ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2019-20 (1st April 2019 to 31st March 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code Telephone		Email	Website address & No. of visitors	
Address with Fin code	Office	Mobile	Elliali	(hits)
Shri Siddhagiri, Krishi Vigyan Kendra, Kaneri, Tal. Karveer, Dist. Kolhapur- 416234	0231- 2980001	7906314421	kvkkolhapur2@gmail.com kvk.kolhapur2@icar.gov.in	https://kvkkolhapur2.icar.gov.in (2150)

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

Address	Telephone		т п	337 1 14 11
	Office	Mobile	E mail	Website address
Shri Kshetra Siddhagiri				
Mahasansthan, Kaneri Math At post:	0231-2671059		siddhagirimath@gmail.com	www.siddhagirimath.org
Kaneri, Taluka: Karveer	0231-2684100	-	siddhagii iniath @gilian.com	www.siddhaghilliadh.org
Dist: Kolhapur 416234(M.S.)				

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

Nama	Telephone / Contact				
Name	Office	Mobile	Email		
Dr. Ravindra Singh	0231-2980001	7906314421	ravindrasingh94125@gmail.com		

1.4. Year of sanction: 14 March, 20181.5. Staff Position (as on 31 December, 2019)

					nanent, indicate		If Tempora
Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	ry, pl. indicate the consolida ted amount paid (Rs./mon th)
1	Senior Scientist and Head	Dr. Ravindra Singh	Agricultural Extension	Rs. 38800- 67000	Rs. 9000/-	17-12-2018	
2	Subject Matter Specialist	Mr. Pandurang A. Kale	Agronomy	Rs. 16230- 39100	Rs. 5400/-	26-12-2018	
3	Subject Matter Specialist	Mr. Rajendra S. Waware	Soil Science	Rs. 16230- 39100	Rs. 5400/-	01-01-2019	
4	Subject Matter Specialist	Ms. Pratibha B. Thombare	Home Science	Rs. 15600- 39100	Rs. 5400/-	04-01-2019	
5	Subject Matter Specialist	Dr. Chandrakant V. Dhandore	Animal Science	Rs. 15600- 39100	Rs. 5400/-	10-01-2019	
6	Subject Matter Specialist	Dr. Parag D. Turkhade	Plant Protection	Rs. 15600- 39100	Rs. 5400/-	17-01-2019	
7	Subject Matter Specialist	Mr. Sunil Kumar	Agril. Extension	Rs. 15600- 39100	Rs. 5400/-	21-01-2019	
8	Programme Assistant	Mr. Vishvambhar H. Jadhav	GPP	Rs. 9300- 34800	Rs. 4200/-	01-11-2019	
9	Computer Programmer	Mr. Vitthal C. Muthal	Computer Science	Rs. 9300-	Rs. 4200/-	02-11-2019	

				34800			
10	Farm Manager	Mr. Somnath D. Gadade	M. Sc.	Rs. 9300- 34800	Rs. 4200/-	25-11-2019	-
11	Accountant/Superintende nt	Mr. Janagarajan Illayaraja	M.B.A. (Finance)	Rs. 9300- 34800	Rs. 4200/-	15-11-2019	
12	Stenographer	Mr. Vinayak D. Vanjari	B.A.	Rs. 5200- 20200	Rs. 2400/-	01-11-2019	
13	Driver 1	Mr. Bramhanand J. Khade	H.S.C.	Rs. 5200- 20200	Rs. 2000/-	01-11-2019	
14	Driver 2	Mr. Omkar R. Patil	H.S.C.	Rs. 5200- 20200	Rs. 2000/-	01-11-2019	
15	Supporting staff 1	Mr. Rohit N. Naik	H.S.C.	Rs. 5200- 20200	Rs. 1800/-	01-11-2019	
16	Supporting staff 2	Mr. Shubham H. Shinde	H.S.C.	Rs. 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	00.59

Infrastructural Development: Buildings 1.7

A)

			Stage					
S.		Course of		Complete			Incompl	ete
No.	Nomo of building	Source of funding	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)							
a	Dairy Unit							
b	Office							
c	Vermicompost Unit							
d	Nursery Unit							
e	Adarsh Nursery							
f	Medicinal Nursery							
g	Bio-fertilizer & Bio- pesticide Unit							
h	Soil Testing							
i	Sorghum processing Unit							
j	Goatry Unit							
k	Poultry Unit							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm go-down							
9	ICT lab							
10	Other							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
L.M.V. (Mahindra Bolero-SLE)	2019	793599	7303	Working
Tractor Kubota MAU 4501 (45 H.P.)	2020	626000		Working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Balram	2020	24000	Working

1.8 Details SAC meeting conducted in the year

Date	Name and Designation of Participants	Salient Recommendations	Action taken
22 January, 2020			

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise		
1	ugarcane 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

Sl. 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, Gaganbawada, Radhanagari, Panhala and Shahuwadi 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 Hatkanangale, Karveer, Radhanagari and some part of 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, Hatkanangale and Shirol 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
	Ghat Zone (Tahsils: 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 (Tahsils: 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, PH less than 7.00 Crops: Paddy, Nagli, Mango, Sapota	96006
2	Light red soils	Neutral, E C less than 1 mmhos/cm, PH = 7.00 Crops: Sugarcane, Paddy, Groundnut, Vegetables, Flowers, Livestock.	215882
3	Black soils	Alkaline, EC-2mmhos/cm, PH more than 7.00 Crops: Sugarcane, Paddy, Groundnut, Vegetables, Flowers, and Livestock.	227232

2.4. Area, Production and Productivity of major crops cultivated in the district (2019-20)

S. No	Crop	Area (ha)	Production (MT)	Productivity (qt/ha)
1	K. Sorghum			
2	Bajara			
3	K. Maize			
4	Other Kharip Cereals			
5	Pigeon pea			
6	Greengram			
7	Blackgram			
8	Other Kharip Pulses			
9	K. Groundnut			
10	K.Sunflower			
11	Seasamum			
12	Soybean			
13	Niger			
14	Other Oilseed			
15	Cotton			
16	Rabi Sorghum			
17	Wheat			
18	Rabi Maize			
19	Other cereals			
20	Chickpea			
21	Other pulses			
22	Safflower			
23	Linseed			
24	Sunflower			

Source: District agriculture department.

Fruit Crops

	Fruit Crops								
S. No	Crop	Area (ha)	Production (MT)	Productivity (MT./ha)					
1	Mango								
2	Sweet Orange								
3	Pomegranate								
4	Guava								
5	K. lime								
6	Sapota								
7	Banana								
8	Grape								
9	Orange								
10	Fig								
11	Aonla								
12	Muskmelon								
13	Watermelon								
14	Tamarind								
15	Jamun								
16	Coconut								
17	Papaya								
18	C.Apple								
19	Ber								
20	Other								

2.5. Weather data (2019)

Month	Doinfall (mm)	Rainy Days	Temperature 0 C		Relative Humidity (%)	
Month	Rainfall (mm)		Maximum	Minimum	Maximum	Minimum
Jan-2019	00	00	31	20	72.41	36.45
Feb-2019	00	00	34	22	70.85	34.10
March-2019	00	00	38	24	64.38	29.90
April-2019	00	00	40	25	65.00	45.43
May-2019	00	00	39	24	73.32	50.67
June-2019	243.3	243.3	32	24	81.06	58.76
July-2019	644.3	644.3	27	22	88.45	80.25
Aug-2019	833.2	833.2	26	21	86.96	81.09

Sep-2019	322.0	322.0	25	20	88.96	82.63
Oct-2019	240.4	240.4	28	21	88.12	78.80
Nov-2019	00	00	28	20	81.00	65.7
Dec-2019	00	00	28	19	79.06	66.32
Total	2283.1	2283.2	376	262	939.57	710.1

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

Category	Population	Production	Productivity
Cattle			
Crossbred	274080	26432011	5.99 ltr/day
Indigenous	70550	62100001	1.5 ltr/day
Buffalo	601380	340982460	4.07 ltr/day
Sheep			
Indigenous	142896	2657920	20 kg/year
Goats	159655	5295756	33.17 kg/year
Pigs	-	-	-
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	-	-	-
Poultry			
Hens	-	-	-
Desi	-	-	-
Category		Production (Q.)	Productivity
Fish (Reservoir)	-	-	-

2.7. Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Bhudar garh	Bhudarga rh	Bediv (Savatwa di)	Paddy Ragi Sugarcane Cashew nut Livestock	 Low yield of Sugarcane due to non-adoption of improved agronomic practices. Low productivity of ragi and paddy Unaware about use of bio fertilizers Pests and disease incidence in Paddy. Scarcity of fodder to livestock. Enterpreneurship development Low use of ICT tools 	 Improved agronomic practices for Sugarcane, Paddy and Ragi production Promotion of Integrated Nutrient Management Promotion of Organic forming Validation of IPM technologies in Paddy and Sugarcane crops. Fodder production technology. Scientific knowledge to establish small scale enterprises. Training and awareness programme for use of ICT

Karveer	Karveer	Shelkewa di	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 Integrated
Kagal	Kagal	Shendur	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 bioagents 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. 10. 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

Gadhin glaj	Gadhingl aj	Hanmant wadi	Soybean Groundnut Sorghum Chilli Chick pea Sugarcane Vegetables Livestock	 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 	3. Promotion of dry land technologies and in situ soil
Ajara	Ajara	Bhadvan wadi	Sugarcane Maize Soybean Paddy Ragi Livestock	 More use of local cultivar declines productivity Higher cost of production in sugarcane Low awareness about soil health management Imbalanced use of chemical fertilizers Cattle management Poor nutritional status of women Rural youth migration Lack of adoption of hi-tech and nursery techniques Lack of proper market infrastructure Lack of proper information on agriculture 	 Promotion of new cultivars in major agronomical crops Integrated nutrient management Promotion of soil test based fertilizers management Cattle management practices. To increase the nutritional status of women Training about hi tech agriculture and nursery management Training of farmer about use of ICT Awareness about new marketing structures and online
Chandg ad	Chandga d	Turkewad i	Sugarcane Paddy Cashew Potato Ragi Sweet potatoVegetabl es Livestock	 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 	 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. Discipline-wise priority thrust areas:

Sr. No.	Discipline	Priority thrust areas
	•	Cultivation of improved varieties of major agronomical crops
		Adaption of integrated crop management practices in major agronomical
		crops.
		Use of Integrated farming system.
1.	Agronomy	 Promotion of drip Irrigation system in Sugarcane.
	rigionomy	Promote the farmer towards organic farming.
		Development of entrepreneurs through seed production.
		Promotion of farm mechanization by using improved tools and implements.
		Weed management
		Promotion of soil test based Fertilizer Management practices
		Emphasis on nutrient use efficiency
		Adoption of Integrated nutrient management to maintain the fertility status of soil
		Introduction and promotion of organic farming
		Promotion of green manuring
		Introduction of biofertilizers e.g. Rhizobium, Azotobacter, Azospirillum,
2.	Soil Science	Blue green algae, Azolla & PSB for nutrient management
		Promotion of vermi composting
		Creation of awareness about identification & management of nutrient
		deficiency
		Awareness about fertigation & foliar spray of nutrient
		 Emphasis on Soil sampling, testing, & interpretation of result
		Promotion of Soil health management
		Increase productivity of the crops by using IPM and IDM technology
		Building judgment about selection of pesticides and pesticides
		formulations
3.	Plant Protection	To create awareness about importance of bio-agents, bio-pesticides,
		botanicals and allelochemicals for the pest management.
		Implementation of use of bio-pesticides, botanicals, light traps, sticky traps
		and pheromone traps.
		Awareness and entrepreneurship development in Mushroom Cultivation
		Promotion of fodder & seed production Notice of the Appendix
		Nutritional management in Cattle and Buffaloes
4	Animal Caiana	Promotion of back yard poultry Management of animals under drought situation
4.	Animal Science	Management of animals under drought situation Foto and Endo persoits control in livestock
		Ecto and Endo parasite control in livestock Conservation of green fodder, and treatment of green residues.
		 Conservation of green fodder and treatment of crop residues Management of diseases in livestock
		Unawareness about processing of fruits and vegetable H. State of the state of
		Unawareness about Protein Energy Malnutrition, among Pre-school whildren
_	Home Science	children • Anemia observed in farm women
5.	noine Science	
		Lack of awareness about family hygiene & improvement in nutritional health status.
		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
	Agricultural	To identify & use the potential crop/commodity leaders for efficient
6.	Extension	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	l hi-tech technologies
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- To provide on spot advocacy to the farmers
- To provide personalized mobile agro advisoy

3. TECHNICAL ACHIEVEMENTS 3.1. A. Details of target and achievements of mandatory activities

	Ol	FT		FLD				
	1	1		2				
Numl	ber of OFTs	s Number of farmers		Number of FLDs		Number of farmers		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
09	08	124	114	18	13	254	186	

	Trai	ining		Extension Programs					
		3		4					
Numb	er of Courses	Courses Number of Participants		Number	r of Programs	Number	of participants		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
68	79	1589	2971	301	302	2822	35378		
	Seed Production (qtl.)				Planting materials (Nos.)				
	5			6					
	Target	Ach	nievement	Target		Achievement			
	-		-		-		-		
Lives	tock, poultry strai	ns and finger	rlings (No.)	Bio-products (Kg)					
	,	7		8					
	Target	Achievement		Target		Ach	Achievement		
				-		-			

3.1. B. Operational areas details during 2019-20

3.1. 1		as details during 2019-20			
Sr.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	Proposed 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	Kogil (B), Shendur, Turkewadi & Bhadwanwadi	 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 multimicronutrient 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 10ensitive10 management	35000 ha area under Soybean crop	Shendur, & Hanmantwadi,	 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 KisanMela/ 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	Bediv & Bhadvanwadi	 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	Bhadvanwadi, Sawatwadi Turkewadi	 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	Hanmatwadi	 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	Kogil (B), Shendur, Turkewadi & Bhadwanwadi	 KisanMela 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	Kogil (B), Shendur, Turkewadi & Bhadwanwadi	 FLD on Management of Chick Pea Pod Borer, <i>H armigera</i> Training KisanMela Technology Mahotasav

					A Amil Eulibition
					Agril. Exhibition.Radio talk
					News articles.
8.	Tomato	Incidence of leaf curl virus and early blight on tomato	450 hectare area under Tomato crop	Kogil (B) Turkewadi & Bhadwanwadi	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	Shendur, Kogil (B)	 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	Hanmatwadi Turkewadi	 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%	Kogil (B), Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 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%	Kogil (B), Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 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%	Swatwadi, Turkewadi Hanamantwadi &Bhadwanwa di	 Assessment on Black Australorp breed Training KisanMela/ 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%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 Assessment on Use of Area specific mineral mixture Assessment on Use of Pro-biotic supplement FLD on Use of Protocols in Mastitis Management Training KisanMela/ 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%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 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%	Kogil (B), Hanamantwadi	 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&vitami n deficiency in found in some villages.	35%	Kogil (B), Swatwadi,	 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%	Kogil (B), Hanamantwadi Swatwadi,	 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%	Kogil (B),	 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. & APMC, Lack of awareness about climate change and its impact on Agriculture & Less use of Social media for effective sharing of Agricultural information Knowledge	65%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 Training Use of ICT/ Social Media Use Group discussion Radio talk 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%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 Training Use of ICT/ Social Media Use Group discussion Radio talk News coverage Field Visit
22.	Agro – processing Entrepreneurshi p Development	Less awareness about Electronic—National Agricultural Market. (e-NAM), Less motivation for Entrepreneurial development for Agri start up and Technology adoption	55%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 Training Use of ICT/ Social Media Use Group discussion Radio talk News coverage Field Visit
23.	Vermicompost farming	Soil infertility and high cultivation cost	35%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 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%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa	 Training Awareness campaign Group discussion Method demonstration Radio talk News coverage Field Visit
25.	Animal health management	Unawareness about Vaccination, de worming % infertility	70%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwa di	 Awareness campaign Group discussion Method demonstration Radio talk News coverage Field Visit

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

3.2. Technology Assessment

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

Thematic areas	Cereal s	Oilsee ds	Pulses	Commerci al Crops	Vegeta bles	Fruits	Flow er	Plantat ion crops	Tuber Crops	TOTA L
Varietal Evaluation	01									01
Integrated Nutrient Management	01									01
Drudgery reduction	01									01

Women & Child	01						01
Care							
Integrated Pest			01				01
Management							
Integrated Disease				01			01
Management							
Resource			01				01
Conservation							
Technology							
Total	04		02	01			07

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

Thematic areas	Cattle	Poultry	Piggery	Goatry	Fisheries	TOTAL
Evaluation of Breeds		01				01
Nutrition Management	01					01
Farm Machinery/Implements						
TOTAL	01	01				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 trail covering all the Technological Options)
Varietal Evaluation	Finger millet	To assess the new variety of finger millet Phule Nachni/ Dapoli-2 against local variety	01	15	03
Integrated Nutrient Management	Finger Millet	To study the effect of foliar spray 19:19:19 (2%) with INM in 14ensit millet.	15	15	0.20
Resource Conservation Technology	Sugarcane	To see the efficacy of waste decomposer on trash management in Ratoon Sugarcane in Shendur Village of kagal tahsil. (Ongoing)	10	10	0.20
Total					

B.2. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Total				

[1] Agronomy –Finger Millet C1.Results of Technologies Assessed

Crop/ enterp rise	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameters of assessment	Data on the paramete r	Results of assessment	Feedback from the farmer	Any refinement needed	Justifica tion for refinem ent
1	2	3	4	5	6	7	8	9	10	11	12
					T1: Local Variety	Plant Height (cm) Yield (q/ha.)	62 18	The performance assessment is satisfactory. The	1)The performance of		
				T2: Phule Plant Height of f	improved variety of finger millet	assessment is satisfactory					
		rigated due lodging of plant and old Nachni & variety. Dapoli-2		Nachni	Yield (q/ha.)	19.2	Dapoli- 2 found superior over	2)The improved variety of finger	Farmers require		
Finger	Irrigated		of finger millet Phule Nachni & Dapoli-2 against local	15		Plant Height (cm)	74.5	Phule nachni and local variety	millet Phule Nachni found	short duration, short height and high yielding varieties.	
Finger Millet					T3: Improved variety- Dapoli- 2	Yield (q/ha.)	22	yielded 22 qt. /ha grain production whereas the average height of plant recorded 74.5 cm as compare to Phule nachni (89 cm) and local variety (62 cm).	Nachni found superior over Dapoli-2 & local variety, yield increased by 25.0 % over local variety & 2.27 % over dapoli-2		No

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: Local Variety	MDVV Dahari	18	(q/ha.)	26000	2.37
T2: Phule Nachani	MPKV, Rahuri	22.5	(q/ha.)	37250	2.96
T3: Improved variety- Dapoli- 2		22	(q/ha.)	36000	2.89

- 1. **Title of technology assessed:** To assess the new variety of finger millet Phule Nachni & Dapoli-2 against local variety
- 2. **Problems definition:** Low yield of finger millet due lodging of plant and old variety.
- Detail of technologies selected for assessment:
 Phule Nachni- Maturity (days)-115-120, Avg. Yield- 20-22 qt./ha.,
 Dapoli-2- Maturity (days)-, 118-120 Avg. Yield- 25-27 qt./ha.,
- 4. Source of Technology: MPKV, Rahuri
- 5. **Production systems & thematic area:** Protective Irrigated and Varietal Evaluation
- 6. **Performance of the technology with performance indicators:** The performance assessment is satisfactory. The improved variety of finger millet Dapoli- 2 found superior over Phule nachni and local variety yielded 22 qt. /ha grain production whereas the average height of plant recorded 74.5 cm as compare to Phule nachni (89 cm) and local variety (62 cm).
- Feedback, matrix scoring of various technologies parameters done through farmer's participation/other scoring techniques: Achieved satisfactory yield but due to lodging problems it is difficult to harvest the crop.
- **8. Final recommendation for micro level situation**: Due lodging and heavy rainfall this variety is not suitable for this region.
- 9. Constraints identified and feed back for research: Observed lodging problem due to excess height and heavy rainfall.
- 10. Process of farmer's 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.

[2] Soil Science: Sugarcane C1.Results of Technologies Assessed

Crop/ enterp rise	Farmin g situatio n	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 refinemen t needed	Justificati on for refinemen t
1	2	3	4	5	6	7	8	9	10	11	12
Sugarca ne	Irrigated, Medium to deep black soils	Low productivity of Ratoon Sugarcane due to trash burning soil moisture is deficient and soil health is deteriorated.	To see the efficacy of waste decomposer on trash management in Ratoon Sugarcane.		T1: Farmers practice (Burning) T2: Technology assessed – Spray of waste Decomposer in 200 liters of water with 2 kg jaggary			Ongo	oing		

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					
	Ongoing									

- **1. Title of technology assessed:** To see the efficacy of waste decomposer on trash management in Ratoon Sugarcane
- **2. Problems definition:** Low productivity of Ratoon Sugarcane due to trash burning soil moisture is deficient and soil health is deteriorated
- 3. Detail of technologies selected for assessment:
 - T1: Farmers practice Burning of sugarcane trash.
 - T2: Technology assessed Spray of waste Decomposer in 200 liters of water with 2 kg Jaggery
- 4. Source of Technology: National Institute of Organic Farming, Ghaziabad
- 5. **Production systems & thematic area:** Soil fertility Management
- 6. Performance of the technology with performance indicators: Ongoing
- Feedback, matrix scoring of various technologies parameters done through farmer's participation/other scoring techniques.
- 8. Final recommendation for micro level situation:
- 9. Constraints identified and feed back for research:
- 10. Process of farmer's participation and their reaction:

[3] Soil Science – Finger Millet C1.Results of Technologies Assessed

Crop	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
					T1: Farmers	Yield (q/ha.)	17.45				
		Rain 2) Imbalanced (2%) and Integrated Nutrient		practice: No use of Fertilizers	No. of fingers (No. of fingers/ ear)	4.33	Spraying of 2%	Spraying of 2%			
Finger	Medium soil, Rain feed		condition. Imbalanced fortilizer condition. foliar spray of 19:19:19 (2%) and	spray 9:19:19 and rated ent gement ger	T2: Technology assessed 1.Application of RDF(45: 22.5:00 NPK kg/ha as per soil test value) 2. Spraying of 2 % 19:19:19 at pre flowering Stage.	Yield (q/ha.)	22.99	19:19:19 at pre flowering	19:19:19 at pre flowering Stage & INM in finger millet gives 31% more yield.	Nil	Nil
Millet	condition		Nutrient Management in Finger			No. of fingers (No. of fingers/ ear)	5.6	Stage & INM in finger millet gives 31% more yield			- v .

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 use of Fertilizers		17.45	q/ha.	21135	2.11
T2: Technology assessed 1.Application of RDF(45: 22.5:00 NPK kg/ha as per soil test value) 2. Spraying of 2 % 19:19:19 at pre flowering Stage.	MPKV, Rahuri	22.99	q/ha.	37500	2.88

- 1 Title of Technology Assessed: To study effect of foliar spray of 19:19:19 (2%) and Integrated Nutrient Management in Finger Millet
- **Problem Definition:1)** Low yield under rain feed condition.2) Imbalanced fertilizer management 3) No use of foliar spray by farmers
- 3 Details of technologies selected for assessment:
 - T1 : Farmers practice : No use of Fertilizers.
 - T2: Technology assessed: 1.Application of RDF(45: 22.5:00 NPK kg/ha as per soil test value) 2. Spraying of 2% 19:19:19 at pre flowering Stage
- 4 Source of technology: MPKV, Rahuri
- 5 Production system and thematic area: Integrated nutrient Management
- 6 Performance of the Technology with performance indicators:

Performance indicators	T1	T2
i) No. of fingers/ ear	4.33	5.6
ii) Production (q/ha)	17.45	22.99
iii) B:C ratio	2.11	2.88

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 balanced use of fertilizers in finger millet.
- They were not doing seed treatment with Azosprillum and PSB @ 25 grams/kg seed.
- Method of application of Azosprillum & PSB is very easy.
- The farmers understood that by INM & spraying of 2 % 19:19:19 in finger millet, there was 31 % yield improvement over control.

8 Final recommendation for micro level situation:

Foliar spray of 19:19:19 (2%) at pre flowering stage with INM in finger millet gave 31 % more yield over control, the technology should be popularized through .state Agril. Department by taking demonstration on large area as low productivity of finger millet has become a major problem

9 Constraints identified and feedback for research:

• Unavailability of biofertilizers of good count.

Feedback: Systematic research should be done to develop drought tolerant varieties of finger millet.

10 Process of farmers' participation and their reaction:

Village Bediv, Tal: Bhudargad was selected by KVK, Kolhapur- II as Focal village especially for conducting various activities of KVK. The bench mark Survey was conducted in the month of March 2019 on the basis of this survey low yield in Finger Millet 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 finger millet. Only 0.20 ha area was allotted to every farmer. A training programme on Production technology of finger millet with special reference to balanced use of fertilizer was conducted at village Bediv for OFT beneficiaries. They were given method demonstration on seed treatment with bio fertilizers—during training programme.. After sowing various observations pertaining to cost of cultivation, No. of fingers per ear, increase in yield per hectare and B:C Ratio were recorded with the help of farmers participation.

[4] Plant Protection: Sugarcane C1.Results of Technologies Assessed

Crop	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
					T1: Farmers practice Treatment with application of chemical insecticides like, Phorate 10G,	Clump Mortality (%)	T2 1 T2				
		Incidence of white	Management of		Chlorpyriphos 50 Ec, Fipronil + Imidacloprid, etc. T2: Technology assessed First application of		7.09	T2 and T3 found at par and found more effective as compared to	Easy method for application and getting		
Sugarcane	Irrigated	rrigated grub in sugarcane white grub in sugarcane	15	EPN, H. indica@7.5 kg per ha in the month of June Second need based application at 30-45 days after first application.	Yield (q/ha.	1116.8	T1 in response to per cent clump mortality and yield parameter.	satisfactory results against white grub	No	No	
					T3: Technology assessed- application of <i>Metarhizium</i> <i>anisopliae</i> @ 15 kg/ha.	Clump Mortality (%)	7.95				
						Yield (q/ha.	1100.60				

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Technology Assessed	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs.	BC Ratio
13	14	15	16	17	18
T1: Farmers practice Treatment with application of chemical insecticides like, Phorate 10G, Chlorpyriphos 50 Ec, Fipronil + Imidacloprid, etc		1089.5	q/ha.	181225	2.60
T2: Technology assessed First application of EPN, <i>H. indic</i> a@7.5 kg per ha in the month of June Second need based application at 30-45 days after first application.	MPKV, Rahuri	1116.8	q/ha.	190684	2.72
T2: Technology assessed Soil application of <i>Metarhizium anisopliae</i> @ 15 kg/ha.		1100.60	q/ha.	188200	2.71

- 1 Title of Technology Assessed: Application of Entomopathogenic Nematode, Heterorhabditis indica for the management of white grub in sugarcane
- **Problem Definition:** Incidence of white grub in sugarcane
- **Details of technologies selected for assessment:** Soil application of EPN, *H. indic*a@7.5 kg per ha. First in the month of June and Second need based application at 30-45 days after first application.
- 4 Source of technology: MPKV, Rahuri
- 5 **Production system and thematic area:** Protective irrigated and IPM.
- **Performance of the Technology with performance indicators:** Satisfactory, revealed less incidence of white grub as compared to farmers practices when it is applied at proper time by proper method.
- Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques: EPN has a potential to manage white grub when its applied at right time in the field but this year incidence of white grub was low therefore we are going to use this technology in next year because there no any residue of white grub observed in EPN treated plots.
- **Final recommendation for micro level situation:** EPN found suitable to manage white grub when it applied timely and scientifically. It is recommended in both Suru and Adsali sugarcane cultivation.
- Constraints identified and feedback for research: The incidence of white grub in the month of July was found but from the month of August to December there was negligible incidence of white grub due to heavy rainfall in Kolhapur district. Therefore, the results found at par with T1. Technology application is laborious in ratton and fallen sugarcane.
- Process of farmer's participation and their reaction: Problems identified during KVK's PRA survey Prioritized the problems- selection of village-selection of farmers in the presence of members of Agri. Committee of Grampanchayat chaired by Hon'ble Sarpanch-Conducted training programs-Conducted method demonstration on Application of EPN. Farmers Reaction: Unbiased selection of farmers. They assessed trial carefully and scientifically.

[5] Plant Protection: Tomato

C1.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
Tomato	Irrigated	Incidence of leaf curl virus and early blight on tomato	Assessment of Tomato hybrid Arka Rakshak/Arka Samrat for the management of tomato leaf curl virus, early blight and bacterial wilt		T1: Farmers practice— Cultivation of local varieties of tomato and indiscriminate use of pesticides T2: Technology assessed— Cultivation of Arka Rakshak /Arka Samrat	Bacterial wilt (%)	3.20 2.45 0.00 3.26 15.20 0.15 0.36	Assessed technology found superior over farmers practices and observed less disease incidence and higher average yield (20.97 t/ha) as compared to farmers practice (15.02 t/ha)	Hybrids have a potential to achieve good yield and also found resistance to leaf curl virus, early blight and bacterial wilt. Therefore reduced the disease management cost and got expected fruit	No	No
					hybrids of Tomato	White fly (No./leaf) Yield (qt/ha	1.25 20.97		yield		

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Technology Assessed	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
T1: Farmers practice—Cultivation of local varieties of tomato and indiscriminate use of pesticides	HUD David	15.20	ton	1.52 lakh Rs/ha	3.00
T2: Technology assessed- Cultivation of Arka Rakshak /Arka Samrat hybrids of Tomato	IIHR, Bengaluru	20.97	ton	2.43 lakh Rs./ha	4.40

- 1 Title of Technology Assessed: Assessment of Tomato hybrid Arka Rakshak/Arka Samrat for the management of tomato leaf curl virus, early blight and bacterial wilt.
- **Problem Definition:** Incidence of leaf curl virus and early blight on tomato
- 3 Details of technologies selected for assessment: Cultivation of Tomato hybrid Arka Rakshak which is resistance to tomato leaf curl virus, early blight and bacterial wilt.
- 4 Source of technology: IIHR, Bengaluru (Karnataka)
- 5 **Production system and thematic area:** Protective irrigated and IPM/IDM
- Performance of the Technology with performance indicators: Excellent, revealed very less percent disease incidence and achieved higher yield. In Assessment, farmers cultivated Tomato Arka Rakshak hybrid which is resistant to ToLCV, early blight and Bacterial wilt where as in farmers practice farmers taken Tomato variety UAS Agri 2638. In farmers practice higher disease intensity was observed as compared to assessed plots. Observation recorded for early blight, Tomato leaf curl virus and Bacterial wilt. It is observed that PDI of early blight was 15.20 in farmers practice where as 3.09 in Assessed practice. Per cent Tomato leaf curl virus was also recorded higher 4.23 in farmers practice where as 1.23 per cent in assessed practice. Similarly, the incidence of Bacterial wilt (1.96) was also observed higher in farmers practices as compared to assessed practice (0.53). The average fresh tomato fruit yield 20.97 ton per ha was recorded in assessed practices which was higher than farmers practice (15.20 ton/ha).
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Hybrids have a potential to achieve good yield and also found resistance to leaf curl virus, early blight and bacterial wilt. Therefore reduced the disease management cost and got expected fruit yield. Also reduce the pest management cost.
- 8 Final recommendation for micro level situation: Arka Rakshak variety of Tomato found suitable in Kolhapur location and recommended for cultivation
- Constraints identified and feedback for research: Availability of seeds of hybrid in local markets and most of the farmers purchased ready seedlings of any variety from nearest nursery.
- Process of farmer's participation and their reaction: Problems identified during KVK's PRA survey- prioritized problems selection of village-selection of farmers in the presence of members of Agri. Committee of Grampanchayat chaired by Hon'ble Sarpanch-conducted training programs- conducted method demonstration on raising of nursery and planting of seedlings. Farmers Reaction:- Unbiased selection and enthusiastically agreed to conduct trial of this new disease resistant hybrid.

[6] Animal Science: Poultry Management C1. Results of Technologies Assessed

Enterpri se	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the paramet er	Results of assessment	Feedback from the farmer	Any refine ment needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
		Evaluati on of production performan of Black Australorg breed of	gs & Australorp		T1: Farmers Practice –	Yield (kg/bird)	0.03				
					Rearing of local poultry breeds	Initial body weight (gram)	35			veight	
				13	T ₂ : Technology assessed - Rearing of	Final Body weight (gram)	1100	Result showed that performance of black australorp is very sturdy, high disease resistance power and low mortality rate as compared to desi bird	1) Body weight high		
Poultry						Egg production	85		2) lower the	No	Nil
Founty			poultry in			Yield (kg/bird)	0.04		mortlity rate	NO	INII
			poultry			Initial body weight (gram)	45		3) Easily sold at market.		
					improved poultry breed Black	Final Body weight (gram)	2700		27.00.		
					Australorp	Egg production	180				

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Technology Assessed	Source of Technology	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
T1: Farmers Practice –			
Rearing of local poultry		2260	1.35
breeds			
T ₂ : Technology assessed -	CPDO		
Rearing of improved		5800	1.47
poultry breed Black		3000	1.4/
Australorp			

- 1 Title of Technology Assessed: To assess the performance of Black Australorp breed of poultry in backyard poultry farming
- **Problem Definition:** Low eggs & meat production
- 3 Details of technologies selected for assessment: Performance of Black Australorp breed of poultry in backyard poultry farming
- 4 Source of technology: CPDO
- 5 **Production system and thematic area:** Poultry Management
- **Performance of the Technology with performance indicators:** Result showed that performance of black australorp is very sturdy, high disease resistance power and low mortality rate as compared to desi bird.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Very sturdy, high disease resistance power and low mortality rate as compared to desi bird.
- 8 Final recommendation for micro level situation: Black australorp breeds found high disease resistance power and lower percent of mortality
- 9 Constraints identified and feedback for research: Brooding is required for day old checks upto 21. Care and brooding management is very necessary.
- Process of farmers participation and their reaction: Problem identification Selection of village Selection of farmers Training Inputs distribution Diagnostic visit Observation taken. Farmers reaction: Eagerly adopted this technology because of very sturdy, high disease resistance power and low mortality rate of black austrolorp birds as compared to desi.

[7] Animal Science: Pro-biotics

C1. Results of Technologies Assessed

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
					T1: Farmers practice: No	Milk Yield (ltr/day/cow)	5.6		Easy handling		
					use of Pro- biotic	Fat (%)	3.32		to farmers, milk		
Dairy	Semi stall feeding	Low milk yield in CB	To study the effect of Probiotic on milk	13	T2:Improved	Milk Yield (ltr/day/cow)	6.14	Milk yield increased and Ruminal	27ensi increase, cost of	No	Nil
	management.	cows	production in CB cow		Technology:- Use of Pro- biotic 50 ml/(diluted M)/cow/day	Fat (%)	3.46	digestion improved	production is very low,Body coat of animal shiny		

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		5.6	(Ltr/day/cow)	43	1.10
T2:Improved Technology:-Use of Pro-biotic 50 ml/(diluted M)/cow/day	NDRI, Karnal	6.14	(Ltr/day/cow)	85	1.21

- 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 to the farmers, milk yield increased, cost of production is very low, Body coat of animal shiny.
- **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.

- Process of farmers participation and their reaction: Problem identification Selection of village Selection of farmers Training Inputs distribution Diagnostic visit Observation taken Farmers reaction: Eagerly adopted, Milk yield increased and Ruminal digestion improved
- [8] Home Science: Super Grain Bags
- C1. Results of Technologies Assessed

Crop/ enterpris e	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the paramete r	Results of assessment	Feedback from the farmer	Any refineme nt needed	Justific ation for refinem ent
Jowar	-	Pest infestation damages the quality of grains	the effect of Super Grain Bags to		T1: Farmers Practice – Use of Gunny bags (Jute bags) T2: Technology assess – Use of Super Grain Bag	Pest infestation per kg in grains weight Pest infestation per kg in grains weight	Grain damage 11.13 % Grain damage 2.55 %	Result shown that 2.55% pest infestation in assessed practice against 11.13% of infestation in traditional practice, also increase shelf life up to one year in assessed practice where 6 month in regular method	Enhance grain life in a much safer and it is pesticide free. Low cost technology, easily available, reusable andcan use for multi grain purpose	No	No

- 1 Title of Technology Assessed: To assess the effect of Super Grain Bags to prevent store grain pests during storage
- 2 Problem Identification: Pest infestation damages the quality of grains & Fluctuation in moisture content due to change in temperature spoilage grains during storage
- 3 Details of technologies selected for assessment: Use of super grain bags for grain storage.
- 4 Source of technology: PCI, Ltd, Pune
- 5 Production system and thematic area: Drudgery Reduction
- **Performance of the Technology with performance indicators:** Result shown that 2.55% pest infestation in assessed practice against 11.13% of infestation in traditional practice, also increase shelf life up to one year in assessed practice where 6 month in regular method.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Enhance grain life in a much safer and it is pesticide free. Low cost technology, easily available, reusable and can use for multi grain purpose.
- **8** Final recommendation for micro level situation: Use of supergrain bags for grain storage reduced grain losses and pest infestation.
- **Constraints identified and feedback for research: :** It should be available in the local market and should be available in the different sizes to store grain according to according to grain quantity.
- Process of farmers participation and their reaction: Selection of village Problem identification selection of farm women training input distribution demonstration data collection.

[9] Home Science: Nutrition Security C1. Results of Technologies Assessed

Crop/ enterprise	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parame ter	Results of assessment	Feedback from the farmer	Any refinem ent needed	Justification for refinement
1	To study the Nutritional efficiency deficiency & of protein	3	T1: Farmers practice: Regular diet	Average Weight Gain (kg/Child/90 days)	1.2	Increased weight and Mid Upper Arm	All the row materials are easily available at local level & Method of preparation of Soya nuts is very easy. Farm woman's was	11	12		
Soybean	-	Low body Weight in pre-school children	energy rich food for Malnutrition pre-school children	15	T2: Improved technology: Soya Nuts 25gm/day(2 Month)	Average Weight Gain (kg/Child/90 days)	2.9	Circumference 0.5cm by using improved technology	happy for the soya nuts available in their own house and now they realized that Soya nuts are very nutritious, children are like to consume these soya nuts.	No	No

- 1. Title of Technology Assessed: To study the efficiency of protein energy rich food for Malnutrition pre-school children
- 2. **Problem Identification:** Nutritional deficiency & Low body Weight in pre-school children
- 3. Details of technologies selected for assessment: Use of soyanuts for weight gain.
- 4. Source of technology: VNMAU, Parbhani
- 5. Production system and thematic area: Women and Child care
- **6. Performance of the Technology with performance indicators:** Result shown that within a 90 days 2.92 kg weight increased in improved technology against 0.5 kg weight increased in traditional practice and also increase the Mid Upper Arm Circumference 0.5cm by using improved technology.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: All the row materials are easily available at local level & Method of preparation of Soya nuts is very easy. Farm woman's was happy for the soya nuts available in their own house and now they realized that Soya nuts are very nutritious, children are like to consume these soya nuts.
- **8. Final recommendation for micro level situation:** It is beneficial to preschool children's who has low body weight. It helps to increase the body weight of preschool children's hence it is needed to give more focus on daily use of soya nuts in the rural areas.
- 9. Constraints identified and feedback for research: No
- **10. Process of farmers participation and their reaction:** Selection of village Problem identification Selection of Anganwadi selection of preschoolchildren's training input distribution demonstration data collection.

Action photographs of OFT

On Farm Testings (OFTs)

Improved crop management technologies in finger millet







Management of White grub in Sugarcane

Black Australorp breed of backyard poultry





Super Grain Bags to prevent store grain pests during storage



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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 2019-20 and recommended

for large scale adoption in the district

S	Crop/				spr	izontal ead of nology	
N O	N Enterpr c Area*		Technology demonstrated	Details of popularization methods suggested to the Extension system	No. of village s	No. of far mer s	Area in ha
1	Soybean	Variety Introduc tion	To improve productivity of Soybean by using improved variety Phule Sangam (KDS- 726)	Training and demonstration	4	43	21
2	Paddy	IPM	Management of Yellow Stem Bore and Brown Plant Hopper in Paddy	Training & Demonstration	3	47	29
3	Brinjal	IPM	Management of Brinjal Shoot and Fruit Borer	Training & Demonstration	2	38	21
4	Chili	IPM	Management of Chili leaf curl	Training & Demonstration	3	57	34
5							
6							
8							
_ 8							

B. Details of FLDs implemented during 2019-20 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

S 1. N o.	Crop	Themati c area	Technology Demonstrated	Season and year	Area	(ha)	fa	No. of armers onstra	/	Reasons for shortfall in achieve ment
					pose d	Act ual	SC/ ST	her s	ot al	
1	Soybean	Variety Introdu ction	To improve productivity of Soybean by using improved variety Phule Sangam (KDS- 726)	Kharif 2020	4.8	4.65	0	14	14	Due to less land holdin g capaci ty of farme r in our distric t.

S 1. N	1. Crop Ther	Themati c area	Technology Demonstrated	Season and year	Area	(ha)	fa	No. of armers onstra	Reasons for shortfall in achieve ment	
0.					Pro pose d	Act ual	SC/ ST	Ot her s	T ot al	
2	Paddy	Variety Introducti on	To improve productivity of Rice by using improved variety Phule Samrudhi	Kharif 2020	2.60	3.35	0	13	13	Nil
3	Sorghum	Variety Introducti on	Use of improved variety of Rabi sorghum phule Revti against local variety	Rabi 2020	5.2	6	0	15	15	Nil
4	Sugarcane	Integrate d Nutrient Mangem ent	To improve productivity of Sugarcane by adaption suitable plant spacing and INM on the basis on soil testing	Rabi 2020	5.2	3.8	0	13	13	Due to less land holdin g capaci ty of farme r in our distric t.
5	Paddy	IPM	Management of Yellow Stem Borer and BPH in Paddy	Kharif	3.00	3.00	03	12	15	Nil
6	Brinjal	IPM	Management of Brinjal Shoot and Fruit Borer, <i>Luesinodes</i> orbonalis	Rabi	1.50	1.50	00	15	15	Nil
7	Chili	IPM	Management of leaf curl, thrips and whitefly in chili	Rabi	1.50	1.50	00	15	15	Nil

Details of farming situation

		ig situation		Stat	tus of s	oil				Seaso	No.
Cro p	Seas on	Farming situation (RF/Irriga ted)	So il ty pe	N	P	K	Previ ous crop	Sowing date	Harv est date	nal rainfa ll (mm)	of rai ny day s
Soybe an	Kharif 2020	Irrigated	Mediu m black				Gram	15 June	Sep. end		
Paddy	Kharif 2020	Irrigated	Mediu m black				Sugarcane		Mid. Oct		
Sorghu m	Rabi 2020	Irrigated	Mediu m black				Soybean	Sep. end	Jan. end		
Sugarca ne	Rabi 2020	Irrigated	Mediu m black				Soybean	Nov – Dec.			
Paddy	Kharif	RF	Red laterite	L	М	Н	Paddy	(Date of seedling Transplanting)20-30. June 2019	15-30 Oct. 2019		
Brinjal	Rabi	Irrigated	Light soil	L	M	Н	Soybean	(Date of seedling	05-15 March,		

								Transplanting)10-20, Dec. 19	2020	
Chili	Rabi	Irrigated	Light soil	L	М	Н	Soybean	(Date of seedling Transplanting)15-30, Jan. 2020	20-30 March, 2020	

Technical Feedback on the demonstrated technologies

S. No	Feed Back
	Due to use of improved variety Phule Sangam (KDS-726) increase the yield 28.86 % was
Soybean	observed as compared to local variety.
Soybean	Average number of pods 95 per plant & number of branches more than other variety.
	This variety is bold seeded, high yielding and resistance to rust disease.
	Due to use of improved variety Phule Samrudhi increase the yield 25.00 % was observed as
Paddy	compared to local variety.
1 addy	This improved variety moderately resistant for bacterial leaf blight, blast & stem borer.
	Its scented rice & having more number of tillers.
	Due to use of improved variety Phule Revti increase the yield 34.19 % was observed as
	compared to local variety.
Sorghum	This variety is good responsible to protective irrigation & fertilizer.
	This variety is resistance to stem borer & leaf spot disease.
	This variety is bold seeded, high yielding and used for fodder purpose.
Sugarcane	This demonstration is on going
	Clipping of tips of seedlings at the time of transplanting found very useful to check the
	population of stem borer as well as the per cent dead heart.
1 (Paddy)	Farmers who follow the spray of NSE on the basis of moth catches in pheromone traps, they got
	low incidence of dead heart and white ears.
	Alternate wet and dry condition also checked BPH populations.
	Periodical release of Trichocards having a potential to reduce population of Brinjal Shoot and
	Fruit Borers and also observed the less per cent shoot damage and fruit damage.
2 (Brinjal)	Farmers who follow the spray of NSE on the basis of moth catches in pheromone traps also
2 (Billijai)	contributed to check the BSFB damage.
	Field sanitation and destroying of BSFB damage plant parts is very important to prevent
	carrying over population of BSFB.
3 (Chili)	Barrier crops like maize, bajra or sorghum found the great role to prevent the entry and
	migration of sucking pests like thrips, whiteflies and mites.
	Sticky traps (Yellow and Blue) also contributed to check the thrips and whitefly population and
	also useful to monitor pest and to make decision on use of control measure i.e. spray of
	insecticides.
	If atmospheric humidity is high i.e. above 60%, the efficacy of Verticillium lecanii is found
	promising.

Farmers' reactions on specific technologies

S. No	Feed Back
Couboon	Average number of pods 95 per plant & number of branches more than other variety.
Soybean	This variety is bold seeded, high yielding and resistance to rust disease.
Paddy	This improved variety moderately resistant for bacterial leaf blight, blast & stem borer.
raddy	Its scented rice & having more number of tillers.
	This variety is good responsible to protective irrigation & fertilizer.
Sorghum	This variety is resistance to stem borer & leaf spot disease.
	This variety is bold seeded, high yielding and used for fodder purpose.
	Pheromone trap is a good tool to monitor pest and on that basis the spray of NSE gave
1 (Paddy)	good results.
1 (Faddy)	Alternate wet and dry condition is little laborious but BPH populations found less as
	compared to other
	Periodical release of Trichocards is easy and effective technology to reduce the per cent
2 (Brinjal)	shoot damage and fruit damage.
	Use of pheromone traps also effective tool for insecticide spray management against

	BSFB
3 (Chili)	IPM is a best method for pest management in chili and reduced management cost.

Extension and Training activities under FLD

No. Activity No. of activities organized Date of particip ants	Exte	Extension and Training activities under FLD							
1		Activity		Date	of particip	Remarks			
2	1	Field days							
3 1 1 1 11.10.2019 20									
4									
5 6 6 7 7 8 9 9 9 9 9 9 9 9 9		1	1	11.10.2019	20				
6									
7 8 9 9 9 9 9 9 9 9 9	-								
S 9									
9 10 11 11 12 13 14 15 15 15 15 15 15 15									
10									
11 2 Farmers Training									
Integrated crop management in Paddy									
Integrated crop management in Paddy		Farmers Training							
management in Paddy 13 13 13 13 13 14 15 15 15 15 15 15 15				30/05/2019					
Improved crop management technologies in finger millet		management in	01						
management technologies in finger millet 27					13				
technologies in finger millet				03/06/2019					
Soybean			01						
Integrated crop management in Soybean			~ -		27				
Management in Soybean				06/11/2010	27				
Soybean 14			01	06/11/2019					
Integrated weed management in sugarcane 28			01		14				
management in sugarcane				23/7/2019	1-7				
Sugarcane 28			01	23/1/2019					
Integrated crop management in Sugarcane					28				
Sugarcane 88									
Integrated Farming System 12/09/2019 47 Improved crop 9/10/219 15 Organic farming 01 18/11/2019 68 Integrated crop 31/12/2019 13 Integrated crop management in 01 Sugarcane 13 Integrated Management of Pests of Soybean Integrated Management of White grub inn Sugarcane 10 30.07.2019 16 Integrated Pest Management in 01 26.08.2019 76 Integrated Pest Management in 01 13.11.2019 12			01						
System					88				
Improved crop			01	12/09/2019					
management technologies in Rabi Sorghum				0/10/010	47				
technologies in Rabi Sorghum Organic farming OI 18/11/2019 68 Integrated crop management in Sugarcane Integrated Management of Pests of Soybean Integrated Management of White grub inn Sugarcane Integrated Pest Management in Sugarcane Integrated Pest Management in Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in Paddy Integrated Pest Management in OI 13.11.2019 12				9/10/219					
Sorghum			01						
Organic farming 01 18/11/2019 68 Integrated crop management in Sugarcane 01 31/12/2019 Integrated Management of Pests of Soybean 01 30.07.2019 11 Integrated Management of White grub inn Sugarcane 01 30.07.2019 16 Integrated Pest Management in Paddy 01 26.08.2019 76 Integrated Pest Management in 01 13.11.2019 12					15				
Integrated crop management in Sugarcane			01	18/11/2019					
management in Sugarcane Integrated Management of Pests of Soybean Integrated Management of White grub inn Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in O1 26.08.2019 13 11 30.07.2019 16 30.07.2019 16 26.08.2019 76 Paddy Integrated Pest Management in O1 13.11.2019 12			<u> </u>						
Integrated Management of Pests of Soybean Integrated Management of White grub inn Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in O1 Integrated Pest Management in			01						
Management of Pests of Soybean					13				
of Soybean Integrated Management of White grub inn Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in O1 26.08.2019 76 Paddy Integrated Pest Management in O1 13.11.2019 12									
Integrated Management of White grub inn Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in O1 26.08.2019 76 Paddy Integrated Pest Management in O1 13.11.2019 12			01	30.07.2019	11				
Management of White grub inn Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in O1 26.08.2019 76 Paddy Integrated Pest Management in O1 13.11.2019 12									
White grub inn Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in O1 26.08.2019 76 Paddy Integrated Pest Management in O1 13.11.2019 12									
Sugarcane Integrated Pest Management in Paddy Integrated Pest Management in 01 26.08.2019 76 Paddy Integrated Pest Management in 01 13.11.2019 12			01	30.07.2019	16				
Integrated Pest Management in Paddy Integrated Pest Management in 01 26.08.2019 76 Paddy Integrated Pest Management in 01 13.11.2019 12									
Management in Paddy 01 26.08.2019 76 Integrated Pest Management in 01 13.11.2019 12									
Paddy Integrated Pest Management in 01 13.11.2019 12			01	26.08.2019	76				
Integrated Pest Management in 01 13.11.2019 12			01	20.00.2017	, ,				
Management in 01 13.11.2019 12									
Brinial		Management in	01	13.11.2019	12				
~~~~jm		Brinjal							

Sl. No.	Activity	No. of activities organized	Date	Number of particip ants	Remarks
	Integrated Management of Pests of Chili	01	20.11.2019	19	
	Awareness about Safely handling of pesticides	01	08.01.2020	32	
3	Media coverage				
4	Training for extension functionaries				
		01	15.05.2019	50	Training on Management of White grub in Sugarcane and FAW in Maize.

### C. Performance of Frontline demonstrations

Frontline demonstration on Cereals crops **Economics of Economics of check** Yield (q/ha) Data on demonstration (Rs./ha) (Rs./ha) % Are technology No. of parameter Varie BC Themati Demo Gros BC Gros a Increa Gros Net Crop demonstra **Farme Parameter** Net c Area (ha se in R R Che Gross ty  $\mathbf{S}$ S Retu ted Demo Retu rs Lo Avera LC High ck yield Cost Retu  $(\mathbf{R}/$ Retu (**R**/ Cost n ge rn rn C) C) rn rn To improve productivit y of Rice Phule Varietal No. of 3.3 by using 12-1320 8200 5000 9600 4600 16-17 2.64 1.92 13 75 50000 Rice evaluatio Samr Tillers/Plan 55 60 48 25 improved 13 0 00 0 0 n uddhi variety Phule Samrudhi Use of improved variety of Variety Rabi Plant 210-Sorghu Phule 195-9135 6015 3120 6807 3687 19.4 2.92 Introducti 6 30 34.19 31200 2.18 sorghum 15 Height 20 26.1 200 Revti 215 0 5 m Phule Revti (cm) on against local variety % Dead 3.38 5.69 Manageme Heart nt of Integrate 5670 % white d Pest Yellow 42.8 9520 2.47 3905 9220 5315 3.0 56.8 48.5 38500 Indra 4.98 6.95 50.11 3.25 15 9/-2.36 Rice ears 7/-Stem Borer yani 9/-7/-Manage and BPH in ment **BPH** 0.29 0.51 Paddy (No. / hill)

Frontline demonstration on Oil Seed crops

		technology		No of	Are		Data paran				l (q/ha)		%		Econon Instrati			Eco	nomics (Rs./		
Crop	Themati c Area	demonstrat ed	Varie ty	Farme rs	a (ha )	Parameter	Demo n	LC	High	Lo w	Avera ge	Che ck	Increa se in yield	Gross Cost	Gros s Retu rn	Net Retu rn	BC R (R/ C)	Gros s Cost	Gros s Retu rn	Net Retu rn	BC R (R/ C)
		To improve productivity				No. of pods/plant	110- 115	80- 85													
Soybean	Varietal evaluatio	improved	Phule Sanga m	14	4.6	No. of branches /plant	6-7	4-5	35	20	26.3	21.4	28.86	30000	6575	3575 0	2.19	3000	5102 5	2102 5	1.70
	n	variety Phule Sangam (KDS-726)	(KDS -726)			Plant height (cm)	78.9	59.6				_			·	-		·		_	
Soybean	Integrate d Nutrient Manage ment	To improve productivity of Soybean by using liquid biofertilizers formulation as a seed treatment and STBF management	MAU S 158	15	6.0	No. of pods/ plant	81.4	59.0 6			23.92	18.9	26.02	30000	7176 0	4176 0	2.39	2500 0	4596 0	2096 0	1.84

FLD on Other crops

	Thema	Name of	No.	Are		Yie	ld (q/ha)		% Chan		Para	her meter s	den		mics of tion (Rs.	/ha)	E	conomic (Rs.	s of che /ha)	ck
Category	tic	the	of	a		Den	10		ge in	Parame			Gro	Gros	NT 4	BC	Gro	Gros	NT 4	BC
& Crop	Area	technolog y	Farm ers	(ha)	Hig h	Lo w	Avera ge	Che ck	Yield	ter	De mo	Che ck	ss Cos t	s Retu rn	Net Retu rn	R (R/ C)	ss Cos t	s Retu rn	Net Retu rn	R (R/ C)
Sugarcane	Integra ted Crop Manag ement	To improve productivi ty of sugarcane by adaption suitable plant spacing and INM on the basis on soil testing	13	3.8					o	ngoing (St	arted i	n the m	onth of	f Decen	nber 201	9)				
Sugarcane	Integra ted Nutrien t Manag ement	Use of Acetobact or, PSB and multi- micro and macro nutrient for improvem ent of fertilizer use efficiency on growth and yield of Suru Sugarcane	14	5.6					o	ngoing (Sta	arted i	n the m	onth of	' Noven	nber 201	9)				
Sugarcane		Sugarcane	13	5.2					O	ngoing (St	arted i	n the m	onth of	Decen	<u>ıber</u> 201	9)				

		crop residues manageme nt for improvem ent of soil health																		
Vegetables	T	T	T				T			T	1	ı	ı		1	ı	ı		1	
	Integra ted Pest	Managem ent of			124	19	150.0	106		Thrips (no/leaf )	0.48	1.05	756	20.55	2200		022	2525	1002	
Chilli Green	and Diseas e Manag ement	Leaf curl and thrips in chili	15	1.5	124 .32	19 7.3 6	153.2	136. 26	12.47	Per cent leaf curl plant	7.25	9.26	756 30	3065	2308 70	4.05	832 60	2725 20	1892 60	3.27
Brinjal	Integra ted Pest	Managem ent of Brinjal Shoot and	15	1.5	210	30 7.2	270.5	240.	9.27	% Shoot Damage	5.62	10.2 6	55,4	3,25,	2,70,	5.88	57,5	2,98,	2,40,	5.18
	Manag ement	Fruit Borer, L. Orbonalis	13	1.5	.19	3	2	67	9.21	% Fruit Damage	9.16	19.2 6	00/-	920/-	520/-	3.00	00/-	260/-	760/-	3.16
Fodder Cro	ps																			
Naiper	Fodder Crops	Demonstr ation of hybrid nepier variety Phule Gunwant	13	2	134 7	11 59	1253	1115	12.38	No. Of Cutting s	5	3	6739 4	1127 43	4534 9	1.67	6100 0	9740 0	3640 0	1.59
Fodder Sorghum	Fodder Crops	Introducti on of Multi cut Sorghum COFS -29 in irrigated area in Kharif Season	13	2								Ongo	ing							

## **FLD on Livestock**

		Name of the			Ma	jor	%	Ot	her		Econor			Ec	onomics		ck
Category	Thematic area	technology	No. of	No. of	paran	neters	change	parai	meter	de	monstra	ation (R	s.)		(R	s.)	
Category		demonstrated	Farmer	Units	Demo	Check	in major parameter	Demo	Check		Gross Return	Net Return			Gross Return	Net Return	BCR (R/C)
Animal				Cows		<b>Yield</b> mal/Day)			<b>at</b> 6)								
Pandharpuri Buffalo	Animal Nutrition Management	Use of area specific mineral mixture	13	13	8.4	7.5	12.00	6.5	6.0	930	1275	345	1.37	820	1060	240	1.29
HF cross breed cow	Disease Management	Use of protocol in mastitis management	13	13	8.9	7.9	12.66	4.7	4.3	730	1020	290	1.39	720	870	150	1.20
Sheep & Goat																	

## FLD on Fisheries –

Cotogony	Thematic	Name of the	No. of	No.of	Major pa	arameters		Oth paran		Econo	omics of o		ration	E	conomics (R	k
Category	area	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return		Gross Cost	Gross Return	BCR (R/C)
Common Carps																
Carps																

FLD on Other enterprises

~	Name of the	No. of	No.of	Major p	oaramet	ers	% change		her meter		mics of one (Rs.) or					s of chec Rs./unit	
Category	technology demonstrated	Farmer	units	Parameters	Demo	Check	in major parameter	•		Gross	Gross	Net	BCR	Gross	Gross		BCR

# **FLD on Women Empowerment**

Category	Name of technology	No. of demonstrations	Technology Demonstrated	Name of observations	Data on Parameter
				Work output	46.66
			T1: Farmers Practices	Time Saving	26.66
Drudgery	Soybean Mitten	15		Physical injury	13.33
Reduction	Soybean whiten	13	T2: Technology assess – Use of	Work output	53.33
			soybean mittens	Time Saving	73.33
			soybean mittens	Physical injury	86.66
				Output (hr/person)	35
			T1: Farmers Practice	Cleaning (%)	80
Drudgery	Spiral Separator	15		Splits (%)	5
Reduction	Spiral Separator	13	T2: Technology assess – Use of	Output (hr/person)	200
			Spiral Separator	Cleaning (%)	94
			Spiral Separator	Splits (%)	0.5
				Time required for Milking (rating)	Moderate: 100%
			T1: Farmers Practice	Discomfort during milking (rating)	Severe : 93.33
Drudgery	Million Charles Charl	15		Pain frequency (rating)	Always: 80 %
Reduction	Milking Stool & Stand	15	TO To be less than 1	Time required for milking	Less duration:80%
			T2: Technology assess – Use of milking stool and stand	Discomfort during milking (rating)	Very mild:86.66 %
				Pain frequency (rating)	Never: 93.33
				Capacity (kg/ Batch)	
			T1: Farmers practice:	Moisture content	
			No value addition in Vegetables	Temperature	
			No value addition in vegetables	Drying Time ( per	
Value Addition	Solar Dryer	15		Batch)	Ongoing
value Addition	Solai Diyel	13		Capacity (kg/ Batch)	Ongoing
			T2: Improved technology	Moisture content	]
			Solar Dehydration of vegetables	Temperature	]
				Drying Time ( per	
				Batch)	

#### FLD on Farm Implements and Machinery

Name of the	Crop	Technology	No. of	Area	Major	(outpu	servation ut/man ur)	% change in	Labor	reducti	on (man	days)	(Rs./		ductior Rs./Unit	
implement	Стор	demonstrate d	Farmer	(ha)	parameters	Demo	Check	major parame ter	Land prepa ration	Sowi ng	Weedi ng	Total	Land prepar ation	Labo ur	Irrig ation	Total

FLD on Other Enterprise: Kitchen Gardening

Catego		_	No. of Farme	No. of	Yield (Kg	g/month)	% change	increas 3 m	level se after onth g/dl)	Econo	mics of o	lemonst /ha)	ration	Ec	conomics (Rs./		k
and Cr	p area	demonstrat ed	r	Units	Demons ration	Check	in yield	Demo	Check	Gross Cost	Gross Retur n	Net Retur n	BCR (R/C)	Gross Cost	Gross Return	Net Retur n	BCR (R/C

#### FLD on Demonstration details on crop hybrids

D. Performance of Cluster Frontline Demonstrations (C0-FLD)

CFLD on Oilseed crops (2019)

_																			
	<b>C</b>	Thematic	technology	<b>3</b> 7• - 4	No. of	Area		Yie	ld (q/ha)		%	Econo		demonstr ./ha)	ation	E		s of check /ha)	k
	Crop	Area	demonstrated	Variety	Farmers	(ha)		Dem	10	Chash	in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
							High	Low	Average	Check	iii yieid	Cost	Return	Return	( <b>R</b> / <b>C</b> )	Cost	Return	Return	( <b>R</b> / <b>C</b> )
Γ																			

CFLD on Pulse crops (2019)

<b>C</b>	Thematic	Technology	¥7	No. of	Area		Yie	eld (q/ha)		%	Econo		demonstr /ha)	ation	E		s of chec ./ha)	k
Crop	Area	demonstrated	Variety	Farmers	(ha)		Den		Check	Increase in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average	CHECK	iii yiciu	Cost	Return	Return	( <b>R</b> / <b>C</b> )	Cost	Return	Return	( <b>R</b> / <b>C</b> )

# **Action photographs of FLD**

#### Frontline Demonstrations (FLDs)

Improved Soybean variety of Phule Sangam (KDS-726)

Improved rice variety of Phule Samrudhi





Management of yellow Stem Borer and Brown plant Hoppers in Paddy

Demonstration of hybrid Napier variety Phule Gunwant





Yield improvement in Soybean by using biofertilizers as a Seed treatment & INM.

Drudgery reduction through soybean mittens





# 3.4. Training Programs

Farmers' Training including sponsored training programs (on campus)

Farmers' Training in	cluaing sp	onsore	ı training	prograi		ampus) Participan	te			
Thematic area	No. of		Others			SC/ST	1.5		Grand Tot	al
Thematic area	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production		1,14,10	1 0111010	1000	1,10,10	1 0111010	1000	1,10,10	2 022410	20002
Weed Management										
Resource										
Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	01	47	00	47	00	00	00	47	00	47
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop	03	40	2	42	00	00	00	40	02	42
Management	03	40	2	42	00	00	00	40	02	42
Soil & water										
conservation			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	
Integrated nutrient	-									
management					<u> </u>					
Production of	-									
organic inputs										
Others (pl specify)										
Total	4	87	2	89	0	0	0	87	2	89
II Horticulture										
a) Vegetable Crops										
Production of low										
value and high										
volume 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										

731	ı		T		1	I			I	
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 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)										
GT (a-g)										
III Soil Health and										
Fertility										
Management										
Soil fertility								_		
management	04	110	0	110	4	0	4	114	0	114
Integrated water										
management	<u> </u>		<u> </u>	1	l	l			<u> </u>	

	1	1		1	1	ı	1	1	1	
Integrated Nutrient	02	48	0	48	03	0	03	51	0	51
Management	02	70	O	70	03	U	03	31	U	31
Production and use										
of organic inputs										
Management of										
Problematic soils										
Micro nutrient										
deficiency in crops										
Nutrient Use										
Efficiency										
Balance use of										
fertilizers										
Soil and Water										
Testing										
Others (pl specify)										
Resource			_		_	_	_		_	
Conservation	01	19	0	19	0	0	0	19	0	19
Technologies										
Total	7	177	0	177	7	0	7	184	0	184
IV Livestock	,	1//	U	1//	,	U	,	104	U	104
Production and										
Management		10		10	-			22		22
Dairy Management	1	19	0	19	3	0	3	22	0	22
Poultry Management										
Piggery										
Management										
Rabbit Management										
Animal Nutrition		2.1	_	22	_		_	22	_	2.5
Management	1	21	2	23	2	1	3	23	3	26
Disease										
Management	1	81	0	81	5	0	5	86	0	86
Feed & fodder										
technology										
Production of										
quality animal										
products										
Others (Goat										
management)										
Total	3	121	2	123	10	1	11	131	3	134
V Home										
Science/Women										
empowerment										
Household food										
security by kitchen										
gardening and										
nutrition gardening										
Design and		1								
development of										
low/minimum cost										
diet										
		<del>                                     </del>								
Designing and										
development for										
high nutrient										
efficiency diet		<u> </u>								
Minimization of										
nutrient loss in										
processing										
Processing and										]
cooking										1
Gender										
mainstreaming										
through SHGs										
		1			1		1		l	1

C4 1	1	1			1	1	1	I		
Storage loss										
minimization										
techniques		0	10	25		0		0	1.0	25
Value addition	1	8	19	27	0	0	0	8	19	27
Women										
empowerment										
Location specific										
drudgery reduction										
technologies										
Rural Crafts										
Women and child										
care										
Others (pl specify)										
Total	1	8	19	27	0	0	0	8	19	27
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										
Integrated Disease										
Management										
Bio-control of pests										
and diseases	1	18	4	22	8	0	8	26	4	30
Production of bio										
control agents and										
bio pesticides										
Others (Safe										
handling and use of										
agro chemicals)										
Others (Seed										
treatment)										
Total	1	18	4	22	8	0	8	26	4	30
VIII Fisheries	1	10	7	22	U	U	U	20		30
Integrated fish					<del>                                     </del>					
farming										
Carp breeding and					-					
hatchery										
management										
Carp fry and					<del>                                     </del>					
Carp iry and		I	1	l .	1	l	l		<u> </u>	

C 1'		l			1	l	l			
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	<u> </u>	<u> </u>		<u></u>		<u> </u>	<u> </u>	<u></u>		
Production of										
livestock feed and										
fodder	<u> </u>	<u> </u>		<u></u>		<u> </u>	<u> </u>	<u></u>		
Production of Fish										
feed							<u> </u>			
Mushroom										
Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity										
Building and										
Group Dynamics										
Leadership	4	1.	_	1.	_	_	_	10	_	10
development	1	16	0	16	2	0	2	18	0	18
Group dynamics										
Formation and										
Management of										
SHGs										
Annual Progress Rene	l	L			1	i	l			40

Mobilization of										
social capital										
Entrepreneurial										
development of										
farmers/youths										
WTO and IPR issues										
Others (Community										
service provider)										
Total	1	16	0	16	2	0	2	18	0	18
XI Agro-forestry										
Production										
technologies										
Nursery										
management										
Integrated Farming										
Systems										
Others (pl specify)										
Total										
GRAND TOTAL	17	427	27	454	27	1	28	454	28	482

Farmers' Training including sponsored training programs (Off Campus)

Farmers' Training in	icluding sp	onsore	l training	prograi			4			
(TD) 4.*	No. of		041		P	articipan	ts		3 1 700 4	•
Thematic area	courses	3.5.1	Others	- T	3.5.3	SC/ST	- T		Frand Tot	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	0.4	0.0		• •	0.0	0.0				
Weed Management	01	09	19	28	00	00	00	09	19	28
Resource										
Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop	03	95	33	128	00	00	00	95	33	128
Management	03	93	33	120	00	00	00	93	33	120
Soil & water										
conservation										
Integrated nutrient										
management										
Production of	01	24	44	68	00	00	00	24	64	68
organic inputs	01	24	77	00	00	00	00	24	0+	00
Others (Soil										
sampling techniques										
and use of soil										
health card)										
Total	5	128	96	224	0	0	0	128	96	224
II Horticulture										
a) Vegetable Crops										
Production of low										
value and high										
volume crops										
Off-season										
vegetables										
Nursery raising										
Exotic vegetables										
Export potential										
vegetables										

					1		
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							
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 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							
			1	<u> </u>		<u> </u>	

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) GT (a-g)										
III Soil Health and										
Fertility										
Management										
Soil fertility	0.1	40	0	40	4	0	4	50	0	50
management	01	48	0	48	4	0	4	52	0	52
Integrated water										
management										
Integrated Nutrient	03	63	14	77	0	0	0	63	14	77
Management	03	0.5	1,4	/ /	U	U	U	0.5	14	, ,
Production and use	01	18	0	18	0	0	0	18	0	18
of organic inputs	01	10	Ů	10	Ů	-		10	-	10
Management of										
Problematic soils										
Micro nutrient										
deficiency in crops Nutrient Use										
Efficiency										
Balance use of										
fertilizers										
Soil and Water										
Testing										
Others (pl specify)										
Total	5	129	14	143	4	0	4	133	14	147
IV Livestock										
Production and										
Management										
Dairy Management	2	34	6	40	5	2	7	39	8	47
Poultry Management										
Piggery										
Management										
Rabbit Management										
Animal Nutrition										
Management Disease										
Management	1	16	0	16	3	0	3	19	0	19
Feed & fodder		<del>                                     </del>								
technology	2	40	3	43	5	0	5	45	3	48
Production of										
quality animal										
products										
Others (Goat										
management)										
Total	5	90	9	99	13	2	15	103	11	114
V Home										
Science/Women										
empowerment										
Household food	1	72	14	86	1	1	2	73	15	88

			1		1					
security by kitchen										
gardening and										
nutrition gardening										
Design and										
development of										
low/minimum cost										
diet										
Designing and										
development for										
high nutrient										
efficiency diet										
Minimization of										
nutrient loss in	1	19	57	76	0	0	0	19	57	76
	1	19	37	70	U	U	U	19	37	70
processing										
Processing and										
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques										
Value addition	1	0	13	13	0	0	0	0	13	13
Women										
empowerment										
Location specific										
	1	0	20	20	0	0	0	0	20	20
drudgery reduction	1	U	20	20	U	U	U	U	20	20
technologies										
Rural Crafts										
Women and child	2	6	30	36	4	19	23	10	49	59
care	2	0	30	30	4	19	23	10	49	39
Others (pl specify)										
Others (pl specify)	6	97	134	231	5	20	25	102	154	256
Total	6	97	134	231	5	20	25	102	154	256
Total VI Agril.	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation systems	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small	6	97	134	231	5	20	25	102	154	256
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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	6	97	134	231	5	20	25	102	154	256
Total 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)	6	97	134	231	5	20	25	102	154	256
Total 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) Use of small	6	97	134	231	5	20	25	102	154	256
Total 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) Use of small agriculture tools &	6	97	134	231	5	20	25	102	154	256
Total 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) Use of small	6	97	134	231	5	20	25	102	154	256
Total 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) Use of small agriculture tools & implements	6	97	134	231	5	20	25	102	154	256
Total 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) Use of small agriculture tools & implements Total	6	97	134	231	5	20	25	102	154	256
Total 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) Use of small agriculture tools & implements	6	97	134	231	5	20	25	102	154	256

T 1D		1		l		ı	l	1	l	
Integrated Pest Management	7	108	57	165	15	0	15	123	57	180
Integrated Disease Management	1	12	7	19	0	0	0	12	7	19
Bio-control of pests										
and diseases										
Production of bio										
control agents and										
bio pesticides										
(Safe handling and										
use of agro										
chemicals)										
Others (Seed										
treatment)	-									
Total	8	120	64	184	15	0	15	135	64	199
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		1								
Bio-agents		<u> </u>								
production										
Bio-pesticides										1
production										
Bio-fertilizer										1
production										
Vermi-compost										
		1								
production		1								
Organic manures										
production	<u></u>	<u> </u>			<u></u>	<u> </u>	<u> </u>			<u> </u>
Production of fry	-		-							
and fingerlings		1								
Production of Bee-										1
1 Todaction of Bcc-		1						]		

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	1	17	7	24	4	0	4	21	7	28
Formation and	1	1 /	/	24	4	U	4	21	/	26
Management of	1	28	0	28	6	0	6	34	0	34
SHGs	1	20	U	20	U	U	U	34	U	34
Mobilization of										
social capital										
Entrepreneurial										
development of	1	27	0	27	0	0	0	27	0	27
farmers/youths	1	21	U	21	U	U	0	21	U	27
WTO and IPR issues										
Others (pl specify)										
contract farming	4	79	38	117	8	6	14	87	44	131
Total	07	148	45	196	18	06	24	169	51	220
XI Agro-forestry	07	140	-10	170	10	00		107	<u> </u>	220
Production										
technologies										
Nursery										
management				ļ						
Integrated Farming										
Systems Others (pl specify)				1						
Total										
GRAND TOTAL	36	715	362	1077	55	28	83	770	390	1160

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

	No. of				P	Participant	ts			
Thematic area			Others			SC/ST		G	rand Tota	al
	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	01	09	19	28	00	00	00	09	19	28
Resource										
Conservation										
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	01	47	00	47	00	00	00	47	00	47
Micro										
Irrigation/irrigation										

Seed production								1	1	
•										
Nursery										
management										
Integrated Crop	06	135	35	170	00	00	00	135	35	170
Management										
Soil & water										
conservation										
Integrated nutrient										
management										
Production of	01	24	44	68	00	00	00	24	44	68
organic inputs										
Others (pl specify)										
Total	9	215	98	313	0	0	0	215	98	313
II Horticulture										
a) Vegetable Crops										
Production of low										
value and high										
volume crops										
Off-season										
vegetables										
Nursery raising										
Exotic vegetables										
Export potential										
vegetables										
Grading and										
standardization										
Protective										
cultivation										
Others (Soil										
sampling techniques										
and use of soil										
health card)										
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								1		
Others (pl specify)										
Total (b)										
c) Ornamental										
Plants										
Nursery				1						
Management										
Management of										
potted plants										
Export potential of						<u> </u>				
ornamental plants										
ornamentar piants					<u>l</u>	<u> </u>	<u>l</u>	<u> </u>		

	I		I			ı	l	l		1
Propagation										1
techniques of										1
Ornamental Plants										1
Others (pl specify)										
Total ( c)										
d) Plantation crops										
Production and										
Management										1
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)										
GT (a-g)										
III Soil Health and										
Fertility										
Management										
Soil fertility	_		_		_	_	_		_	
management	5	158	0	158	8	0	8	166	0	166
Integrated water									<del> </del>	
management										
Integrated Nutrient		1								
	05	111	14	125	03	0	03	114	14	128
Management										
Production and use	01	18	0	18	0	0	0	18	0	18
of organic inputs									<u> </u>	
Management of										
Problematic soils										
Micro nutrient										
deficiency in crops										
Nutrient Use										
Efficiency										
Balance use of										
fertilizers										
	1	1	1	1	1	1	1	1		

C. T 1 W			l	1	l	l		l		
Soil and Water	1	27	0	27	0	0	0	27	0	27
Testing										
Others (pl specify)										
Resource	01	19	0	19	0	0	0	19	0	19
Conservation										
Technologies	10	222	1.4	2.45	44		4.4	244	1.1	250
Total	13	333	14	347	11	0	11	344	14	358
IV Livestock										
Production and										
Management	3	53	6	59	8	2	10	61	8	69
Dairy Management	3	33	0	39	8		10	01	8	09
Poultry										
Management										
Piggery Management										
Rabbit Management										
Animal Nutrition										
Management	1	21	2	23	2	1	3	23	3	26
Disease										
Management	2	97	0	97	8	0	8	105	0	105
Feed & fodder				1						
technology	2	40	3	43	5	0	5	45	3	48
Production of										
quality animal										
products										
Others (Goat										
management)										
Total	8	211	11	222	23	3	26	234	14	248
V Home										
Science/Women										
empowerment										
Household food										
security by kitchen	1	72	14	86	1	1	2	73	15	88
gardening and	1	12	14	80	1	1	2	13	13	00
nutrition gardening										
Design and										
development of										
low/minimum cost										
diet										
Designing and										
development for										
high nutrient										
efficiency diet  Minimization of										
nutrient loss in	1	19	57	76	0	0	0	10	57	76
	1	19	57	76	0	0	0	19	57	76
processing Processing and										
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques										
Value addition	2	8	32	40	0	0	0	8	32	40
Women		1								
empowerment										
Location specific										
drudgery reduction	1	0	20	20	0	0	0	0	20	20
technologies										
Rural Crafts										
Women and child	2	6	30	36	4	19	23	10	49	59
L		•	•	•	•	•	•			

care										
Others (pl specify)										
Total	7	105	153	258	5	20	25	110	173	283
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)Energy &										
water conservation										
in agriculture										
pumping										
Total										
VII Plant Protection										
Integrated Pest										
Management	7	108	57	165	15	0	15	123	57	180
Integrated Disease										
Management	1	12	7	19	0	0	0	12	7	19
Bio-control of pests										
and diseases	1	18	4	22	8	0	8	26	4	30
Production of bio										
control agents and										
bio pesticides										
(Safe handling and										
use of agro										
chemicals)										
Others (Seed										
treatment)										
Total	9	138	68	206	23	0	23	161	68	229
VIII Fisheries										
Integrated fish										
farming										
Carp breeding and										
hatchery										
management		1			<del>                                     </del>			1		1
Carp fry and										
fingerling rearing Composite fish										
culture										
Hatchery		1			-			-		1
management and										
culture of freshwater										
prawn										
P-41111		L	I	1	<u> </u>	I	<u> </u>	L		L

	1		1	ı	1	1	1	1		
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										
		+							<del>                                     </del>	
Leadership	1	16	0	16	2	0	2	18	0	18
development										
Group dynamics	1	17	7	24	4	0	4	21	7	28
Formation and										
Management of	1	28	0	28	6	0	6	34	0	34
SHGs	-					-	] -			
Mobilization of		+								
social capital	4	25		25				25		
Entrepreneurial	1	27	0	27	0	0	0	27	0	27
development of										
farmers/youths										

WTO and IPR	1	27	0	27	0	0	0	27	0	27
issues										
Others (Community	4	79	38	117	8	6	14	87	44	131
Service Provider)	4	19	36	11/	0	U	14	07	44	131
Total	08	167	45	212	20	06	26	187	51	238
XI Agro-forestry										
Production										
technologies										
Nursery										
management										
Integrated Farming										
Systems										
Others (pl specify)										
Total										
GRAND TOTAL	54	1169	389	1558	82	29	111	1251	418	1669

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

Training for Rural Youths including spe	onsorea	trainin	g pro	grams (			in at-			
			Sener	ol .	NO. 01	Partic SC/ST	ipants	Cno	nd T	Cotol
	No.			ai		30/31		Gra	na 1 F	otai
Area of training	of	N/ 1	Fe	TD. 4		т.	TD 4	N/ 1	e	
	Cour ses	Mal e	m al	Tota l	Ma   le	Fem ale	Tot al	Mal e	m	Total
	SCS		e	•	ıc	aic	aı		a	
Sugarcane Nursery Management	01	23	0	23	0	0	0	23	<b>le</b> 0	23
Training and pruning of orchards	01	23	0	23	0	0	0	23	U	23
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	1	19	0	19	0	0	0	19	0	19
Production of organic inputs	1	17		1)				1)	J	1)
Planting material production										
Vermi-culture	1	18	0	18	0	0	0	18	0	18
Mushroom Production	1	11	0	11	5	2	7	16	2	18
Bee-keeping	1	11	0	11	3		,	10		10
Sericulture										
Repair and maintenance of farm										
machinery and implements										
Value addition	4	0	79	79	0	1	1	0	8	80
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	36	2	38	2	0	2	38	2	40
Sheep and goat rearing	1	32	3	35	7	1	8	39	4	43
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	39	2	41	6	2	8	45	4	49
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										

Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Soil testing through STFR										
Community service provider										
Entrepreneurship development	02	55	0	55	14	0	14	69	0	69
TOTAL	13	233	86	319	34	6	40	267	92	359

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

Training for Kurar Fouris including sp	No.   No. of Participants											
Area of training			Genera				<u> </u>		rand To	tal		
Area of training	Cour	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot		
N. M. CII.	ses	le	ale	al	le	ale	al	le	ale	al		
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 (please specify)												
Entrepreneurship development	1	23	0	23	0	0	0	23	0	23		
TOTAL	1	22	Λ	22	0	0	Λ.	22	0	22		
TOTAL	1	23	0	23	0	0	0	23	0	23		

Training for Rural Youths including sponsored training programs – Consolidated (On+Off campus)

Training for Kurai Toutils including sp	No.   No. of Participants									
	of	(	Genera		10.01	SC/ST	pants	Gra	nd To	tal
Area of training	Co		Fe		3.4		TD 4		Fe	
	urs	Mal e	ma	Tota 1	Ma le	Fem ale	Tot al	Male	ma	Tot al
	es		le	-					le	
Sugarcane Nursery Management	01	23	0	23	0	0	0	23	0	23
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	1	19	0	19	0	0	0	19	0	19
Production of organic inputs										
Planting material production										
Vermiculture	1	18	0	18	0	0	0	18	0	18
Mushroom Production	1	11	0	11	5	2	7	16	2	18
Bee-keeping										
Sericulture										
Repair and maintenance of farm										
machinery and implements										
Value addition	4	0	79	79	0	1	1	0	80	80
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	36	2	38	2	0	2	38	2	40
Sheep and goat rearing	1	32	3	35	7	1	8	39	4	43
Quail farming										
Piggery										
Rabbit farming										
Poultry production	1	39	2	41	6	2	8	45	4	49
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Soil testing through STFR										
Community service provider										
Entrepreneurship development	03	78	0	78	14	0	14	92	0	92
TOTAL	14	279	86	365	34	6	40	313	92	382

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

Training programs for Extension Person	No. of Participants Of General SC/ST Grand Total										
			Gener						and To		
Area of training	Cour ses	Mal e	Fe ma le	Total	Ma le	Fem ale	T ot al	Mal e	Fe mal e	Tot al	
Productivity enhancement in field crops											
Integrated Pest Management	1	43	7	50	0	0	0	43	7	50	
Integrated Nutrient management											
Rejuvenation of old orchards											
Protected cultivation technology											
Production and use of organic inputs	1	31	2	33	0	0	0	31	2	33	
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	02	<b>60</b>	0.2	70	_	0	_	60	0.2	70	
organization	02	68	02	70	0	0	0	68	02	70	
Information networking among farmers											
Capacity building for ICT application											
Management in farm animals											
Livestock feed and fodder production											
Household food security											
Any other contingency planning, PRA											
techniques											
Seed production technology	1	33	2	35	0	0	0	33	2	35	
Climate change and its effect on											
agriculture											
Micro irrigation system											
Agriculture para vet womens & para vet	1	17	3	20	2	1	3	19	4	23	
training	1	1/	3	20	2	1	3	19	4	23	
Post harvest technology and value addition	2	75	1	76	3	0	3	78	1	79	
Soil Health Management	1	35	2	37	0	0	0	35	2	37	
TOTAL	9	302	19	321	5	1	6	307	20	327	

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

	No.				No. o	f Partic	ipants	;		
Area of training	of		Genera	1		SC/ST		Gı	and To	tal
Tire of truming	Cour	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot
	ses	le	ale	al	le	ale	al	le	ale	al
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		·				

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

	No.			N	lo. of	Particij	pants			
	of	G	Seneral			SC/ST		Gra	nd To	otal
Area of training	Co urs es	Male	Fe mal e	Tot al	Ma le	Fem ale	To tal	Mal e	Fe m al e	Tot al
Productivity enhancement in field crops										
Integrated Pest Management	1	43	7	50	0	0	0	43	7	50
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	1	31	2	33	0	0	0	31	2	33
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	02	68	02	70	0	0	0	68	02	70
organization	02	00	02	70	U	U	U	08	02	70
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other contingency planning, PRA										
techniques										
Seed production technology	1	33	2	35	0	0	0	33	2	35
Climate change and its effect on										
agriculture										
Micro irrigation system										
Agriculture para vet womens & para vet	1	17	3	20	2	1	3	19	4	23

	No.	No. of Participants										
	of	01				SC/ST			Grand Total			
Area of training	Co urs es	Male	Fe mal e	Tot al	Ma le	Fem ale	To tal	Mal e	Fe m al e	Tot al		
training												
Post harvest technology and value addition	2	75	1	76	3	0	3	78	1	79		
Soil Health Management	1	35	2	37	0	0	0	35	2	37		
TOTAL	9	302	19	321	5	1	6	307	20	327		

Sponsored training programs		No. of Participants									
	No. of		<u> </u>		No. of		ipants		1.75	4.1	
Area of training	Course		General		3.4	SC/ST	TD 4		rand To		
	s	Ma le	Fem ale	Tot al	Ma le	Fem ale	Tot al	Ma le	Fem ale	Tot al	
Crop production and			5325			5325			5525		
management											
Increasing production and											
productivity of crops											
Commercial production of	1	2.4	2	27		2	0	20	~	25	
vegetables	1	24	3	27	6	2	8	30	5	35	
Production and value addition											
Fruit Plants											
Ornamental plants											
Spices crops											
Soil health and fertility											
management											
Production of Inputs at site											
Methods of protective cultivation											
Quality seed grower											
Sericulturist											
Total	1	24	3	27	6	2	8	30	5	35	
Post harvest technology and											
value addition											
Processing and value addition											
Others (pl. specify)											
Total											
Farm machinery											
Farm machinery, tools and											
implements											
Others (pl. specify) Energy											
conservation											
Total											
Livestock and fisheries											
Livestock production and											
management											
Animal Nutrition Management											
Animal Disease Management											
Fisheries Nutrition											
Fisheries Management											
Others (pl. specify)											
Total											

	NIC	No. of Participants									
Area of training	No. of Course		General		SC/ST			<b>Grand Total</b>			
Area of training	S	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot	
	3	le	ale	al	le	ale	al	le	ale	al	
Home Science											
Household nutritional security											
Economic empowerment of											
women											
Drudgery reduction of women											
Others (pl. specify)											
Total											
Agricultural Extension											
Capacity Building and Group											
Dynamics											
Community service provider											
Total											
GRAND TOTAL	1	24	3	27	6	2	8	30	5	35	

Details of vocational training programs carried out by KVKs for rural youth										
	No.				No. of	Participa	ants			
Area of training	of		General			SC/ST		G	rand To	tal
<b>wg</b>	Cour ses	Male	Femal e	Total	Male	Fema le	Total	Mal e	Fema le	Total
Crop production and										
management										
Commercial floriculture										
Commercial fruit										
production										
Commercial vegetable										
production										
Integrated crop										
management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology										
and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (Animal feed)										
Total										
Income generation										
activities										
Vermicomposting										
Production of bio-agents,										
bio-pesticides,										

bio-fertilizers etc.					
Repair and maintenance					
of farm machinery					
and implements					
Rural Crafts					
Seed production					
Sericulture					
Mushroom cultivation					
Nursery, grafting etc.					
Tailoring, stitching,					
embroidery, dying etc.					
Agril. Para-workers,					
para-vet training					
Others (pl. specify)					
Total					
Agricultural Extension					
Capacity building and					
group dynamics					
Others (pl. specify)					
Total					
<b>Grand Total</b>					

# Details of trainings organized under ASCI

Area of training No. Of		General				SC/ST		Grand total			
Area of training	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Quality seed											
grower											
Sericulturist											
Community											
service provider											

# **Action photographs of Trainings**

Training for practicing farmers/Rural Youth/Extension Functionaries **Integrated Farming System Integrated Weed Management** Management of Yellow Stem Borer and Brown plant Farmers Training on Awareness on Safely Handling **Hoppers in Paddy** of Pesticides Care & management of animal during rainy season Nutritional management in cow, buffalo Sheep & Goat

#### Training for practicing farmers/Rural Youth/Extension Functionaries

Training programme on minimization of nutrient loss during cooking

Training programme on Nutrition Garden





**Integrated Nutrient Management in major Rabi crops** 

Farmers Training on Soil health management in organic farming





Awareness training on Mandate and functioning of **KVK** 

Farmer Producer Company: Need of the hour





3.5. Extension Programs

Activities	No. of programs	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	99	31019	32	31051
Diagnostic visits	12	46	12	58
Field Day	11	195	08	203
Group discussions	12	168	20	188
Kisan Ghosthi	29	564	23	587
Mahila Goshthi	00	00	00	00
Film Show	00	00	00	00
Self –help groups	00	00	00	00
Kisan Mela	00	00	00	00
Exhibition	00	00	00	00
Scientists' visit to farmers field	105	343	17	360
Soil testing & soil health camp	01	39	01	40
Plant/animal health camps	03	188	02	190
Farm Science Club	00	00	00	0
Ex-trainees Sammelan	00	00	00	0
Farmers' seminar/workshop	04	281	00	281
Method Demonstrations	10	201	10	211
Celebration of important days	05	255	02	257
Special day celebration	01	24	00	24
Exposure visits	00	00	00	00
Others (Educational tour)	00	00	00	00
Lecture delivered	07	218	09	227
Video Show	00	00	00	00
Agro Tourism	00	00	00	00
Swachha Bharat Mission Activity	02	679	00	679
Gram Swaraj Abhiyan	00	00	00	00
Kisan Kalyan Karaykram	00	00	00	00
Mahashramdan (Water Cup competition)	00	00	00	00
Other (Innovative farmers meet)	01	1158	35	1193
Total	302	35378	171	35549

# **Details of other extension programs**

Particulars Particulars	Number
Electronic Media (CD./DVD)	00
Extension Literature (Article-1, HandBook-1/Poster-1/Folder-2, Newsletter-01, Book Chapter-01)	06
Newspaper coverage	21
Popular articles	14
Radio Talks	01
TV Talks	00
Animal Health Camps (Number of animals treated)	830
Others (pl. specify)	
Live telecast of Pradhan Mantri Kisan Samman Nidhi Yojana	102
Launching and live telecast of National Animal Disease Control Programme	85
Total	1059

# **Extension Activities**

## Field Days

Production of New variety of Soybean: Phule Sangam | Production of New variety of Rice: Phule Samrudhi





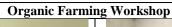
Soybean Mittens

Management of Yellow Stem Borer and BPH in Paddy





# **Extension Activities**







Campaigns

White grub campaign





Human health check up camp

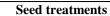


White Grub campaign



# METHOD DEMONSTRATION

# Soil sampling







Use of light traps for pest management

Preparation of spray solution for pest management





## **Group Discussion**

Use of Bio Fertilizers, Integrated farming system SHG formation, Goat farming, Integrated pest management

Value Addition, Integrated Weed system, Disease management in animal & Mobile apps for information





**Important Days Celebrations** 

World Soil Day, 25 December, 2019

National Farmers Day 23 December, 2019







National Milk Day 26 November, 2019

National Constitution Day 26th November,19





# Live Telecast PRADHAN MANTRI KISAN SAMMAN NIDHI YOJANA



Fertilizer awareness program



National Animal Disease Control Programme





# **Publications**



## 3.6. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals					
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others					
Total					

Production of planting materials by the KVK

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits						
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)	Value (Rs.)	No. of Farmers
Bio Fertilizers	PSB			
	Rhizobium			
	Azatobacter			
Bio-pesticide	Paceilomyces			
Bio-fungicide	Trichoderma			
	Pseudomonas			
Total				

#### **Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Goat)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

## Production of small agril. Tools & Tractor services

Particulars	Production (No.)	Sold (No.)	Services (No.)	Value (Rs.)	No. of Farmers
Luxmi sickle					
Vaibhav sickle					
Khurpi					
Maize sheller					
Spiral separator					
Tractor					
Total					

#### 4. LITERATURE DEVELOPED/PUBLISHED (with full title, author & reference)

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

B. Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports			
News letters			
Technical bulletins			
Popular articles			
Extension			
literature			
Others (Posters)			
TOTAL			

C. Details of Electronic Media Produced - NIL

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

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).

#### SUCCESS STORY: VERMICOMPOST TO EARNING



Name: Mrs. Rupali Mali

Place: Kasba sangaw, Tal. Kagal, District: Kolhapur,

**Age:** 34

Education: M.A. (Sociology) Landholding: 2.5 Acres Contact number: 8888255221

- 11. Situation analysis/Problem statement: In the early years, there were problems related to dung in the preparation of 80ensit compost. We had to bring dung from the outside and make fertilizer. Due to lack of technical information, the unprotected dung was hit. The number of earthworms was not the same. But when she realized the partially roasted dung was useful, he started using it. She also reduced the height of the beds. Prioritized the net woven beds. Each year new problems arise. Learning from it has stabilized this business.
- 2. Plan, Implement and Support: She initially started 80ensit compost for supplying into her farm. She used it for own cultivation. Initially had a few sales for remaining 80ensit compost, but the number of customers continued to grow, and thenshe began to produce large quantities of Vermi compost fertilizer. At present, 80ensit compost is produced through eight beds. Initially, the business was started by bringing in earthworm cultureprovided by the ZillaParishad funded by the Khadi Village Industries Corporation. About Rs 09 lakhs were provided for this business. In the meanwhile, they came in contact with the Shri Siddhagiri, Krishi Vigyan Kendra, Kaneri in Kolhapur district and its way of practicing organic farming and got different information on 80ensit-compost making and use of proper cattle breeds especially indigenous breeds in organic fertilizers preparation. She is the one of the representative of female farmer in the Advisory Committee of the Shri Siddhagiri, Krishi Vigyan Kendra, Kaneri-Kolhapur. Apart from this, she provides guidance on organic farming, earthworm production through training in various places. Today, she is preparing 80ensit compost from the mixture of lemonade, karanipand, organic fertilizers and bacterial fertilizer etc. Are also made. They have also been successful in increasing the number of customers for their fertilizers today. The business, which was started with eight animal dung, has now expanded. In the coming years, the emphasis is on the consumption of dungs of indigenous cows. Sales and planning are done through telephone and physical contact. She is supplying to both domestic and nursery customers.

- **3. Output:** Mrs. Rupali mali is earning more than rupees 50000/year from vermicompost. She is doing drumstick cultivation too for getting extra income. In addition to 81ensit compost preparation, she also prepares 500-600 litres of vermiwash. Vermi culture is selling at 400 rupees per kilo. The quality of each product is taken into consideration. This has created a consumer class of these products. These products are demanded by the nursery operators, orchards, vegetable growers, grape growers.
- **4. Outcome**: Convincing about your products how they are useful to farmers is main challenge. This led to demonstrations in his field. This helped to gain the trust of the consumer including farmers. Apart from this, business growth is also done through contact with the farmers through mobile, exhibitions and stalls. From time to time, the quality of fertilizers and their constituents is monitored and tested by the laboratory. Thereby, consumers can be assurance of quality products is been given.
- **5. Impact**: she is giving jobs to 06 rural women. She has got various awards for her practices. She is member of SHG and training to other women farmers.

#### Costs and returns from production and sale of vermicompost

(Rs/ton)

	Particulars	Rs.
Production (	Cost (A)	5500
Marketing C	Cost (B)	
1.	Standardization	250
2.	Packing	50
3⋅	Loading and Unloading	42
4.	Transport	102
5.	Storage	20
6.	Labour	50
7•	Miscellaneous	10
Price realize	ed per ton I	12000
Net returns	per ton (C-B-A)	5976
Additionally		
Vermiwash (Rs/lit) for 600 litre		24000
Vermi culture (in 2.5 months) for 8 vermi beds produced 12-15 kg		4800
Total Net in	ncome	42776

#### **Photographs**



Annual Pr







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
1			

# 5.1. INDICATE THE SPECIFIC TRAINING NEED ANALYSIS TOOLS/METHODOLOGY FOLLOWED FOR

#### A. Practicing Farmers

- a) Problem identified/ Job description
- b) Questionnaire
- c) Observations

#### **B. Rural Youth**

- a) Ouestionnaire
- b) Observations

#### C. In-service personnel

- a) Job description
- b) Observations
- c) Present need/requirements

# **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) Other if any

#### For FLD:

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

## **5.3** Field activities

(i) Name of villages adopted/identified with block

Sr. No.	Name of village	Block	Year
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

(ii) No. of farm families selected per villages

Sr. No.	Name of village	Block	Farm families selected
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21	_		
22	_		

(iii) No. of survey/PRA conducted:

(iv) No. of technologies taken to the adopted villages

Sr. No.	Name of village	Technology taken to Village
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

(	v	Name of	f technologies	found su	itable by	the farmers	of the adopted	l villages

Technology taken to Village		

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

Name of technology		Productivity qt/ha		ncome ./ha	Impact of technology
	T ₁	T ₂	T ₁	T ₂	
	1				
	1				
		ļ			

^{*-} Kg cocoon/100 DFL

^{#-} time in min./ 300 lit water from 1 km distance

Sr.	Cronl	Technology	Horizor	ital spread of tec	hnology
No	Crop/ Enterprise	demonstrated	No. Of villages	No. Of farmers	Area in ha

(vii) Constraints if any in the continued application of these improved technologies.

Sr. No.	Crop technology/Enterprise	Constraints
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

- ii. No. of farm families selected per village :
- iii. No. of survey/PRA conducted
- iv. No. of technologies taken to the adopted villages:
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological-Horizontal/vertical)

vii. Constraints if any in the continued application of these improved technologies

Sr. No.	Name of village	Block Name	<b>Families Selected</b>	Suitable technology
1				
2				
3				
4				
5				
6				
7				
8				
9				

^{**-} Milk Lit/Day

5.4. No. and name and villages adopted for doubling farmer's income indicate whether benchmark

survey of the village are done or not.

S. No.	No. Of villages	Name of villages	Bench mark survey done or not
1			
2			
3			
4			
5			
6			

## 6. LINKAGES

Functional linkage with different organizations

<b>A.</b> Fi	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 unnatshetisamruddhshetkari scheme						
3	SAU	Collaborative programme with scientists of medicinal and aromatic plant unit, MPKV Rahuri.						
4	Mahatma Phule Krishi Vidyapeeth, 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 Krishi mela, 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						

## B. List special programs 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	Amount (Rs.)

#### C. Details of linkage with ATMA

a) Is ATMA implemented in your district

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

#### Coordination activities between KVK and ATMA

S. No.	Program	Particulars	No. of programs attended by KVK staff	No. of programs Organized by KVK	Other remarks (if any)
1	Meetings				
2 Research projects					
3	Training programs				
4	Demonstrations				
5	Extension Programs				
6	Kisan Mela				
7	Technology Week				
8	Exposure visit				
9	Exhibition				
10	Soil health camps				
11	Animal Health				
11	Campaigns				
12	Others (Pl. specify)				
13	Publications				
14	Video Films				
15	Books				
16	Extension Literature				
17	Pamphlets				
18	Others (Pl. specify)				
19	Other Activities (Kisan Gosthi)				
20	Farmer Scientist				
20	interaction				
21	Integrated Farm Development				
22	Agri-preneurs development				

#### D. Give details of programs implemented under National Horticultural Mission

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

E. Nature of linkage with National Fisheries Development Board -NIL

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

F. Details of linkage with RKVY

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

# 7. Convergence with other agencies and departments activities may be specified under DAESI, YCMOU, study centers and other

#### 8. Innovator farmer's meet

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

#### 9. Farmers Field School (FFS)

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

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

Technology	Feedback

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

Technology	Feedback

#### 11. Technology Week celebration during 2019-20:

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

KVK is not included in the special program on drought mitigation

#### A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries			

B. Major area coverage under alternate crops/varieties

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

## C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
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

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	1.		
Total			

G. Awareness campaign

3. Awai chess campaign												
	M	eetings	G	osthies	Fie	ld days		rmers fair	Exl	hibition	Fili	m show
State	No ·	No. of farmer										
Maharasht												
ra												
Total												

## **13. IMPACT**

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

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

Ī	Name of specific	No Of	No. Of		ncome (Rs.)
	technology/skill transfer	% of adoption	Before (Rs/Unit)	After (Rs/Unit)	

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

Yea r	Producti on per unit (q/ha)		% increa se in	Trial given to the farme	Horizont al spread of area	n	reme	Seed S	Saving	Req	uire	Ferti sav	
	$T_1$	T2	yield	rs	(Ha)	$T_1$	T2	(Kg/h a)	(Rs/h a)	$T_1$	T2	(Kg/h a)	(Rs/h a)

req (N	Time require (Mah hr/ha)		Labour cost (Rs)				otal aving			Additional Income (T2-T1)	Net Profit =(12+13)	Villa	ge income (Rs.)
$T_1$	T2	$T_1$	T2	$T_1$	T2		$T_1$	T2			<b>T1</b>	Т2	

Farmer's Feed back:

Socio-economic advantages:

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
		_	
		_	
Total		_	

Name of			Type of Messages								
KVK	Message Type	Crop	Livestock	Weathe r	Marketin g	Awarenes s	Other enterprise	Total			
KMK	Text only										
KVK, Kolhapu	Voice only										
r-II	Voice & Text										
1-11	both										
	Total										
	Messages										
Total farm	ners Benefitted	·									

# 15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

S1.		Year of	Area		tails of production	Amour	nt (Rs.)		
No.	Demo Unit	establishment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Bio fertilizer unit								
2	Soil Testing								
3	Nursery Unit								
4	Dairy Unit								
	-								
5	Vermicompost Unit								
6	Goarty Unit								
7	Poultry Unit								
8	Azolla	_		_	_				
9	Custom hiring center								

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

Name		Date of	Area (ha)	De	etails of production	1	Amount	(Rs.)	
of the crop	Date of sowing	harvest		Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

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

Sl.			Amou	unt (Rs.)	
No.	Name of the Product	Qty (lit.)	Cost of inputs	Gross income	Remarks
1	PSB				
2	Rhizobium				
3	Azatobacter				
4	Trichoderma				
5	Pseudomonas				
6	Paceilomyces				

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

Sl.	Name	Details of production			Amou	nt (Rs.)		
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks	
1	Dairy							
2	Buffaloes							
3	Goat							
4	Poultry							

#### 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)

## F. Database management

S. No	Database target	Database created
	NIL	

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

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

#### 16. 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
Current Account	State Bank of India	MIDC, Gokul Shirgaon	07958	Shri Siddhagiri Math KVK	37762625343	416002006	SBIN0007958

# B. Utilization of KVK funds during the year 2018-19 (Rs. In lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
13.1	Recurring Contingencies			
13.1.1	Pay & Allowances	88	88	69.26
13.1.2	Traveling allowances	4.7	4.7	0.89
13.1.3	Contingencies	8.2	8.2	1.95
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance			0.32
В	POL, repair of vehicles, tractor and equipments			0.34
С	Meals for trainees			
D	Teaching material for Training & Demonstrations.			0.27
E	Training of extension functionaries			0.57
F	Publication of Extension Lit. for Farmers and extension functionary			
G	Honorarium for Trainers			0.26
Н	On-farm testing (problem oriented)			0.19
I	Demonstration on major crops other than Oilseed & Pulses, animal husbandry, fisheries etc.			
J	Kisan Melas (at KVK farm)			
K	Library (purchase of Newspaper, journals etc)			
L	Maintenance of Farm			
M	Enterprenureship development program(EDP) Integrated farming System (IFS)			
N	Soil test 94ensitive and Printing of soil health cards			
13.1	Total Recurring	100.90	100.90	72.10
13.2	Non-Recurring Contingencies			
13.2.1	Works	93	93	75.91
13.2.2	Equipments including SWTL & Furniture			
13.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	8	8	7.93
24.2.4	Library			
13.2	Total Non Recurring	101	101	83.84
13.3	REVOLVING FUND			
13.4	GRAND TOTAL (A+B+C)	201.9	201.9	155.94

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year

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

Name of the staff	Designation	Title of the training program	Institute where attended	Dates

- 18. List of the collaborative research/extension projects and also write brief key achievements of the projects.
  - Pro. SOIL
  - NARI (please indicate the name of one adopted village and give the activities carried over on nutri-96ensitive agriculture.)
  - VATICA
  - Seed Hub
  - Others (if any)
- 19. Please include any other important and relevant information which has not been reflected above (write in detail).
  - Farmers' group meeting:

#### **Women Empowerment:**

- i. Mahila Kisan Diwas:
- ii. World Women day:

#### **Telecasting of Government schemes**

- Webcasting of Pradhan Mantri Kisan Samman Nidhi program: Swaccha Bharat Abhiyan
- Swacchta Pakhwada:

#### **Natural Resource management**

- World Soil day:
- Jal Sanskriti Workshop:
- Jai kisan Jai Vigyan Week:

#### **Extension activities**

- Exposure Visit:
- International Yoga Day:
- ICAR Day Farmers scientist interaction:

•

#### **APR SUMMARY**

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

# 1. Training Programs

Clientele	No. Of Courses	Male	Female	Total participants
Farmers & farm women	54	1251	418	1669
Rural youths	15	313	92	405
Extension functionaries	09	307	20	327
Sponsored Training	01	30	05	35
Vocational Training	00	00	00	00
Total	79	1901	535	2436

## 2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	29	10.65	-
Pulses	-	-	-
Cereals	43	12.35	-
Vegetables	30	3	-
Fodder Crops	26	4	-
Other crops	40	14.6	-
Hybrid crops	=	-	-
Total	168	44.6	-
Livestock & Fisheries	26	=	26
Drugery Reduction	45	=	45
Other enterprises	15	-	15
Implements and Machinery	=	-	-
Total	86	-	86
Grand Total	254	44.6	86

# 3. Technology Assessment

Category	No. Of Technology Assessed & Refined	No. Of Trials	No. Of Farmers
Technology Assessed			
Crops	5	68	68
Livestock	2	26	26
Various enterprises	1	15	15
Nutrition Security	1	15	15
Total	9	124	124

## 4. Extension Programs

Category	No. of Programmes	Total Participants
Extension activities	302	35378
Other extension activities	244	-
Total	546	35378

# 5. Mobile Advisory Services

Name of		Type of Messages						
KVK	Message Type	Crop	Livest ock	Weath er	Marketi ng	Awaren ess	Other enterprise	Tot al
	Text only	-	-	-	-	-	-	-
	Voice only	-	-	ı	-	-	-	-
KVK,	Voice & Text both							
Kolhapur-II	Total Messages	-	-	-	-	-	-	-
	Total farmers							
	Benefitted				•			

# 6. Seed & Planting Material Production

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

# 7. Soil, water & plant Analysis

Particular	No. of Samples	No. of Beneficiaries	Value Rs.
Soil	-	-	=
Water	-	-	-
Plant	-	-	-
Total	-	-	-

Block- Villages- covered.

## 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	-
2	Conferences	-
3	Meetings	-
4	Trainings for KVK officials	-
5	Visits of KVK officials	-
6	Book published	01
7	Training Manual	-
8	Book chapters	01
9	Research papers	-
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	02
13	Proceedings	-
14	Award & recognition	-
15	Ongoing research projects	-