of farmer's participation and their reaction:** Selection of village – Problem identification – Selection of Anganwadi – selection of preschool children's – training – input distribution – demonstration– data collection.
11. Good Quality Photo in JPG (separate with proper caption)

	
Training Program	**Method Demonstration**

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. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
1.	Finger Millet	Integrated Crop Variety Introduction	To adapt pair row planting technology of Finger Millet with use of urea-DAP briquette	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day, krishi saptah & other extension activities.	04	275	125
2.	Sorghum	Variety Introduction	Use improved variety of rabi sorghum Phule Revti against to local variety	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day, krishi saptah & other extension activities.	03	250	150
3.	Soybean	INM	To improve productivity of Soybean by using liquid bio-fertilizers formulation as a seed treatment and STBF management in to increase area under Soybean-Sugarcane cropping system.	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day, krishi saptah & other extension activities.	05	325	250
4.	Finger Millet	INM	Foliar spray of 19:19:19 (2%) and Integrated Nutrient Management in Finger Millet to improve productivity in Dholgarwadi village of Chandgad tahsil	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day, krishi saptah & other extension activities.	04	105	70
5.	Sugarcane	Resource conservation Technology	Sugarcane crop residues management for improvement of soil health in	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day, krishi saptah & other extension activities.	12	825	1250
6.	Soybean	IDM	Management of Pod Blight in Soybean, *Diphorthe phaselolorum*	1. Seed Treatment with Thiram 37.5 + Carboxim 37.5 @ 3g/ kg seeds 2. Spraying of Tebuconazole 10 % WP + Sulphur 65 WP @ 2.5 g/l water at the time of pod development	03	52	24
7.	Fodder Maize	IPM	Management of Fall Army Worm, *Spodoptera frugiperda* in fodder Maize	1.Installation of Pheromone Traps @ 4 traps /acre 2.Installation of Bird perches @ 20/acre 3.Spray of NSE 5% or Azadiractine 1500 ppm @ 5 ml/l water 4.Whorl application with microbial spray of *Metarhizium anisopliae* or *Metarhizium rileyi* @ 5g/l water	04	61	29

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**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Finger Millet	Integrated Crop Variety Introduction	To adapt pair row planting technology of Finger Millet with use of urea-DAP briquette	Kharif 2023	2.6	2.6	0	0	13	-
2	Sorghum	Variety Introduction	Use improved variety of rabi sorghum Phule Revti against to local variety	Rabi 2023	6	6	0	0	15	-
3	Soybean	INM	To improve productivity of Soybean by using liquid bio-fertilizers formulation as a seed treatment and STBF management in Sulkud village of Kagal tashil.	Kharif 2023	5.2	6	0	15	15	_
4	Finger Millet	INM	Foliar spray of 19:19:19 (2%) and Integrated Nutrient Management in Finger Millet to improve productivity in Dholgarwadi village of Chandgad tahsil	Kharif 2023	5.2	6	0	15	15	_
5	Sugarcane	Resource conservation Technology	Sugarcane crop residues management for improvement of soil health in Daryache Wadgaon village of Karveer thasil.	Rabi 2022-23	5.2	6	0	15	15	_
6	Soybean	IDM	Management of Pod Blight in Soybean, *Diphorthe phaselolorum*	Kharif, 2023	3.00	3.00	00	15	15	-
7	Fodder Maize	IPM	Management of Fall Army Worm, *Spodoptera frugiperda* in fodder Maize	Kharif 2023	3.00	3.00	00	15	15	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Finger Millet	Kharif 2023	Rainfed	Medium	Low	Medium	Medium	Lentil	Last week of June	Mid sep. to Mid Oct.	-	-
Sorghum	Rabi 2022	Irrigated	Medium	Low	Medium	Medium	Soybean	Last Week of October	Mid. Feb.	-	-
Soybean	Kharif 2023	Rainfed	Medium black	Low	Low	Medium	Sugarcane	Jun 2023	October 2023	-	-
Finger Millet	Kharif 2023	Irrigated	Medium black	Low	Low	Medium	Paddy	July 2023	November 2023	-	-
Sugarcane	Rabi 2022-23	Irrigated	Medium black	Low	Medium	Medium	Sugarcane	November 2022(Ratoon Sugarcane)	December 2023	-	-
Soybean	Kharif	Rainfed	Medium	Low	Medium	Medium	Chick Pea	June, 2023	Sept. 2023	-	-
Maize (Fodder)	Kharif	Rainfed	Medium	Low	Medium	Medium	Sugarcane	June 2023	Sept. 2023	-	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Easily available of urea DAP briquettes to farmers
2	Easily available of seed in markets & to develop the combine harvester like wheat
3	Need to develop short duration and fertilizer responsive verities
4	Need to develop improved tractor drawn machineries for sowing of Soybean on BBF method and fertigation techniques for Soybean.
	Need to develop short duration and fertilizer responsive verities
	Need to develop small machinery that can be worked for trash cutting.
5	Demonstrated technology Management Soybean Pod Blight found promising to check infection of pod blight and also achieved higher yield than other Tomato hybrids.
6	Demonstrated technology on Management of Fall Army Worm, *Spodoptera frugiperda* in fodder Maize found promising to check infestation of FAW on ear head development

Farmers' reactions on specific technologies

S. No	Feed Back
1	Integrated Nutrient Management Practices in soybean gives 24.53 % more yield. Use of Bio fertilizers helps in reducing load on chemical fertilizers and increasing root nodules in soyabean.
2	Foliar spray of 19:19:19 (2%) and Integrated Nutrient Management in Finger Millet gives20.45 % more yield against local practice. Quality of the finger millet grains was improved which result in more market price as compare local practices.
3	Around Rs.12300 per ha saved on chemical fertilizers. Improved trash management practices helps in getting 21.61 % more yield over the farmers practice.
4	Demonstrated technology performed good and revealed higher yield.
5	Demonstrated technology on Management of Fall Army Worm, *Spodoptera frugiperda* in fodder Maize found promising and Pheromone trap is a good tool to monitor pests for decision making.

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	08	-	300	-
2	Farmers Training	16	-	356	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	03	-	159	-

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Soybean																		
Soybean	INM	To improve productivity of Soybean by using liquid bio-fertilizers formulation as a seed treatment and STBF management in Sulkud Village of Kagal tashil.	KDS 726	15	6	29.80	21.00	26.4	21.2	24.53	41685	124080	82395	2.97	38566	99640	61074	2.58
Soybean	IDM	Management of Pod Blight in Soybean, *Diphorthe phaselolorum*	KDS 726	15	03	22.36	17.23	20.25	17.76	14.02	39530	111375	71845	2.81	38450	97680	59230	2.54

* 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 & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check											
					High	Low	Average			Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals																			
Rabi Sorghum																			
	Variety Introduction	Use of improved variety of Rabi sorghum Phule Revti against local variety	15	6	32.5	17.5	28	22.5	24.44	Plant Height (cm) 215	204	35000	100800	65800	2.88	35000	81000	46000	2.31
Finger millet																			
Finger millet	INM	Foliar spray of 19:19:19 (2%) and Integrated Nutrient Management in Finger Millet to improve productivity.	15	6	26.10	18.50	21.2	17.6	20.45	No. of fingers/ear 6	No. of fingers/ear 4	30500	72080	41580	2.36	29500	59840	30340	2.02
Commercial Crops																			
Sugarcane																			
Sugarcane	Resource Conservation Technologies	Sugarcane crop residues management for improvement of soil health in Daryache Wadgaon village of Karveer thasil.	15	6	1129	910	1103	909	21.61	Days required for full decomposing of trash 104	Days required for full decomposing of trash 139	87250	319870	232620	3.66	87250	263030	175780	3.01
Fodder Crops																			
Maize (F)																			
	IPM	Management of Fall Army Worm, *Spodoptera frugiperda* in fodder Maize	15	3.00	449.23	521.37	498.52	445.92	11.80	87.3	10.91	33721	99704	65983	2.95	34938	89184	54246	2.55

* 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 Nutri cereals

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Finger millet	Integrated Crop Management	To adapt pair row planting technology of Finger Millet with use of urea-DAP briquette	local	13	2.6	27.5	11.5	20.5	18	13.89	25000	65600	40600	2.62	25000	57600	32600	2.30

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle	Animal Disease Management	Use of Protocols in Mastitis Management	15	15	Result Awaited												
Buffalo	Animal Nutrition Management	Use of Area specific mineral mixture.	15	15	5.04	4.33	16.40 %	7.37	6.85	1000	1732	732	1.732	1000	1390	390	1.39
Dairy	Animal Disease Management	Demonstration of Active heal spray in wound healing	15	15	Result Awaited												

FLD on Farm drudgery reduction

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)			Cost reduction (Rs./ha or Rs./Unit etc.)		
						Demo	Check		Demo	Check	Total	Demo	Check	Total
Groundnut Decorticator	Groundnut	Demonstration on groundnut decorticator for separating kernels from groundnut pods.	15	0	Shelling	29.35	3.48	89.39	06	00	06	1200	00	1200
Sapling Transplanter	-	Demonstration on Sapling transplanter.	15	0	Transplanter	86	47	64.66	01	00	01	200	00	200

FLD on Other Enterprise: Nutrition Garden

Nutrition garden components	Thematic area	Area (sq mt)	No. of Farmer	No. of Units	Yield (Kg)- supply of vegetables, fruits, etc from KG in the year		% change in yield	Household size (number)		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check*		Demo	Check	Gross Cost	Gross Return/Savings*	Net Return	BCR (R/C)	Gross Cost	Gross Return/ Savings*	Net Return	BCR (R/C)
Nutrition Garden	Nutrition Security		15	-	72kg	0		5	5	2200	4320	2120	1.963	0	0	0	0

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

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 courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	2	53	0	53	0	0	0	53	0	53
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	2	16	50	66	0	0	0	16	50	66
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Organic Farming	3	53	15	68	0	0	0	53	15	68
Total	**7**	**122**	**65**	**187**	**0**	**0**	**0**	**122**	**65**	**187**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
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										
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)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs	4	227	22	249	0	0	0	227	22	249
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**4**	**227**	**22**	**249**	**0**	**0**	**0**	**227**	**22**	**249**
IV Livestock Production and Management										
Dairy Management	03	90	40	130	0	0	0	90	40	130
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	02	48	30	78	0	0	0	48	30	78
Disease Management	02	23	09	32	0	0	0	23	09	32
Feed & fodder technology	01	16	00	16	0	0	0	16	00	16
Production of quality animal products										
Others (pl specify)										
Total	**8**	**177**	**79**	**256**	**0**	**0**	**0**	**177**	**79**	**256**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	60	60	0	6	6	0	66	66
Design and development of low/minimum cost diet	2	0	71	71	0	0	0	0	71	71
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	3	0	61	61	0	0	0	0	61	61
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**7**	**0**	**192**	**192**	**0**	**6**	**6**	**0**	**198**	**198**
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										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	02	79	21	100	00	00	00	79	21	100
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (Organic Farming)	04	166	36	202	00	00	00	166	36	202
Total	**6**	**245**	**57**	**302**	**0**	**0**	**0**	**245**	**57**	**302**
VIII Fisheries										
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 CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	01	32	0	32	0	0	0	32	0	32
WTO and IPR issues										
Organic Farming	02	17	67	84	00	00	00	17	67	84
Total	**3**	**49**	**67**	**116**	**0**	**0**	**0**	**49**	**67**	**116**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**35**	**820**	**482**	**1302**	**0**	**6**	**6**	**820**	**488**	**1308**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		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	01	15	02	17	0	0	0	15	02	17
Integrated Crop Management	04	69	0	69	0	0	0	69	0	69
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**05**	**84**	**2**	**86**	**0**	**0**	**0**	**84**	**2**	**86**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										

Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
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										
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)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	02	40	0	40	1	00	1	41	0	41
Production and use of organic inputs	10	224	37	261	4	0	4	228	37	265
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers	2	55	1	56	01	0	01	56	1	57
Soil and Water Testing	1	17	0	17	0	0	0	17	0	17
Others (pl specify)										
Total	**15**	**336**	**38**	**374**	**6**	**0**	**6**	**342**	**38**	**380**
IV Livestock Production and Management										
Dairy Management	02	36	00	36	00	00	00	36	00	36
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	03	55	00	55	00	00	00	55	00	55
Disease Management	04	44	16	60	00	00	00	44	16	60
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	**9**	**135**	**16**	**151**	**0**	**0**	**0**	**135**	**16**	**151**

V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	20	20	0	0	0	0	20	20
Design and development of low/minimum cost diet	2	0	35	35	0	0	0	0	35	35
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										
Women empowerment										
Location specific drudgery reduction technologies	1	0	14	14	0	0	0	0	14	14
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**4**	**0**	**69**	**69**	**0**	**0**	**0**	**0**	**69**	**69**
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										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	4	106	0	106	00	00	00	106	0	106
Integrated Disease Management	2	40	0	40	00	00	00	40	0	40
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (Organic Farming)	1	40	0	40	00	00	00	40	0	40
Total	**7**	**186**	**0**	**186**	**0**	**0**	**0**	**186**	**0**	**186**
VIII Fisheries										
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										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (Organic Farming)	01	00	23	23	00	00	00	00	23	23
Total	**01**	**00**	**23**	**23**	**00**	**00**	**00**	**00**	**23**	**23**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**41**	**741**	**148**	**889**	**6**	**0**	**6**	**747**	**148**	**895**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	2	53	0	53	0	0	0	53	0	53
Micro Irrigation/irrigation										
Seed production										
Nursery management	1	15	2	17	0	0	0	15	2	17
Integrated Crop Management	6	80	50	130	0	0	0	80	50	130
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Organic Farming	3	53	15	68	0	0	0	53	15	68
Total	**12**	**201**	**67**	**268**	**0**	**0**	**0**	**201**	**67**	**268**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
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										
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)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	02	40	0	40	1	00	1	41	0	41
Production and use of organic inputs	14	451	59	510	04	0	04	455	59	514
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers	2	55	1	56	01	0	01	56	1	57
Soil and Water Testing	1	17	0	17	0	0	0	17	0	17
Others (pl specify)										
Total	**19**	**563**	**60**	**623**	**6**	**0**	**6**	**569**	**60**	**629**
IV Livestock Production and Management										
Dairy Management	05	126	40	166	0	0	0	126	40	166
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	05	103	30	133	0	0	0	103	30	133
Disease Management	06	67	25	92	0	0	0	67	25	92
Feed & fodder technology	01	16	0	16	0	0	0	16	0	16
Production of quality animal products										
Others (pl specify)										
Total	**17**	**312**	**95**	**407**	**0**	**0**	**0**	**312**	**95**	**407**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	3	0	80	80	0	6	6	0	86	86
Design and development of low/minimum cost diet	4	0	106	106	0	0	0	0	106	106
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	3	0	61	61	0	0	0	0	61	61
Women empowerment										
Location specific drudgery reduction technologies	1	0	14	14	0	0	0	0	14	14
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**11**	**0**	**261**	**261**	**0**	**6**	**6**	**0**	**267**	**267**
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										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										

Integrated Pest Management	06	185	21	206	00	00	00	185	21	206
Integrated Disease Management	02	40	00	40	00	00	00	40	0	40
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)	05	206	36	242	00	00	00	206	36	242
Total	**13**	**431**	**57**	**488**	**0**	**0**	**0**	**431**	**57**	**488**
VIII Fisheries										
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										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	1	32	0	32	0	0	0	32	0	32
WTO and IPR issues										
Others (Organic Farming)	3	17	90	107	0	0	0	17	90	107
Total	**4**	**49**	**90**	**139**	**0**	**0**	**0**	**49**	**90**	**139**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**76**	**1556**	**630**	**2186**	**6**	**6**	**12**	**1562**	**636**	**2198**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		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	2	0	40	40	0	2	42	0	42	42
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	02	92	92	184	15	06	21	107	98	205
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 (Organic Farming)	01	20	00	20	00	00	00	20	00	20
TOTAL	**5**	**112**	**132**	**244**	**15**	**8**	**63**	**127**	**140**	**267**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		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)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		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	2	0	40	40	0	2	2	0	42	42
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	02	92	92	184	15	06	21	107	98	205
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 (Organic Farming)	01	20	00	20	00	00	00	20	00	20
TOTAL	**5**	**112**	**132**	**244**	**15**	**8**	**23**	**127**	**140**	**267**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	1	27	6	33	10	0	10	37	6	43
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 (Organic Farming)	02	26	90	116	00	00	00	26	90	116
TOTAL	**3**	**53**	**96**	**149**	**10**	**0**	**10**	**63**	**96**	**159**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	01	27	6	33	10	0	10	37	6	43
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 (Organic Farming)	02	26	90	116	00	00	00	26	90	116
TOTAL	**3**	**53**	**96**	**149**	**10**	**0**	**10**	**63**	**96**	**159**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants	1	34	16	50	0	0	0	34	16	50
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)										
Total										
GRAND TOTAL	**1**	**34**	**16**	**50**	**0**	**0**	**0**	**34**	**16**	**50**

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

Area of training	No. of Courses	No. of Participants								
		General/ 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	02	70	02	72	0	0	0	70	02	72
Training of Safe and Judicious use of Glyphosate for PCO's)	01	34	20	54	00	00	00	34	20	54
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming	01	62	12	74	0	0	0	62	12	74
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										

Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting	1	0	19	19	0	0	0	0	19	19
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, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**05**	**166**	**53**	**219**	**0**	**0**	**0**	**166**	**53**	**219**

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	132	1455	48	1503
Diagnostic visits	14	26	09	35
Field Day	08	300	08	308
Group discussions	12	56	09	65
Kisan Ghosthi	11	231	12	243
Kisan Mela	02	3104266	02	3104268
Exhibition	01	1258653	03	1258656
Scientists' visit to farmers field	114	669	102	771
Farmers visit to KVK	276	3110835	89	3110924
Exposure Visits	04	103	5	108
Soil testing & soil health camp	01	137	01	138
White Grub/Animal Health Camps	16	546	15	561
Farmers' seminar/Webinar	01	253	01	254
Farmers' workshop	05	1156	06	1162
Method Demonstrations	25	462	21	483
Celebration of important days	03	101	03	104
Lecture delivered	79	8366	63	8429
Swachha Bharat Mission Activity	13	680	12	692
Prathenium Awareness Week	02	34	02	36
Millet Recipe Competition	03	73	01	74
Soybean Crop Competition	01	176	01	177
Other (Live telecast PM-Kisan Samman Nidhi, PM Maan Ki Baat, Millet conference, Aspirational District programme)	05	379	05	384
Total	**728**	**74,88,957**	**418**	**74,89,375**

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

Details of other extension programmes:

Particulars	Number
Electronic Media (CD./DVD)	00
Extension Literature	04
Newspaper coverage	06
Popular articles	03
Radio Talks	04
TV Talks	00
Animal health camps (Number of animals treated)	14 (775 Animal Treated)
Social Media (No. of platforms Used)	04
Others (KVK in ICAR News)	04
Total	**39**

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				
1	-	-	-	-	-
	Total	-	-	-	-
B	Farmers scientist's interaction programme				
1	-	-	-	-	-
	Total	-	-	-	-
C	Farmers seminars				
1	-	-	-	-	-
	Total				
D	Expert lectures				
1	Bee Colony Division	Zoom	Training Programme on Scientific Beekeeping	01	26
2	Bee Flora and Management of Bee Nutrition	Zoom	Training Programme on Scientific Beekeeping	01	25
3	SOPs for use of Glyphosate	Google meet	Training on Safe and Judicious Use of Glyphosate	01	47
	Total				
E	Any other (Pl. specify)				
1	-	-	-	-	-
	Total	-	-	-	-
	Grand Total (A+B+C+D+E)	**03**	**-**	**03**	**98**

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	Rice	Indigenous Seeds	-	13.4	93,800/-	01
Oilseeds	Soybean	KDS-992 (Phule Durva)	-	40	4,00,000/-	08
Total	-	-	-	**53.4**	**4,93,800/-**	**09**

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
-	-	-	-	-	-	-
Vegetable seedlings						
-	-	-	-	-	-	-
Fruits						
-	-	-	-	-	-	-
Ornamental plants						
-	-	-	-	-	-	-
Medicinal and Aromatic						
-	-	-	-	-	-	-
Plantation						
-	-	-	-	-	-	-
Spices						
-	-	-	-	-	-	-
Tuber						
-	-	-	-	-	-	-
Fodder crop saplings						
-	-	-	-	-	-	-
Forest Species						
-	-	-	-	-	-	-
Others						
-	-	-	-	-	-	-
Total	-	-	-	-	-	-

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg/Lit	Value (Rs.)	No. of Farmers
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	-	-	-	-
Bio Agents	-	-	-	-
-	-	-	-	-
Others				
-	-	-	-	-
Total	-	-	-	-

Production of livestock materials

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

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

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

S.N.	**Date of start**	**Periodicity**	**Number of copies distributed**
1	January, 2023	Jan to March, 2023	100
2	April, 2023	April to June, 2023	100
3	July, 2023	July to Sep, 2023	100
4	October, 2023	Oct to Dec, 2023	100

B. Literature developed/published

Item	**Citation/ Title**	**Authors name**	**Number**
Research papers (Give Citation)	Singh, R., Kale, P.A., Kumar, S., & Sharma, A. (2023). Yield Performance and Popularization of Mustard Variety NRCHB 101 in Kolhapur District of Maharashtra. *Frontiers in Crop Improvement*, Special Issue-III (11), 1916-1918.	Ravindra Singh, Pandurang A. Kale, Sunil Kumar and Ashok Sharma	01
	Internet Based Rural Banking: A Study on Rural Clients	Ravindra Singh Parag Turkhade	01
	Antisiosis Study of Earias Vittella (Fabricius) on Selected Okra Genotypes	Parag Turkhade Swati Gurave S.R.Kulkarni	01
Technical reports	-	-	-
News letters	Siddhagiri Sheti Ved	KVK	04 Quarterly
Technical bulletins/Manual	Training Manual: Extension Methodologies for transfer of agricultural Technology	Ravindra Singh, Sunil Kumar	01
Popular articles	Shree Ann, Vertical gardening	Ravindra Singh, Sunil Kumar, Pratibha B. Thombare & P.B. Chougale	03
Extension literature	-	-	-
Others (Book Chapter)	Bee Flora & Its Management: National Conference on Beekeeping at KVK Baramati	Parag Turkhade & Ravindra Singh	01
TOTAL			**12**

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)	31	Youtube	1489
2	Facebook page/ Account (no of Post)	139	Facebook	3976
3	Mobile Apps	-	Mobile Apps	-
4	WhatsApp groups	116	Whatsapp	2077
5	Twitter Account	12	Twitter	56
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).

"Shivai Farmer Producer Company Limited"

Situation analysis/ Problem statement: Group of farmers from Mandedurg village in chandgad Taluka of Kolhapur district, Maharashtra predominantly growing Finger millet (Nachani) and formed a farmers group under ATMA. They focused on good quality production of Finger millet (Nachani) by adopting various practices like good quality seeds of well suited varieties, good agricultural practices and processing.

Plan, Implement and Support: In the year 2020 the group turned into Farmer Producer Company named as "**Shivai Farmer Producer Company Limited"** which is specifically focussed on finger millet (Nachani) based processed products.Under Maharashtra state government programme of SMART, they received the fund and started the finger millet processing unit and produced different kinds of products such as biscuits, dosa and bakery products and sell the Finger millets processed seed.

Output: Farmers are getting good and assured income from FPC and getting all sorts of scientific advisories from KVK and participating in different Finger millet live crop demonstrations. It has Paid up capital (in Rs.) of 10,000,00 with Maximum shareholding of an Individual Shareholder Member (Rs.) 50,000.

Outcome: About more than 60 farmers have adopted paired row system of transplanting of finger millet which helps in increasing production. They have established Processing unit and developed various value added products with state government schemes SMART. From The FPC they are getting initial benefits of 96000 per year and increasing the number of farmers under finger millet production.

Impact: It is providing handholding and support to FPO up to 5 years and helping in all aspects of management of FPO, inputs, production, processing and value addition, market linkages, credit linkages and use of technology, etc.



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

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)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
Nil	Nil	Nil	Nil

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

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) -

Sr. No.	Name of village	Block	Year
1	D. Vadgaon	Karveer	2023
2	Hanbarwadi	Karveer	
3	Sulkud	Kagal	
4	Choundal	Kagal	
5	Dundage	Gadhinglaj	
6	Dholgarwadi	Changad	

ii. No. of farm families selected per village :

Sr. No.	Name of village	Block	Farm families selected
1	D. Vadgaon	Karveer	134
2	Hanbarwadi	Karveer	0
3	Sulkud	Kagal	87
4	Choundal	Kagal	30
5	Dundage	Gadhinglaj	15
6	Dholgarwadi	Changad	58

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

Sr.	Name of organization	Nature of linkage
1	ATMA	Training Programme Skill Oriented Training Programme for Rural Youth (STRY)
2	AGRI DEPARTMENT	Resource person in programme arranged under unnat sheti samruddh shetkari scheme
3	SAU	Collaborative programme with scientists of medicinal and aromatic plant unit, MPKV Rahuri.
4	Mahatma PhuleKrishiVidyapeeth, Rahuri (MPKV)	Review and planning of KVK activities including action plan, policies and implementation for agricultural field problems, ZREAC meeting, collaborative programmes at district and university level.
5	National Agricultural Research Project (NARP)	Conduct of SAC meeting, field diagnostic visits and publicity of front line demonstrations and on farm advice, conduct of Krishimela, field days and other extension activities.
6	State Department of Animal Husbandry	Jointly implementation of various programs of Livestock
7	Doordarshan	Broadcasting of technical information regarding agriculture and KVK activities.
8	Indian Council of Agricultural Research (ICAR)	Procuring scientific and technical information, strengthening of KVK activities, to keep liaison between ICAR authorities and host institute
9	All India Radio – Kolhapur	Broadcasting of radio talks for farmers of Kolhapur district on technical issues and Information.
10	Local village panchyat and Zilla Parishad	Involvement for the conduct of front line demonstrations, on farm testings, training programmes, rallies and other related programmes.
11	MAVIM (Mahila Arthik Vikas Mahamandal) – Kolhapur	Jointly implementation of programs related to women
12	AGROWON& Local News papers	Publicity of KVK programmes, Popular articles and Organizing joint training programmes
13	Co-operative sugar factory	Transfer of technology for sugarcane production, supply of planting materials
14	Co-operative dairy	Jointly organizing training programmes and animal health camps
15	Private agriculture college	Jointly implementation of RAWE activities in KVK adopted villages

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

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.)
FLD on Soybean	-	ICAR-IISR, Indore	99, 153/-
Training Program on Scientific Cultivation of Cashewnut	-	Directorate of Cashewnut, Kochi, Kerala	60,000/-
CROPSAP	-	DSAO Kolhapur	10,000/-
Training program on Natural Farming	-	ATMA (TAO Gaganbawda, Beed, Chatrapati Sambhajinagar)	5,41,100/-

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**	-	-	-	-
02	**Research projects**	-	-	-	-
		-	-	-	-
03	**Training programmes**	Training program on Natural Farming	03	03	545
04	**Demonstrations**	-	-	-	-
		-	-	-	-
05	**Extension Programmes**	-	-	-	-
	KisanMela	-	-	-	-
	Technology Week	-	-	-	-
	Exposure visit	-	-	-	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	-	-	-	-
06	**Publications**	-	-	-	-
	Video Films	-	-	-	-
	Books	-	-	-	-
	Book chapter	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	**Other Activities** (Pl.specify)	-	-	-	-
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-

D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
Nil	Nil	Nil	Nil	Nil	Nil

E. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
Nil	Nil	Nil	Nil	Nil	Nil

F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
Nil	Nil	Nil	Nil	Nil	Nil

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
Nil	Nil	Nil	Nil	Nil	Nil

H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
Nil	Nil	Nil	Nil	Nil	Nil

I. Details of linkage with SMAF (Sub-mission on Agroforestry)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
Nil	Nil	Nil	Nil	Nil	Nil

7. Convergence with other agencies and departments: NO

8. Innovative Farmers Meet

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	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
Nil	Nil	Nil	Nil	Nil	Nil

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

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

11. Technology Week celebration during 2023: No

Period of observing Technology Week: From to
Online / Offline:
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	-
Lectures organized	-	-	-
Exhibition	-	-	-
Film show	-	-	-
Fair	-	-	-
Farm Visit	-	-	-
Diagnostic Practical's	-	-	-
Supply of Literature (No.)	-	-	-
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	-	-

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
Nil	Nil	Nil	Nil

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
Maharashtra	-	-	-
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
Maharashtra	-	-	-	-
Total	-	-	-	-

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		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 technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Nil	Nil	Nil	Nil	Nil

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)

C. Details of impact analysis of KVK activities carried out during the reporting period

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2023	01	13220	-
Feb 2023	00	13220	-
March 2023	00	13220	-
April 2023	01	13220	-
May 2023	03	13220	-
June 2023	04	13220	-
Jul 2023	03	13220	-
Aug 2023	04	13220	-
Sept 2023	05	13220	-
Oct 2023	01	13220	-
Nov. 2023	04	13220	-
Dec. 2023	01	13220	-

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Kolhapur-II	Text only	20	07	-	-	-	-	27
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	**20**	**07**	**-**	**-**	**-**	**-**	**27**
	Total farmers Benefitted	**13220**	**13220**	**-**	**-**	**-**	**-**	**13220**

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-	-	-

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Paddy *(Kharif2023)*	07.06.2023	10.10.2023	1.20	27 Deshi Var.	Seed/ Grain	34	55095	91800	-
Oilseeds									
Soybean *(Kharif2023)*	12.07.2023	22.10.2023	0.40	KDS-992	Seed	09	23487	45360	-
Others (specify)									
Fodder crop	24.05.2023	Throughout year	8.40	Super Napier	Fodder	489ton	857140	1222500	-

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

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

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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**	-	-	-
February **2023**	-	-	-
March **2023**	-	-	-
April **2023**	-	-	-
May **2023**	-	-	-
June **2023**	-	-	-
July **2023**	-	-	-
August **2023**	-	-	-
September **2023**	-	-	-
October **2023**	-	-	-
November **2023**	-	-	-
December **2023**	-	-	-

F. Database management

S. No	Database target	Database created
1	04	• Database of MPR & AE-MPR • Database of Farmers visit to KVK • Database of Organic Farmers • Kisan Sarathi Portal

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.)		
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

H. Performance of Nutritional Garden at KVK farm
If Nutritional Garden developed at KVK farm/Village Level? Yes
If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
1 R	Vegetable crops	31	8789
	Fruit crops	04	
	Medicinal Crops	06	

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

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
06	Vegetable crops	18	292
	Fruit crops	08	
	Medicinal Crops	06	

H. Details of Skill Development Trainings organized

S.No.	Name of KVKs/SAUs/ICAR Institutes	Name of QP/Job role	Duration (hrs)	No. of participants					
				SCs/STs		Others		Total	
				Male	Female	Male	Female	Male	Female
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

17. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank of India	Kolhapur	07958	Shri Sidhagiri Math	38316771849	416002006	SBIN0007958
With KVK	State Bank of India	Kolhapur	07958	Shri Sidhagiri Math KVK	37762625343	416002006	SBIN0007958

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**			
2	**Traveling allowances**			
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and Equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)				
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

C. Status of revolving fund (Rs. in lakh) for the Four years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2018 to March 2019				
April 2019 to March 2020				
April 2020 to March 2021				
April 2021 to March, 2022				
April 2022 to March 2023				
April 2023 to March 2024				

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/Offline)	Dates
Mr. Rajendra Waware	SMS (Soil Science)	Training Program on Natural Farming	National Center for Organic & Natural Farming, Gaziabad	Offline	09-14 Oct, 2023
Mrs. Pratibha Thombare	SMS (Home Science)	Training Program on Value Addition	CIPHET, Ludhiana	Offline	07-11 Aug, 2023
Dr. Parag Turkhade	SMS (Plant Protection)	Attended One Day Online Orientation Training to Master Trainers for Safe and Judicious Use of Glyphsate ByPCO's	NIPHM, Hyderabad	Online	28th June, 2023
Dr. Parag Turkhade	SMS (Plant Protection)	Attended Three Days Remote Pilot Training for Agri Drone	MPKV Rahuri	Offline	22-24th March, 2023
Dr. Parag Turkhade	SMS (Plant Protection)	Participated in Training Programs & Workshops On Multiplication and Queen Rearing	MPKV, Rahuri	Offline	7-8th Dec, 2023
Dr. Parag Turkhade	SMS (Plant Protection)	Participated in Training Programs & Workshops On Cashew Cultivation, Processing & Value Addition	KSNUAH, Shivamoga	Offline	6-8th Sep, 2023
Dr. Parag Turkhade	SMS (Plant Protection)	21 Days Certificate Course on Agri-skill India	ICAR-IIMR, Hyderabad	Online	9-29th April, 2023

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

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before (base year)	After (current year)
Shendur, Tal. Kagal	889	• Technology Demonstration • On farm Testing • Training • Promotion of Organic Farming • FSN activities	35	61,000/-	93,600/-
Turkewadi, Tal. Chandgad	720	• Technology Demonstration • On farm Testing • Training • Promotion of Organic Farming	27	68,400/-	1,01,388/-

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
1	NARI	06	• FLD • Trainings • Extension Activities	14	15

20. Details of Progress of ARYA Project

Name of Enterprise	No of Training Conducted	No of Beneficiaries	No of Extension Activities	No of Beneficiaries	No of Unit established	Change in income		No. Of Groups Formed
						Before	After	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

21. Details of SAP

S. No.	*Types of major Activity conducted- Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.*	No. of Programmes conducted	No. of Participants
1.	Tree Plantation & Cleanliness drive Cleaning & Tree Plantation at KVK Campus Tree Plantation, Swachata Campaign Activities, Tree Plantation, Agricultural Waste Management, Swachata Awareness Campaign, Waste to Wealth	12	461

S.N.	Name of KVK	Date	***Activity***	No of VIPs	No of Farmers	Others	Total
1	KVK Kolhapur-II	21-03-2023	Cleanliness Drive under Swachhta Abhiyan	00	00	16	16
2	KVK Kolhapur-II	07-08-2023	Tree Plantation & Cleanliness Drive Under Swachhata Action Plan	00	10	17	27
3	KVK Kolhapur-II	05-10-2023	Awareness Campaign about Cleanliness Drive & Agricultural Waste Management	00	168	08	176
4	KVK Kolhapur-II	13-10-2023	Awareness Campaign on Cleanliness Drive	00	00	100	100
5	KVK Kolhapur-II	16-10-2023	Cleanliness Drive at KVK Campus	00	00	17	17
6	KVK Kolhapur-II	18-10-2023	Cleanliness Drive under Special Swachhata Campaign	00	14	00	14
7	KVK Kolhapur-II	21-10-2023	Cleanliness Drive at KVK Campus	00	00	17	17
8	KVK Kolhapur-II	18-08-2023	Scientist Visit to Vermicompost Unit Under SAP	00	07	02	09
9	KVK Kolhapur-II	15-06-2023	Scientist Visit to Vermicompost Unit under SAP	00	03	01	04
10	KVK Kolhapur-II	25-05-2023	Lecture Delivered on Vermicompost Production under SAP	00	56	00	56
11	KVK Kolhapur-II	15-07-2023	Tree Plantation Drive under Swachhata Action Plan	01	00	14	15
12	KVK Kolhapur-II	13-07-2023	Tree Plantation Drive under Swachhata Action Plan	00	00	10	10

22. Books published 2023-24

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

23. 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	76	1562	636	2198
Rural youths	05	127	140	267
Extension functionaries	03	63	96	159
Sponsored Training	01	34	16	50
Vocational Training	05	166	53	219
Total	**90**	**1952**	**941**	**2893**

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	30	09	00
Pulses	00	00	00
Cereals	43	14.6	00
Vegetables	00	00	00
Other crops	30	09	00
Hybrid crops	00	00	00
Total	**103**	**32.6**	**00**
Livestock & Fisheries	45	00	45
Other enterprises	45	00	45
Total	90	00	90
Grand Total	**193**	**32.6**	**90**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	05	60	60
Livestock	02	30	30
Various enterprises	02	30	30
Total	**09**	**120**	**120**
Technology Refined			
Crops	00	00	00
Livestock	00	00	00
Various enterprises	00	00	00
Total	**00**	**00**	**00**
Grand Total	**09**	**120**	**120**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	728	7488957
Other extension activities	39	62416
Total		75,51,373

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke -ting	Awar e-ness	Other enterprise	Total
Kolhapur-II	Text only	20	07	-	-	-	-	27
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	**20**	**07**	**-**	**-**	**-**	**-**	**27**
	Total farmers Benefitted	**13220**	**13220**	**-**	**-**	**-**	**-**	**13220**

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	53.4	4,93,800/-
Planting material (No.)	-	-
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	-	-
Water	-	-
Plant	-	-
Total	**-**	**-**

8. HRD and Publications

Sr. No.	Category	Number
1	Abstract	**01**
2	Workshops	-
3	Conferences	01
4	Meetings	-
5	Trainings for KVK officials	07
6	Visits of KVK officials	-
7	Book published	-
8	Training Manual	01
9	Book chapters	-
10	Booklet	-
11	Leaflets/ Folder/ Pamphlet	-
12	Research papers	02
13	Technical Bulletin	-
14	Popular article	03
15	Lead papers	-
16	Seminar papers	-
17	Extension folder	-
18	Proceedings	-
19	Award & recognition	03
20	On-going research projects	-
21	Other	-