ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2020 (1st January 2020 to 31st December 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Tel	ephone	Email	Website address & No. of
Address with Fin Code	Office	Mobile	Ellidii	visitors (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

I	Address	Telephon	е	E mail	Website address	
		Office	Mobile	E IIIaii		
	Shri Kshetra Siddhagiri Mahasansthan, Kaneri Math At post: Kaneri, Taluka: Karveer Dist: Kolhapur 416234(M.S.)	0231-2671059 0231-2684100	1	siddhagirimath@gmail.com	www.siddhagirimath.org	

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

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

1.4. Year of sanction: 14th March, 2018 1.5. Staff Position (as on 31 December, 2019)

	Stan Position (as on 31 Dec	Jan 19 19 19 19 19 19 19 19 19 19 19 19 19		If Perm	nanent.		If
					indicate		Tempora
SI. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	ry, pl. indicate the consolid ated amount paid (Rs./mon th)
1	Senior Scientist and Head	Dr. Ravindra Singh	Agricultural Extension	Rs. 40240	Rs. 9000/-	17-12-2018	
2	Subject Matter Specialist	Mr. Pandurang A. Kale	Agronomy	Rs. 16880	Rs. 5400/-	26-12-2018	
3	Subject Matter Specialist	Mr. Rajendra S. Waware	Soil Science	Rs. 16880	Rs. 5400/-	01-01-2019	
4	Subject Matter Specialist	Ms. Pratibha B. Thombare	Home Science	Rs. 16230	Rs. 5400/-	04-01-2019	
5	Subject Matter Specialist	Dr. Chandrakant V. Dhandore	Animal Science	Rs. 16230	Rs. 5400/-	10-01-2019	
6	Subject Matter Specialist	Dr. Parag D. Turkhade	Plant Protection	Rs. 16230	Rs. 5400/-	17-01-2019	
7	Subject Matter Specialist	Mr. Sunil Kumar	Agril. Extension	Rs. 16230	Rs. 5400/-	21-01-2019	
8	Programme Assistant	Mr. Vishvambhar H. Jadhav	GPP	Rs. 9710	Rs. 4200/-	01-11-2019	
9	Computer Programmer	Mr. Vitthal C. Muthal	Computer Science	Rs. 9710	Rs. 4200/-	02-11-2019	
10	Farm Manager	Mr. Somnath D. Gadade	M. Sc.	Rs. 9710	Rs. 4200/-	25-11-2019	
11	Accountant/Superintende nt	Mr. Janagarajan Illayaraja	M.B.A. (Finance)	Rs. 9710	Rs. 4200/-	15-11-2019	
12	Stenographer	Mr. Vinayak D. Vanjari	B.A.	Rs. 7810	Rs. 2400/-	01-11-2019	
13	Driver 1	Mr. Bramhanand J. Khade	H.S.C.	Rs. 6720	Rs. 2000/-	01-11-2019	
14	Driver 2	Mr. Omkar R. Patil	H.S.C.	Rs. 6720	Rs. 2000/-	01-11-2019	
15	Supporting staff 1	Mr. Rohit N. Naik	H.S.C.	Rs. 5410	Rs. 1800/-	01-11-2019	
16	Supporting staff 2	Mr. Shubham H. Shinde	H.S.C.	Rs. 5410	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

1.7 A) Infrastructural Development: Buildings

A)	Buildings				Stage			
S.		Course of	Complete			Incomplete		
No.	Name 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)							
а	Dairy Unit							
b	Office							
С	Vermicompost Unit							
d	Nursery Unit							
е	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 B) Vol	Other				·			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
L.M.V. (Mahindra Bolero-SLE)	2019	793599	15,419	Working
Tractor Kubota MAU 4501 (45 H.P.)	2020	626000	446.5 Hrs.	Working

C) Equipments & AV aids

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

1.8 Details SAC meeting conducted in the year.

Date	Name and Designation of Participants	Salient Recommendations	Action taken
22 nd January, 2020	 Hon'ble. P.P. Adrushya Kadsiddheshwar Swamiji, Chairman Shri Siddhagiri KVK, Kaneri Kolhapur-II. Dr. Ankush Kamble, Scientist, ICAR-ATARI, Zone-VIII, Pune Dr. Ashokrao Pisal, Representative of DEE, MPKV, Rahuri Dr. S. R. Shinde, Representative of Associate Dean, College of Agriculture, Kolhapur Mrs. Sunanda Kurhade, Project Director, 	 Develop marketing models of organic farming. Conduct seed production program Sesamum should be cultivated as a intercrop in sugarcane in summer season. Bee keeping program should be started on small scale. 	We had started those units which were suggested by SAC members.

ATMA, Kolhapur		
 Shri. Jaywant Jagtap, Sr 	Scientist &	
Head, KVK, Kolhapur-I		
 Mr. Chandrakant Suryav 	anshi,	
Agricultural Developmen	Officer, Z.P.,	
Kolhapur		
Dr. S. C. Kulkarani, Lives	tock	
Development Officer, Ta	: Karveer,	
Kolhapur		
Mr. Deepak Ghate, Distri	ct Social Welfare	
Officer, Z.P., Kolhapur		
Mr. Yogiraj Bachche, Exc	cutive Officer,	
AIR, Kolhapur		
 Shri. Tanaji Nikam, Prog 	essive Farmer	
• Sau. Rupali Mali, Progre	ssive Woman	
Farmer		
• Shri. Ashok Methe, Prog	essive Farmer	
Mr. Suyog Chaughule, P	ogressive	
Farmer		
Mr. Madhukar Khade, Pr	ogressive	
Farmer		

2. DETAILS OF DISTRICT

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

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

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

SI. 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
		Heavy rainfall, Shallow light to medium red, black and laterite hilly soils Crops: Paddy, Finger millet, Sugarcane, Groundnut and Vegetables Rainfall: 5000 mm
2		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
4	Alluvial soils	Neutral to Alkaline, PH: 7.00 to 7.5, E.C. about 1mm, Crops = Sugarcane Maize, Paddy.	167123

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

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

Authentic Source (State / Central Govt)
2.5. Weather data (2020)

Month	Dainfall (mm)	Dainy Days	Temperature 0 C		Relative Humidity (%)	
Wonth	Rainfall (mm)	Rainy Days	Maximum	Minimum	Maximum	Minimum
January	00	00	-	-	-	-
February	00	00	-	-	-	-
March	3.1	00	-	-	-	-
April	12.0	01	-	-	-	-
May	23.4	04	-	-	-	-
June	318.8	19	-	-	-	-
July	242	23	-	-	-	-
August	622.7	28	-	-	-	-
September	212.1	18	-	-	-	-
October	199.3	15	-	-	-	-
November	0.3	00	-	-	-	-
December	1.0	00	-	-	-	-
Total	1634.7	108	-	-	-	-

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district (Ref. Year 2019-20)

Category	Population (No.)	Production (Per unit)	Productivity (Per unit)
Cattle		•	
Crossbred	2,75,113	27,47,216	6.01 ltr/day
Indigenous	72,160	1,08,324	1.6 ltr/day
Buffalo	6,12,998	34,09,240	4.08 ltr/day
Sheep	10,04,130	26,57,920	20 kg/year
Goats	16,25,003	51,94,207	33.48 kg/year
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry	•		•
Hens	5,41,230	10,41,530	2.0 kg/bird
Desi	1,19,305	3,18,459	1.5 kg/bird
Category		Production (Q.)	Productivity (Per Unit)
Fish (Reservoir)			
Fish (Farm ponds)			

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

Kagal	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 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. Value addition scientific knowledge and skill about value
Gadhinglaj	Gadhinglaj	Hanmantwa di	Soybean Groundnut Sorghum Chilli Chick pea Sugarcane Vegetables Livestock	 Low productivity of Major agronomical crop under rainfed condition Imbalanced fertilizer management Unaware about use of bio fertilizers. Yield losses due to regular insect pests and diseases. Incidence of leaf curl and thrips on chili. Poor vegetable production Lack of technical knowledge about improved farming tools Low quality fodder Lack of information about new schemes Lack of proper marketing 	 Promotion of improved varieties of agronomical crops Promotion of Integrated Nutrient Management Promotion of dry land technologies and in situ soil moisture conservation Validation of IPM practices. Intensive vegetable production. Food crop cultivation for food security Use of improved farm tools and implements for farming Use of university recommended fodder varieties Awareness about new marketing strategies, tools and online platforms Awareness about ICT tools and forming social media/online information groups

Bhudargar h	Bhudargar h	Bediv (Savatwadi)	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. Entrepreneurship 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
Ajara	Ajara	Bhadvanwa di	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 platforms
Chandgad	Chandgad	Turkewadi	Sugarcane Paddy Cashew Potato Ragi Sweet potatoVeget ables Livestock	Low productivity of major agronomical crops due to local cultivars and improper agronomical practices Low awareness about sugarcane trash management Imbalanced use of chemical fertilizers Reduction in yield due to incidence of pests and diseases Improper health management in cattle Difficulties in operating agriculture equipments for farm women Low awareness about government schemes Low use of ICT tools for agriculture	 Cost effective crop production technology Promotion of Integrated Nutrient Management Sugarcane trash management Promotion of organic farming Plant protection measures for cereals. Introduction of newer variety of vegetables Availability of technical knowledge of crop production Proper management practices for dairy animals Use of modified drudgery reducing implements specially designed for farm women

2.8. Discipline-wise priority thrust areas:

Sr. No.	Discipline	Priority thrust areas
1.	Agronomy	 Cultivation of improved varieties of major agronomical crops Adaption of integrated crop management practices in major agronomical crops. Use of Integrated farming system. Promotion of drip Irrigation system in Sugarcane. Promote the farmer towards organic farming. Development of entrepreneurs through seed production. Promotion of farm mechanization by using improved tools and implements. Weed management

Soil Science	 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, 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
Plant Protection	 Increase productivity of the crops by using IPM and IDM technology Building judgment about selection of pesticides and pesticides formulations 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
Animal Science	Promotion of fodder & seed production Nutritional management in Cattle and Buffaloes Promotion of back yard poultry Management of animals under drought situation Ecto and Endo parasite control in livestock Conservation of green fodder and treatment of crop residues Management of diseases in livestock
Home Science	 Unawareness about processing of fruits and vegetable Unawareness about Protein Energy Malnutrition, among Pre-school children Anemia observed in farm women Loss of food grains due to insects and pest during storage Lack of awareness about family hygiene & improvement in nutritional health status.
Agricultural Extension	 Promotion of group approach & strengthening of group farming (FPO/FO/FC etc.) To motivate farmers to use latest technologies as per their capacity Promote the use of ICT to increase the access to authorized information sources, problem solving To identify & use the potential crop/commodity leaders for efficient communication & insuring participation of all the CIG members Entrepreneurship development of rural youth for income centric agriculture Entrepreneurial motivational training of farmers & youth Knowledge up gradation about the facilities available at Marketing institutions Viz. APMCs, Maha. Warehouse Corporation & MSAMB, Pune Awareness creation about Climate Change & its Impact on agriculture To provide information on Polyhouse, Nursery and hi-tech technologies To provide personalized mobile agro advisoy
	Plant Protection Animal Science Home Science

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

	Ol	FT		FLD			
	•	1		2			
Num	ber of OFTs	Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	9	140	127	18	17	256	241

	Trai	ning		Extension Programs					
		3				4			
Numbe	er of Courses	Number	of Participants	Number of Programs		Number	of participants		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
77	88	1710	2164	436	495	4708	28741		
	Seed Production (qtl.)				Planting materials (Nos.)				
	5				6				
	Target	Ach	nievement		Target	Achievement			
	-		-		-		-		
Lives	stock, poultry strai	ns and finger	rlings (No.)		Bio-prod	ucts (Kg)			
		7		8					
	Target	Ach	nievement		Target		Achievement		
	-		-		-		-		

3.1. B. Operational areas details during Year 2020

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 multimicr onutrient for improvement of fertilizer use efficiency and see the effect on growth and yield of pre-seasonal Sugarcane. FLD on Integrated Crop Management FLD on Integrated Nutrient Management with trash management Training KisanMela/ Use of ICT/ group approach./ Social Media Use Technology Mahotasav Agril. Exhibition. Group discussion Method Demonstration Field Day Radio talk News coverage
2.	Soybean	Low yields and Imbalanced 9ensitive9 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 Kisan Mela/ Use of ICT/ group approach./ Social Media Use Technology Mahotasav Agril. Exhibition./CIG Group discussion Method Demonstration Field Day News coverage.
3.	Finger Millet	Low yield under rain feed condition & Crop logging followed by	18000 ha area under crop	Bediv & Bhadvanwadi	Assessment on new variety of Ragi of Phule Nachni/KOPN-942 against

		Imbalanced fertilizer management.			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 FLD on Varietal demonstration on Phule Samrudhi and 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 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	 Kisan Mela Technology Mahotasav Agril. Exhibition. Radio talk News articles.
7.	Gram	Reduced yield due to use of Local old varieties and gram pod borer & wilt	9000 hectare area under gram crop	Kogil (B), Shendur, Turkewadi & Bhadwanwadi	 FLD on Management of Chick Pea Pod Borer, H armigera Training KisanMela Technology Mahotasav Agril. Exhibition. Radio talk News articles.
8.	Tomato	Incidence of leaf curl virus and early blight on tomato	450 hectare area under Tomato crop	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
					• Ivews coverage
11.	Other vegetable crops (okra, onion, garlic, coriander, cabbage etc.)		43%	Kogil (B), Shendur, Turkewadi Hanamantwadi &Bhadwanwad i	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 &Bhadwanwad i	 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 &Bhadwanwad i	Assessment on Black Australorp breed Training Kisan Mela/ Use of ICT/ group approach./ Social Media Use Technology Mahotasav Group discussion Method Demonstration Field Day Radio talk News coverage
14.	Dairy	Low milk yield of dairy animals, Lower Growth rate, &Body weightAffects health of status of animal	70%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwad i	 Assessment on Use of Area specific mineral mixture Assessment on Use of Pro-biotic supplement FLD on Use of Protocols in Mastitis Management Training Kisan Mela/ Use of ICT/ group approach./ Social Media Use Technology Mahotasav Group discussion Method Demonstration Field Day Radio talk News coverage
15.	Drudgery reduction	Traditional method of milking cow heavy drudgery & Awkward posture ,Uneasy sitting position and more time consuming &movement of animal while milking, incidence of storage pests, more time consumption and hardworking process, During picking of soybean hand scratches	68%	Kogil (B), Swatwadi, Shendur, Turkewadi Hanamantwadi &Bhadwanwad i	 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&vitamin 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 &Bhadwanwad i	 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 &Bhadwanwad i	 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 &Bhadwanwad i	 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 &Bhadwanwad i	 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 &Bhadwanwad i	 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 &Bhadwanwad i	 Awareness campaign Group discussion Method demonstration Radio talk News coverage Field Visit

* Support with problem-cause and interventions diagram
3.2. Technology Assessment (Kharif 2020, Rabi 2019-20, Summer 2020)
A.1. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercia I Crops	Vegetables	Fruits	Flower	Plantatio n crops	Tuber Crop s	TOTAL
Varietal Evaluation	01									01
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management	01		01							02
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction	01									01
Farm machineries										
Women & Child Care	01									01
Integrated Pest Management				01						01
Integrated Disease Management		01			01					02
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	04	01	01	01	01					08

A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Evaluation of Breeds		01						01
Nutrition Management	01							01
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income								
generating enterprises								
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)
Integrated Nutrient	Finger millet	To study the effect of INM & foliar spray 19:19:19 (2%) in fingar millet.	15	15	6
Management	Chickpea	Soil test crop response equation for chickpea (30q/ha)	15	15	6
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management Small Scale Income					
Generation Enterprises Weed Management					
Resource					
Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
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
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
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 parameter	Results of assessment	Feedback from the farmer	Any refinemen t needed	Justificat ion for refineme nt	
1	2	3	4	5	6	7	8	9	10	11	12	
					T1: Local Variety (Kali	Plant Height (cm)	62	The performance assessment is	1) The Plant height of the Phule			
						Kakani)	Yield (q/ha.)	17.5	satisfactory. The	Nachani is		
					T2: Phule	Plant Height (cm)	96	improved variety of finger millet Phule kasari	more as compared to			
			To assess the new variety of finger millet Phule Nachni		Nachani	Yield (q/ha.)	21.7	found superior over Phule nachni	local & Phule Kasari. Due to	Farmers require	-	
Finger		Low yield of finger millet due				Plant Height 83.2 and local variety this Phul		this Phule	duration,			
Millet	Irrigated	lodging of plant and old variety.	& Phule kasari (KOPN 942) against local variety	13	T3: Improved variety- Phule kasari (KOPN 942)	Yield (q/ha.)	22.3	/ha grain production whereas the average height of plant recorded 83.2 cm as compare to Phule nachani (96 cm) and local variety (62 cm).	Nachni at the time of grain filling stage lodging sensitive in this variety. 2) Phule Kasari is require more than one	short height and high yielding varieties.	No	

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Technology Assessed	Source of Technology	Source of Technology Production		Net Return (Profit) in Rs./unit	BC Ratio
13	14	15	16	17	18
T1: Local Variety	-	17.5	(q/ha.)	21250	2.11
T2: Phule Nachani	MPKV. Rahuri	21.7	(q/ha.)	30910	2.62
T3: Improved variety- Phule kasari	WERV, Ranun	22.3	(q/ha.)	32290	2.69

- Title of technology assessed: To assess the new variety of finger millet Phule Nachni & Phule kasari against local variety
- 2. **Problems definition:** Low yield of finger millet due lodging of plant and old variety.
- 3. Detail of technologies selected for assessment:
 - Phule Nachni- Maturity (days)-115-120, Avg. Yield- 20-22 qt./ha., Phule kasari- Maturity (days)-, 100-110 Avg. Yield- 22 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 Phule kasari found superior over Phule nachni and local variety yielded 22.3 qt. /ha grain production whereas the average height of plant recorded 83.2 cm as compare to Phule nachni (96 cm) and local variety (62 cm).
- 7 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 Phule nachni variety is not suitable for this region & phule kasari variety required at least two harvesting
- 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: 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
		Low yield under rain	n lo study effect of		T1: Farmers practice: No use of Fertilizers	Yield (q/ha.) No. of fingers (No. of fingers/ ear)	18.2 4.22	Spraying of	Spraying of	9 M Nil	
Finger Millet	Medium soil, Rain feed condition	feed condition. 2) Imbalanced fertilizer management. 3) No use of	2) Imbalanced Nutrient Management and foliar	^t 15	RDF(45: 22.5:00	Yield (q/ha.)	23.4	at pre flowering Stage & INM in finger millet gives 28.57% at pre flowering Stage & in finger millet giv 28.57%	flowering Stage & INM in finger		Nil
		foliar spray by farmers			NPK kg/ha as per soil test value) 2. Spraying of 2 % 19:19:19 at pre flowering Stage.	oil test value) . Spraying of 2 6 19:19:19 at pre No. of fingers (No. of fingers/ ear)	5.8		millet gives 28.57% more yield.		

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		18.2	q/ha.	22860	2.20
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	23.4	q/ha.	33820	2.69

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

- 1 Title of Technology Assessed: To study effect of Integrated Nutrient Management and foliar spray of 19:19:19 (2%) in Finger Millet
- 2 **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	T ₁	T ₂
i) No. of fingers/ ear	4.22	5.80
ii) Production (q/ha)	18.2	23.4
iii) B:C ratio	2.20	2.69

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 28.57 % vield 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 28.57 % 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 Bhadawanwadi, Tal: Ajara 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 Bhadawanwadi 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.

[3] Soil Science – Chickpea 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: No use of Fertilizers	Yield (q/ha.) No. of pods/ plant	14.9 135				
		Low yield under irrigated	Soil Test Crop		T2- Fertilizer prescription based on STCR equation	Yield (q/ha.) 25.	25.6	Application of fertilizer prescription based on Average 289 pods			
Chickpea	Medium soil, irrigated condition	condition. Imbalanced fertilizer management.	Response Equation for chickpea (30 q/ha)	15	N= (2.75 X TY) - (0.17 x SN kg/ha) P= (3.27 X TY) - (1.97 x SP kg/ha) K= (3.05 X TY) - (0.11 x SK kg/ha) + seed treatment + micronutrient as per Soil Test.	No. of pods/ plant	289	STCR equation resulted in 71.81 % yield improvement over farmers practice.	observed per plant in T2 as compare to 135 pods in farmers practice.	Nil	Nil

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
T1: Farmers practice: No use of Fertilizers		14.9	q/ha.	36750	2.42
T2- Fertilizer prescription based on STCR equation N= (2.75 X TY) - (0.17 x SN kg/ha) P= (3.27 X TY) - (1.97 x SP kg/ha) K= (3.05 X TY) - (0.11 x SK kg/ha) + seed treatment + micronutrient as per Soil Test.	MPKV, Rahuri	25.6	q/ha.	75700	2.91

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

- 1 Title of Technology Assessed: Soil Test Crop Response Equation for chickpea (30 q/ha)
- **Problem Definition:1)** Low yield under irrigated condition. 2)Imbalanced fertilizer management.
- 3 Details of technologies selected for assessment:
 - T1 : Farmers practice : No use of Fertilizers.
 - T2 : Technology assessed : T2- Fertilizer prescription based on STCR equation N= (2.75 X TY) (0.17 x SN kg/ha) P= (3.27 X TY) (1.97 x SP kg/ha) K= (3.05 (0.11 x SK kg/ha) + seed treatment + micronutrient as per Soil Test.
- 4 Source of technology: MPKV. Rahuri

X TY) -

- 5 Production system and thematic area: Integrated nutrient Management
- 6 Performance of the Technology with performance indicators:

Performance indicators	T ₁	T ₂
i) No. of Pods/ Plant	135	289
ii) Production (q/ha)	14.9	25.6
iii) B:C ratio	2.43	2.91

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

- Before this OFT programme the farmers were illiterate Soil Test Crop Response Equation for chickpea
- They were not doing seed treatment with Rhizobium and PSB @ 25 grams/kg seed.
- Method of application of Rhizobium & PSB is very easy.
- The farmers understood that by Application of fertilizer prescription based on STCR equation resulted in 71.81 % yield improvement over farmers practice.

8 Final recommendation for micro level situation:

Application of fertilizer prescription based on STCR equation resulted in 71.81 % yield improvement over farmers practice, 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:

Cost on chemical Fertilizer is more.

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

10 Process of farmers' participation and their reaction:

Village Kogil(B), Tal: Karveer 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 Chickpea 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 Soil Test Crop Response Equation for chickpea.. 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 pods/ plant, 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 8	Results of assessment	Feedback from the farmer	Any refinement needed 11	Justification for refinement 12
		Incidence of white	4	5	T1: Farmers practice Treatment with	Clump Mortality (%)	13.02	9	10		12
	Irrigated		white white grub in		application of chemical insecticides like, Phorate 10G, Chlorpyriphos 50 Ec, Fipronil + Imidacloprid, etc.	Yield (q/ha.)	898.5	more effective ras compared to T1 in response to per cent clump	Easy ve method for	No	
					T2: Technology assessed First application of EPN, H. indica@7.5 kg per ha in the month of June Second need based application at 30-45 days after first application.	Clump Mortality (%)	9.09				
Sugarcane						Yield (q/ha.	916.8		satisfactory results against white grub		No
					T3: Technology assessed- application of	Clump Mortality (%)	7.85				
					<i>Metarhiziumanisopliae</i> @ 15 kg/ha.	Yield (q/ha.	928.60				

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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		898.50	q/ha.	1,16,625/-	2.08
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	916.80	q/ha.	1,24,200/-	2.18
T3: Technology assessed Soil application of <i>Metarhiziumanisopliae</i> @ 15 kg/ha.		928.60	q/ha.	1,28,650/-	2.24

- 1 Title of Technology Assessed: Application of Entomopathogenic Nematode, Heterorhabditisindica 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 PM.
- **Performance of the Technology with performance indicators:** Satisfactory, Both T2 and T3 revealed less incidence of white grub as compared to farmers practices when it is applied at proper time by proper method.
- 7 Feedback, matrix scoring of various technology parameters done through farmer's participation /other scoring techniques: BothEPN and *M. anisopliae*has a potential to manage white grub when its applied at right time in the field but it good applicable in Suru cultivated sugarcane instead of Adsali and Ratton sugarcane, because it is laborious in Adsali and Ratton sugarcane.
- **Final recommendation for micro level situation:** EPN and *M. anisopliae* found suitable to manage white grub when it applied timely and scientifically. It is recommended in both Suru sugarcane cultivation.
- **9** Constraints identified and feedback for research: 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 and *M. anisopliae*. 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
	larianta d				T1: Farmers	Leaf curl virus (%)	4.02		Hybrids have a potential to		
					practice– Cultivation of	Early blight (%)	3.05	Assessed	achieve good yield and also		
		Incidence of leaf curl virus and early blight on tomato	rl ArkaRakshak		local varieties of tomato and	Bacterial wilt (%)	0.00	technology found superior over	found resistance to leaf curl virus,		
				13	indiscriminate use of pesticides T2:	use of	White fly (No./leaf)	3.96	farmers practices and observed	early blight and bacterial wilt.	
Tomoto						Yield (Qt/ha)	142.00	less disease incidence and higher average yield (16.97 t/ha) as compared to	Therefore reduced the disease management cost and got expected fruit yield. The incidence of leaf miner is found more on this	Na	NI-
Tomato	Irrigated					Leaf curl virus (%)	0.25			INO	No
					Technology assessed-	Early blight (%)	0.56				
					Cultivation of ArkaRakshak	Bacterial wilt (%)	0.00	farmers practice (12.20 t/ha)			
					hybrids of Tomato	White fly (No./leaf)	2.25				
						Yield (qt/ha	169.70		variety.		

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Technology Assessed 13	Source of Technology 14	Production 15	Please give the unit	Net Return (Profit) in Rs. / unit 17	BC Ratio
T1: Farmers practice— Cultivation of local varieties of tomato and indiscriminate use of pesticides		142.00	Qt/ha	76,300/ha	2.16
T2: Technology assessed- Cultivation of ArkaRakshak hybrids of Tomato	IIHR, Bengaluru	169.70	Qt/ha	1,02450/ha	2.52

- 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.
- 2 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 To LCV, 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. Obs0ervation recorded for early blight, Tomato leaf curl virus and Bacterial wilt. It is observed that PDI of early blight was high in farmers practice as compared to Assessed practice. Per cent Tomato leaf curl virus was also recorded lower in assessed practice. Similarly, the incidence of Bacterial wilt was also observed higher in farmers' practices as compared to assessed practice. The average fresh tomato fruit yield 16.97ton per ha was recorded in assessed practices which was higher than farmers practice (12.20ton/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. But this variety is more susceptible to leaf miner as compared to other. Though disease management cost is less but need to manage leaf miner.
- **Final recommendation for micro level situation:** Arka Rakshak variety of Tomato found suitable against three diseases in Kolhapur location and recommended for cultivation with IPM for leaf miner
- **9** 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 rising of nursery and planting of seedlings. Farmers Reaction:- Unbiased selection and enthusiastically agreed to conduct trial of this new disease resistant hybrid.

[6] Plant Protection: Soybean 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
	Rainfed				T1: Farmers Practice	Per cent pod infection	12.69				
Soybean					Spraying of fungicide like Carbendazime	2) Per cent Stem infection	9.25				
					50WP	3) Yield (qt/ha)	18.71	Assessed			
		ed during of		13	T2: Technology Assessment 1. Seed Treatment with Thiram 37.5 + Carboxim 37.5 @ 3g/ kg seeds 2. Spraying of Tebuconazole 10 % WP + Sulphur 65 WG @ 2.5 g/ltr water at the time of pod development	1) Per cent pod infection	8.38	technology found superior over farmers practices and observed less disease incidence and found 8.23 per cent increase yield over the farmers	Seed treatment with suggested fungicide and time of spraying of fungicide is very important and found promising to reduce pod blight of soybean		
						2) Per cent Stem infection	6.98			No	No
						3) Yield (qt/ha)	20.25	practice.			

Contd...

Technology Assessed	Source of Technology	Production	Please give the unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
T1: Farmers Practice Spraying of fungicide like Carbendazime 50WP		18.71	Qt	36390/ha	1.95
 T2: Technology Assessment 1. Seed Treatment with Thiram 37.5 + Carboxim 37.5 @ 3g/kg seeds 2. Spraying of Tebuconazole 10 % WP + Sulphur 65 WG @ 2.5 g/ltr water at the time of pod development 	VNMKV, Parbhani	20.25	Qt	37500/ha	2.05

- 1 Title of Technology Assessed: Management of pod blight in Soybean
- **Problem Definition:** Infection of pod blight disease in Soybean during cloudy & rainy days at pod development stage.
- 3 Details of technologies selected for assessment: 1. Seed Treatment with Thiram 37.5 + Carboxim 37.5 @ 3g/ kg seeds 2. Spraying of Tebuconazole 10 % WP + Sulphur 65 WG @ 2.5 g/ltr water at the time of pod development
- 4 Source of technology: VNMKV, Parbhani (Maharshtra)
- 5 Production system and thematic area: Rainfed and IPM/IDM
- 6 Performance of the Technology with performance indicators: Excellent, revealed very less percent disease incidence and achieved higher yield
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: Assessed technology reduced the disease management cost and got expected grain yield.
- 8 Final recommendation for micro level situation: Assessed technology found suitable in Kolhapur location and recommended for cultivation
- 9 Constraints identified and feedback for research: Heavy rainfall during pod development stage is the main constrain for spraying of fungicide, because there is chance of washing out of sprayed fungicides.
- 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 seed treatment, sowing and spraying of fungicides. Farmers Reaction:- Unbiased selection and enthusiastically agreed to conduct trial of this new technology.

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

Enterpris e	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 refinem ent needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Poultry	Evaluati on of Breeds	Low eggs & meat production	To assess the performance of Black Australorp breed of poultry in backyard poultry farming	13	T1: Farmers Practice – Rearing of local poultry breeds T2: Technology assessed - Rearing of improved poultry breed Black Australorp	Yield (kg/bird) Initial body weight (gram) Final Body weight (gram) Egg production Yield (kg/bird) Initial body weight (gram) Final Body weight (gram) Egg production			Ongoing		

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 – Rearing of local poultry breeds	CPDO		kg/bird		
T ₂ : Technology assessed - Rearing of improved poultry breed Black Australorp	GFDO		kg/bird		

- 1 Title of Technology Assessed: To assess the performance of Black Australorp breed of poultry in backyard poultry farming
- 2 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
- 6 Performance of the Technology with performance indicators: Result awaited
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:
- 8 Final recommendations for micro level situation:
- 9 Constraints identified and feedback for research:
- 10 Process of farmer's participation and their reaction: Farmers reaction:

[8] 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)	5.4		Easy handling		
					use of Pro- biotic	Fat (%)	3.4		to farmers,		
Dairy	Semi stalls feeding	Low milk yield in CB	To study the effect of Probiotic on milk	13	T2:Improved Technology:-	Milk Yield (ltr/day/cow)	6.1	Milk yield increased and Ruminal	Milk yield increase, cost of	No	Nil
	management.	cows	production in CB cow		Use of Pro- biotic 50 ml/(diluted M)/cow/day	Fat (%)	3.6	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		5.4	(Ltr/day/cow)	60	1.14
T2:Improved Technology:-Use of Pro-biotic 50 ml/(diluted M)/cow/day	NDRI, Karnal	6.1	(Ltr/day/cow)	95	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

[9] 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 refinemen t needed	Justific ation for refinem ent
	_	1) Pest infestation	To assess		T1: Farmers Practice – Use of Gunny bags (Jute bags)	Pest infestation per kg in grains weight	Grain damage 11.13 %	Result shown that 2.55% pest infestation in assessed practice against	Enhance grain life in a much safer and it is	•	
Jowar	-	quality of grains 2) Fluctuation in moisture content due to change in temperature spoilage grains during storage	prevent store grain	15	T2: Technology assess – Use of Super Grain Bag	Pest infestation per kg in grains weight	Grain damage 2.55 %	11.13% of infestation in traditional practice, also increase shelf life up to one year in assessed practice where 6 month in regular method	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.
- 9 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 farmer's participation and their reaction:** Selection of village Problem identification selection of farm women training input distribution demonstration data collection.

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

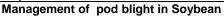
Crop/ enterprise	Farming situatio n	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parame ter	Results of assessment	Feedback from the farmer	Any refinem ent needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Soybean	_	Nutritional deficiency & Low body	To study the efficiency of protein energy rich	15	T1: Farmers practice: Regular diet (Chapati/Roti, Dal, Rice, Milk, Sabaji etc.)	Average Weight Gain (kg/Child/90 days)	1.2	Increased weight and Mid Upper Arm Circumference	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	No	No
Coybean	_	Weight in pre- school children	food for Malnutrition pre-school children	13	T2: Improved technology: Soya Nuts 25gm/day(2 Month)	Average Weight Gain (kg/Child/90 days)	2.9	0.5cm by using improved technology	nuts available in their own house and now they realized that Soya nuts are very nutritious, children are like to consume these soya nuts.	INU	110

- 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 practiceand 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 preschool children's training input distribution demonstration– data collection.

Action photographs of OFT

On Farm Testing's (OFTs)

Improved crop management technologies in finger millet







Use of Pro-biotic Supplement

Black Australorp breed of backyard poultry





To reduce the Malnutrition among preschool children

Super Grain Bags to prevent store grain pests during storage





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 2020 and recommended for

large scale adoption in the district

S	Crop/	Themati	Technology	Details of popularization methods	spr	zontal ead of nology	
. N o	Enterpri se	c Area*	demonstrated	suggested to the Extension system	No. of village s	No. of farm ers	Area in ha
1	Soybea n	INM	To improve productivity of Soybean by using liquid bio-fertilizers formulation as a seed treatment and STBF management in to increase area under Soybean-Sugarcane cropping system.	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day & krishi saptah.	02	125	75
2	Sugarca ne	INM	Use of Acetobactor (Plant health) and PSB (soil health) and mult micro nutrient and multimacro nutrient for improvement of fertilizer use efficiency on growth and yield of Sure Sugarcane in	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day & krishi saptah.	02	100	50
3	Sugarca ne	Resourc e conserv ation Technol ogy	Sugarcane crop residues management for improvement of soil health in	The technology was highlighted in different meet to the extension personnel for popularization through FLD, Kisan Sammelan, advisory, input supply, field day & krishi saptah.	06	450	325
5							
5							
6							
7	-	-					
8							

Details of FLDs implemented during 2020 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.) В.

SI. No.	Crop	Themati c area	Technology Demonstrated	Seaso n and year	Area (ha)		No. of farmers/demonstration			Reasons for shortfall in achieve ment
					Pro pos ed	Act ual	SC/ ST	Ot her s	To tal	
1	Soybea n	INM	To improve productivity of Soybean by using liquid biofertilizers formulation as a seed treatment and STBF	Kharif 2020	5.2	6	0	15	15	-

management in Shendur village of Kagal tashil. Use of Acetobactor (Plant health) and PSB (soil health) and multi-macro nutrient and multi-macro nutrient for improvement of fertilizer use efficiency on growth and yield of Sure Sugarcane in Kogil Village of Karveer tahsil. Resource conservat ion Technolo gy Resource of kagal thasil. Rabi 2020 5.2 6.0 0 15 15 - 5.2 5.2 5.2 6.0 0 15 15 - 5.2 5.2 5.2 6.0 0 15 15 - 5.2 5.2 5.2 6.0 0 15 15 - 5.2 5.2 5.2 5.2 6.0 0 15 15 - 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	SI. No.	Cron		Technology Demonstrated	Seaso n and year	Area (ha)		fa	No. of armers onstra	: /	Reasons for shortfall in achieve ment
village of Kagal tashil. Use of Acetobactor (Plant health) and PSB (soil health) and multi-macro nutrient and multi-macro nutrient for improvement of fertilizer use efficiency on growth and yield of Sure Sugarcane in Kogil Village of Karveer tahsil. Resource conservat ion Technolo gy Resource of soil health in Shendur village of kagal thasil. Sugarca ne Resource conservat ion of soil health in Shendur village of kagal thasil.						pos	7.7		her		
2 Sugarca ne INM Use of Acetobactor (Plant health) and PSB (soil health) and multi-macro nutrient and multi-macro nutrient for improvement of fertilizer use efficiency on growth and yield of Sure Sugarcane in Kogil Village of Karveer tahsil. Sugarca ne Resource conservation Technolo gy Resource to soil health in Shendur village of kagal thasil. Sugarca ne Resource conservation Technolo gy Summer 2020											
3 Sugarca conservation Technolo gy management for improvement of soil health in Shendur village 2020 5.2 6.0 0 15 15 -	2	_	INM	Use of Acetobactor (Plant health) and PSB (soil health) and mult micro nutrient and multi-macro nutrient for improvement of fertilizer use efficiency on growth and yield of Sure Sugarcane in Kogil		5.2	6.0	0	15	15	
5 6 7	3		conservat ion Technolo	Sugarcane crop residues management for improvement of soil health in Shendur village		5.2	6.0	0	15	15	-
6 7											
7											
8											
9 10											

Details of farming situation

				Sta	tus o	f soil					No
Crop	Seas on	Farming situation (RF/Irriga ted)	Soil typ e	N	Р	К	Previ ous crop	Sowi ng date	Harv est date	Seaso nal rainfal I (mm)	. of rai ny da ys
Soybe an	Kharif 2020	Rainfed	Medium	L o w	Lo w	Medi um	Sugarcan e	Kharif 20	Sept 20		
Sugarca ne	Rabi 2020	Irrigated	Medi um	Low	Lo w	Medi um	Soybean	Rabi 20	Nov 2021		
Sugarca ne	Summe r 2020	Irrigated	Medi um	Low	Lo w	Medi um	Sugarcan e	-	July 2021		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
Soybean	Need to develop improved tractor drawn machineries for sowing of Soybean on BBF method and fertigation techniques for Soybean.
Sugarcane	Need to develop short duration and fertilizer responsive verities

Farmers' reactions on specific technologies

S. No	Feed Back
Soybean	The average no. of root nodules per plant 78.06 was more in demonstration plot as compare to local plot58.53 Use of new technology with INM resulted in 30.70 % yield improvement over local
Sugarcane	 No of Nodes per cane was 26.31 % more as compare to farmers practice. Use of new technology with INM resulted in 29.38 % yield improvement over local.
Sugarcane	1. 42 days more required for full decomposing of the trash as compare to demo plot
Trash	
Management	

Extension and Training activities under FLD

SI. No.	Activity	No. of activities organized	Date	Number of participa nts	Remarks
1	Field days	03	24/8,14/9,29/ 10,	69	
2	Farmers Training	04	26/5,09/7, 23/10,30/12 2020	68	
3	Media coverage	-	-	-	
4	Training for extension functionaries	-	-	-	

C. Performance of Frontline demonstrations

Frontline demonstration on Cereals crops

Crop	Thematic	technolog y demonstra ted	Variet y	No. of		Parameter	Data on parameter		Yield (q/ha)				. %	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo n	LC	High	Low	Avora	Che ck	Increa se in yield	Gros s Cost	Gros s Retur n	Net Retur n	BCR (R/C)	Gros s Cost	Gros s Retur n	Net Retur n	BC R (R/ C)
Rice	Varietal evaluatio n	To improve productivity of Rice by using improved variety Phule Samrudhi	Phule Samr uddhi	14	3	No. of Tillers/Plant	16-17	12- 13	73	52	58	48	20.83	50000	1276 00	7760 0	2.55	5000 0	1056 00	5560 0	2.11
Sorghu m	Variety Introducti on	Use of improved variety of Rabi sorghum Phule Revti against local variety	Phule Revti	15	6	Plant Height (cm)	205- 215	195- 200	33	19.3	30.25	22	37.50	35875	1134 37	7756 2	3.16	3500 0	8250 0	4750 0	2.35

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

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on Oil Seed & Pulses crops

		technology		No. of	Are		Data			Yield	l (q/ha)		%		Econon onstrati		./ha)	Eco	nomics (Rs./		
Crop	Themati c Area	demonstrat ed	Variet y	Farme rs	a (ha)	Parameter	paran Demo n	LC	High	Low	Avera ge	Che ck	Increa se in yield	Gros s Cost	Gros s Retur n		BCR (R/C	Gros s Cost	Gros s Retur n	Net Retur n	BC R (R/ C)
		To improve productivity of Soybean	Phule			No. of pods/plant No. of	105- 110	80- 85													- /
Soybean	Varietal evaluatio	by using improved	Sang am	15	5.6	branches /plant	6-7	4-5	32	20	24.1	17.2	40.11	30000	7471	4471 0	2.49	3000	5332 0	2332 0	1.7 7
	n	variety Phule Sangam (KDS-726)	(KDS- 726)			Plant height (cm)	73.9	55.3							0						
		To improve productivity of Soybean by using liquid biofertilizers	Phule			Av. No. of pods/ plant	91.2	63.9													
Soybean	INM	formulation as a seed treatment and STBF managemen t in Hanmantwa di	Sang am (KDS- 726)	15	6	Av. Number of root nodules/Pla nt	78.06	58.5 3	33.5	23.9	27.16	20.7	30.70	30750	9777 6	6702 6	3.17	2850 0	7483 2	4633 2	2.6
		Managemen				Spodoptera litura /MRL	3.98	6.15													
Soybean	IPM	t of Soybean Leaf	JS 335	15	3.0	Semilooper/ MRL	3.38	5.69	15.4 0	23.8	20.70	19.45	6.42	37500 /-	8280 0/-	4530 0/-	2.21	3795 0/-	7780 0/-	3985 0/-	2.0 5
		Defoliators			Ü	Hairy Caterpillars/ MRL	00.00	00.0	ŭ					,	3			3	5	O,	
Chick		Managemen t of Chick Pea Pod	Jaki		3.0	No. of Larvae/ MRL	0.62	1.12	12.5	20.2		15.2		28,60	73,26	44,66		29,50	68,67	39,17	2.3
Pea	IPM	borer, Helicoverpa armigera(Hu b.)	9218	15	0	Per cent pod damage	2.69	4.63	6	4	16.28	6	6.68	0/-	0/-	0 /-	2.56	0/-	0/-	0/-	2

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

FLD on Other crops

	Thema	Name of	No.	Are		Yie	d (q/ha)		% Chan			her neters	den		mics of ion (Rs.	/ha)	Ec	onomic (Rs.	s of che /ha)	eck
Category	tic	the	of	a		Dem	0		ge in	Parame			Gro	Gros	Net	BC	Gro	Gros	Net	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	Retu	R (R/ C)	ss Cos t	s Retu rn	Retu rn	R (R/ C)
Commercial	Crops																			
Sugarcane	Integrat ed Crop Manag ement	To improve productivit y of sugarcane by adaption suitable plant spacing and INM on the basis on soil testing	13	3.8	155 0	11 25	1382	1150	20.17	No.of nodes/ cane Average wt. of cane	26	1.8	102 500	3456 25	2431 25	3.37	118 500	2875 00	1690 00	2.42
Sugarcane	Integrat ed Nutrien t Manag ement	Use of Acetobact or , PSB and multi- micro and macro nutrient for improvem ent of fertilizer	14	5.6	157 5	11 22	1330	1028	29.38	No. of nodes/C ane (At harvest)	24	19	925 00	3325 00	2400 00	3.59	992 50	2570 00	1577 50	2.58

		use efficiency on growth and yield of Suru Sugarcan e																		
Sugarcane		Sugarcan e crop residues managem ent for improvem ent of soil health	13	5.2	112	80 5	950	820	15.85	Days require for full decomp osing of trash	105	147	558 00	2375 00	1817 00	4.25	558 00	2050 00	1492 00	3.67
Vegetables				L								L								
Brinjal	Integrat ed Pest	Managem ent of Brinjal Shoot and	15	1.5	290	20 1.3	231.5	220.	5.13	% Shoot Damag e	6.42	10.1 6	75,6	3,47, 310	2,71, 710	4.60	57,5	3,30, 360	2,52, 060	4.22
Dilijai	Manag ement	Fruit Borer, L. Orbonalis	10	1.5	.19	0	4	24	3.13	% Fruit Damag e	8.26	14.2 6	00/-	/-	/-	4.00	00/-	/-	/-	7.22
Fodder Cro	ps					l		l				I		1	<u> </u>		1	1	1	
Naiper	Fodder Crops	Demonstr ation of hybrid nepier variety Phule Gunwant	13	2	135 0	11 60	1255	1115	12.56	No. Of Cuttings	5	3	683 90	1138 45	4545 5	1.66	621 34	9823 4	3610 0	1.58
Fodder Sorghum	Fodder Crops	Introduction of Multicut Sorghum COFS -29 in irrigated area in Kharif Season	13	2	169 0	14 80	1585	1410	12.41	No. Of Cuttings	3	2	493 66	7048 7	2112 1	1.42	423 66	5541 2	1304 6	1.30

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

FLD on Livestock

Category	Thematic area	Name of the technology	No. of	No. of	Ma paran	jor neters	% change		her meter		Econon monstra	tion (R			nomics (Rs	s.)	ck
Category	i nemanc area	demonstrated	Farmer	Units	Demo	Check	in major parameter	Demo	Check		Gross Return				Gross Return		BCR (R/C)
Animal					Milk (Ltr/Anir	Yield nal/Day)			at %)								
Pandharpuri Buffalo	Animal Nutrition Management	Use of area specific mineral mixture	13	13	7.3	6.1	19.67	6.6	6.1	950	1350	400	1.42	810	1030	220	1.27
HF cross breed cow	Disease Management	Use of protocol in mastitis management	13	13	5.4	4.8	12.50	4.9	4.1	790	1120	330	1.41	755	1015	260	1.34
Sheep & Goat																	

FLD on Fisheries -

Cotogony	Thematic	Name of the	No. of	No.of	Major pa	rameters	% change	Oth param		de	Econon monstra	nics of ition (Rs	.)	Ec	onomics (Rs		ck
Category	area	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	Check			Net Return		Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
												·				•	

FLD on Other enterprises

Cotomony	Name of the	No. of	No.of	Major p	aramet	ers	% change		her neter		demonst Rs./unit	ration	_	of check	ck
Category	technology demonstrated	Farmer	units	Parameters	Demo	Check	in major parameter	Demo	Check	Gross Return	Net Return		Gross Cost	Net Return	BCR (R/C)
Oyster												` '			, ,
Mushroom															
Button															
Mushroom															
Apiculture															

Maize Sheller									
Value									
Addition									
Vermi									
Compost									
Sericulture		_				•			

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Technology Demonstrated	Name of observations	Data on Parameter
				Output (hr/person)	35
			T1: Farmers Practice	Cleaning (%)	80
Drudgery	Spiral Separator	15		Splits (%)	5
Drudgery	Opiral Separator	13	T2: Technology assess – Use of	Output (hr/person)	210
			Spiral Separator	Cleaning (%)	95
			Opiral Deparator	Splits (%)	0.5
				Time required for Milking (rating)	Moderate: 100%
			T1: Farmers Practice	Discomfort during	Severe : 93.33
				milking (rating)	
Drudgery	Milking Stool & Stand	15		Pain frequency (rating)	Always : 86.66 %
				Time required for milking	Less duration:80%
			T2: Technology assess – Use of milking stool and stand	Discomfort during milking (rating)	Very mild: 93.33%
				Pain frequency (rating)	Never: 80%
				Capacity (kg/ Batch)	
			T1: Farmers practice:	Moisture content	
			No value addition in Vegetables	Temperature	
Value Addition	Solar Dryer	15		Drying Time (per Batch)	Ongoing
Value Addition	Solai Diyel	13	T2: Improved technology	Capacity (kg/ Batch)	Origonia
			Solar Dehydration of vegetables	Moisture content	
			Colai Deliyaration of Vegetables	Temperature	
				Drying Time (per Batch)	

FLD on Farm Implements and Machinery

Name of the		Technology	No. of	Aroo	Major	Filed ob (output/r	servation nan hour)	% change	Labor	reducti	on (man	days)		Cost re 'ha or F		
implement	Crop	demonstrate d	Farmer	Area (ha)	parameters	Demo	Check	in major paramet er	Land prepar ation	Sowi ng	Weedi ng	Total	Land prepar ation	Labo ur	Irriga tion	Total
Soybean		Soybean			Work output	66.66	46.66									
Mitten	Soybean	Mitten	15	6	Time Saving	73.33	26.66	-	-	-	-	-	-	-	-	-
Willen		Wiltieri			Physical injury	93.33	13.33									

FLD on Other Enterprise: Kitchen Gardening

ed r Units Demons Check Page Check Gross Gross Net BCR Gross Gross Retur	Category and Crop		Name of the technology demonstrat		No. of	Yield (Kg	g/month)	% change	increa: 3 m	level se after onth g/dl)	Econo	mics of ((Rs.	demonst /ha)	ration	Ec	onomics (Rs./i		k
	ана стор	area		r	Units		Check	ili yieid	Demo	Check							Retur	BCR (R/C)

FLD on Demonstration details on crop hybrids D. Performance of Cluster Frontline Demonstrations (C0-FLD)

CFLD on Oilseed crops (2020)

0	Thematic	technology	Vi-t-	No. of	Area		Yie	ld (q/ha)		%	Econo	mics of (Rs.	demonstr /ha)	ation	Ec	onomics (Rs.	s of chec /ha)	k
Crop	iron	demonstrated	Variety	Farmers	(ha)	High	Dem Low	o Average	Check	in yield		Gross Return	Net Return			Gross Return	Net Return	BCR (R/C)

CFLD on Pulse crops (2020)

	Thematic	Technology	W. J.	No. of	Area		Yie	eld (q/ha)		. %	Econo	mics of (Rs.	demonstr /ha)	ation	Ec	onomics (Rs.	s of chec /ha)	:k
Crop	Area	demonstrated	Variety	Farmers	(ha)	High	Den Low	no Average	Check	in yield		Gross Return	Net Return			Gross Return		BCR (R/C)
							•											

									1

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

Action photographs of FLD

Frontline Demonstrations (FLDs)

Improved Soybean variety of Phule Sangam (KDS-726)

Improved rice variety of Phule Samrudhi



Service and the service and th

Phule Revati Use of improved variety of Rabi sorghum Phule Revti against local variety

Improve the productivity of sugarcane by adoption of suitable plant spacing and INM on the basis on soil Testing





Use of Acetobactor, PSB and multi-micro and macro nutrient for improvement of fertilizer use efficiency on growth and yield of Suru Sugarcane.

Sugarcane crop residues management for improvement of soil health





Management of Brinjal Shoot and Fruit Borer, Leucinodes orbonalis (Guenee)

Demonstration of hybrid Napier variety Phule Gunwant





Introduction of Multi cut Sorghum COFS -29 in irrigated area in Kharif Season.



Demonstration of Spiral separator (Grain cleaner) for Cleaning the grains





Solar dryer for drying of vegetables







3.4. Training Programs (Online programmes if any should be included under On Campus category) Farmers' Training including sponsored training programs (on campus)

Farmers' Training inc	cluding spo	nsored	training p	rogram	s (on ca	impus)	_			
Thematic area	No. of		Others		<u>F</u>	Participant SC/ST	<u>:S</u>		Grand Tota	<u></u>
Thematic area	courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production		Wate	1 Ciliale	Total	Wate	1 Ciliale	Total	Wate	1 Ciliale	Total
Weed Management										
Resource										
Conservation										
Technologies										
Cropping Systems										
Crop Diversification	1	74	0	74	0	0	0	74	0	74
Integrated Farming										
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop	5	94	0	94	0	0	0	94	0	94
Management		_	_	_				_		
Soil & water										
conservation										
Integrated nutrient management										
Production of										
organic inputs										
Others (pl specify)	_				_	_	_			
Organic Farming	2	48	46	94	0	0	0	48	46	94
Total	8	216	46	262	0	0	0	216	46	262
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										
Plant propagation										
techniques										
Others (pl specify)										
Total (b)										
c) Ornamental										
Plants										
Nursery										
Management										
Management of										

n attack all all and a	F					I	Ι		I	
potted plants										
Export potential of										
ornamental plants										
Propagation										
techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and										
Aromatic Plants										
Nursery										
management										
Production and										
management										
technology										
Post harvest										
technology and										
value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and										
Fertility										
Management										
Soil fertility										
management										
Integrated water		1		1	1					
management										
Integrated Nutrient		1		1	1					
Management	01	18	01	19	0	0	0	18	01	19
Production and use		-		+	 					
of organic inputs	01	13	0	13	0	0	0	13	0	13
Management of				1						
Problematic soils										
Micro nutrient				+						
deficiency in crops Nutrient Use				+						
Efficiency Balance use of	1	1		1	1					
fertilizers	1									
Soil and Water										
Testing	1	1		1	1					
Others (pl specify)										
Resource	<u> </u>			1			<u> </u>	J		

Concomication							I			I
Conservation Technologies										
Total	2	31	1	32	0	0	0	31	1	32
IV Livestock		31		32	U	U	U	31		32
Production and										
Management										
Dairy Management	2	40	0	40	3	0	3	43	0	43
Poultry Management										
Piggery										
Management										
Rabbit Management										
Animal Nutrition	1	21	2	23	2	1	3	23	3	26
Management			_		_					
Disease										
Management										
Feed & fodder										
technology Production of quality										
animal products										
Others (Goat										
management)										
Total	3	61	2	63	5	1	6	66	3	69
V Home										
Science/Women										
empowerment										
Household food										
security by kitchen	01	00	37	37	00	05	05	00	42	42
gardening and	O I	00	31	31	00	03	03	00	42	42
nutrition gardening										
Design and										
development of										
low/minimum cost										
diet Designing and										
Designing and development for high										
nutrient efficiency										
diet										
Minimization of										
nutrient loss in										
processing										
Processing and										
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques	01	00	15	15	00	00	00	00	15	15
Value addition Women	UΙ	00	10	10	00	UU	00	00	10	າວ
empowerment										
Location specific										
drudgery reduction										
technologies										
Rural Crafts										
Women and child										
care										
Others (pl specify)										
Total	2	0	52	52	0	5	5	0	57	57
VI Agril.										
Engineering										
Farm Machinery and										
its maintenance		1								
Installation and										
maintenance of micro irrigation										
systems										
Use of Plastics in										
farming practices										
Annual Progress Penor				<u> </u>			l		Dago I	l

			1				1		1	
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	5	66	21	87	0	0	0	66	21	87
Management						-				
Integrated Disease										
Management										
Bio-control of pests	4	4.5		4.0		_		4-		4.0
and diseases	1	15	3	18	0	0	0	15	3	18
Production of bio				1						
	l									
control agents and	l									
bio pesticides	 	1								
Others (Safe										
handling and use of	l									
agro chemicals)	l									
Others (Seed										
treatment)										
Total	6	81	24	105	0	0	0	81	24	105
VIII Fisheries								<u> </u>		
Integrated fish				1						
farming										
Corp broading and										
Carp breeding and	l .									
hatchery										
hatchery management										
hatchery management Carp fry and										
hatchery management Carp fry and fingerling rearing										
hatchery management Carp fry and fingerling rearing Composite fish										
hatchery management Carp fry and fingerling rearing Composite fish culture										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes										
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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										
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										
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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										
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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										
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										
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										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production										
hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of ornamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Edible oyster farming Pearl culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides										

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 Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics Oz 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
Organic manures production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and foodder Production of Fish feed Mushroom Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
production Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed Mushroom Production Apiculture Others (pi specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
Production of fry and fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of Fish feed Mushroom Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics Doublization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Fingerlings Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and fodder Production of Fish feed Mushroom Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics Capacity State of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
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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 Others (pl specify) Tormation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
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 O2 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
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 Oz 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
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 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Mobilization of social development of farmers/youths WTO and IPR issues Others (Community)
Production of livestock feed and fodder Production of Fish feed
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 O2 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
fodder Production of Fish feed Mushroom Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics O2 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Production of Fish feed Mushroom Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics Official Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
Feed
Feed
Mushroom Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Production Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics O2 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Apiculture Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics O2 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Others (pl specify) Total X Capacity Building and Group Dynamics Leadership development Group dynamics 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Total X Capacity Building and Group Dynamics Leadership development Group dynamics 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
X Capacity Building and Group Dynamics Leadership development Group dynamics 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
and Group Dynamics Leadership development Group dynamics 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community)
Dynamics Leadership development Second develo
Leadership development 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Mobilization of social capital 03 76 7 83 11 5 16 87 12 99 Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community) 0
Group dynamics Description Description
Group dynamics 02 56 16 72 14 8 22 70 24 94 Formation and Management of SHGs Wobilization of social capital 03 76 7 83 11 5 16 87 12 99 Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community 0
Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Mobilization of social capital 03 76 7 83 11 5 16 87 12 99 Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
capital 03 76 7 83 11 5 16 87 12 99 Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
Entrepreneurial development of farmers/youths WTO and IPR issues Others (Community
development of farmers/youths WTO and IPR issues Others (Community
farmers/youths WTO and IPR issues Others (Community
WTO and IPR issues Others (Community
Others (Community
service provider)
Total 5 132 23 155 25 13 38 157 36 193
XI Agro-forestry
Production Production
technologies
Nursery
management
Integrated Farming
Systems
Others (pl specify)
Total Total
GRAND TOTAL 26 521 148 669 30 19 49 551 167 718

Farmers' Training including sponsored training programs (Off Campus)

	No. of				F	articipant	S			
Thematic area	courses		Others			SC/ST			Frand Total	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	16	2	18	0	0	0	16	2	18
Resource										
Conservation	1	35	29	64	0	0	0	35	29	64
Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	1	26	0	26	0	0	0	26	0	26
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop	2	28	3	31	0	0	0	28	3	31

NA	ı	1	I	l		ı	l	l		
Management										
Soil & water										
conservation										
Integrated nutrient management										
Production of										
organic inputs										
Others (Soil										
sampling techniques										
and use of soil										
health card)										
Total	5	105	34	139	0	0	0	105	34	139
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										
Plant propagation										
techniques										
Others (pl specify)										
Total (b)										
c) Ornamental										
Plants										
Nursery]								
Management										
Management of										
potted plants		1								
Export potential of ornamental plants										
Propagation		<u> </u>								
techniques of										
Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops	l	1		l		l	l	l		

Production and	Π			1						1
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)								<u> </u>		
Total (g)										
GT (a-g)										
III Soil Health and										
Fertility										
Management										
Soil fertility	02	30	37	67	01	0	01	31	37	68
management										
Integrated water										
management										
Integrated Nutrient	02	44	0	44	0	0	0	44	0	44
Management	02	44	U	44	U	U	U	44	U	44
Production and use	00	- 4		- 4	•	0	_	- 4		- 4
of organic inputs	03	54	0	54	0	0	0	54	0	54
Management of										
Problematic soils										
Micro nutrient										
deficiency in crops										
Nutrient Use										
Efficiency										
Balance use of										
fertilizers										
Soil and Water	0.4	4.0	^	4.0	^	^	^	4.0	^	40
Testing	01	13	0	13	0	0	0	13	0	13
Others (pl specify)										
								i		Ī
I KASUHIYA										l
Resource	01	17	01	18	0	0	0	17	1	18
conservation	01	17	01	18	0	0	0	17	1	18
conservation technology										
conservation technology Total	01 9	17 158	01 38	18 196	0	0	0	17 159	1 38	18 197
conservation technology Total IV Livestock										
conservation technology Total IV Livestock Production and										
conservation technology Total IV Livestock Production and Management	9	158	38	196	1	0	1	159	38	197
conservation technology Total IV Livestock Production and Management Dairy Management										
conservation technology Total IV Livestock Production and Management Dairy Management	9	158	38	196	1	0	1	159	38	197
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management	9	158	38	196	1	0	1	159	38	197
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery	9	158	38	196	1	0	1	159	38	197
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management	9	158	38	196	1	0	1	159	38	197
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management	9	158	38	196	1	0	1	159	38	197
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition	2	158 45	38	196 48	3	26	29	159 48	5	53
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management	9	158	38	196	1	0	1	159	38	197
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease	2	45 45 25	38	196 48 25	3	26	29	159 48 27	5	53
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management	2	158 45	38	196 48	3	26	29	159 48	5	53
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease	2	45 45 25	38	196 48 25	3	26	29	159 48 27	5	53
conservation technology Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management	2	45 45 25	38	196 48 25	3	26	29	159 48 27	5	53

		1		1	1	ı		1		
Production of quality										
animal products										
Others (Goat										
management)										
Total	6	131	5	136	11	26	37	142	7	149
V Home										
Science/Women										
empowerment										
Household food										
security by kitchen										
gardening and										
nutrition gardening										
Design and										
development of										
low/minimum cost										
diet										
Designing and										
development for high	0.4	00	00	00	00	0.5	0.5	00	0.5	0.5
nutrient efficiency	01	00	00	00	00	25	25	00	25	25
diet										
Minimization of										
nutrient loss in	01	00	16	16	00	00	00	00	16	16
processing	٠.		. •	.						.
Processing and				1			<u> </u>			<u> </u>
cooking										
Gender				+			<u> </u>			<u> </u>
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques Value addition										
Women	01	00	13	13	00	00	00	00	13	13
empowerment										
Location specific										
drudgery reduction										
technologies										
Rural Crafts										
Women and child	02	08	39	47	00	00	00	08	39	47
care										
Drudgery reduction	01	00	00	00	00	16	16	00	16	16
Total	6	8	68	76	0	41	41	8	109	117
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							<u></u>			<u></u>
Repair and										
maintenance of farm										
machinery and										
implements			<u> </u>	<u></u>	<u></u>		<u> </u>	<u> </u>		<u> </u>
Small scale			-							
processing and										
value addition		<u>l </u>				<u></u>				
Post Harvest	_									
Technology										
Others (pl specify)							İ			İ
Use of small										
agriculture tools &										
implements										
Total										

VII Plant Protection										
Integrated Pest	7	160	20	100	10	0	10	179	20	217
Management	/	160	38	198	19	U	19	179	38	217
Integrated Disease										
Management										
Bio-control of pests										
and diseases Production of bio		-								
control agents and										
bio pesticides										
(Safe handling and										
use of agro										
chemicals)										
Others (Seed										
treatment)	-	400	00	400	40	•	40	470	00	047
Total VIII Fisheries	7	160	38	198	19	0	19	179	38	217
Integrated fish		-								
farming										
Carp breeding and										
hatchery										
management		1								
Carp fry and										
fingerling rearing		1		1						
Composite fish										
culture Hatchery		+		+						
management and										
culture of freshwater										
prawn										
Breeding and culture										
of ornamental fishes										
Portable plastic carp										
hatchery Pen culture of fish		1								
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 Die fortilizer		1		1						
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		1		1						
FTOUUCIIOTI OI					<u> </u>					

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	02	21	9	24	6	3	9	27	6	33
Formation and	02	21	3	24	0	3	3	21	0	33
Management of										
SHGs										
Mobilization of social										
	02	21	2	21	9	1	12	30	3	33
capital										
Entrepreneurial										
development of										
farmers/youths										
WTO and IPR issues										
Others (pl specify)										
contract farming										
Total	4	42	11	45	15	4	21	57	9	66
XI Agro-forestry										
Production										
technologies										
Nursery										
management										
Integrated Farming										
Systems Others (pl specify)										
Total										
GRAND TOTAL	37	604	194	790	46	71	119	650	235	885

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

	No. of				P	Participant	S			
Thematic area	courses		Others			SC/ST			Frand Total	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	16	2	18	0	0	0	16	2	18
Resource										
Conservation	1	35	29	64	0	0	0	35	29	64
Technologies										
Cropping Systems										
Crop Diversification	1	74	0	74	0	0	0	74	0	74
Integrated Farming	1	26	0	26	0	0	0	26	0	26
System	'	20	U	20	U	0	U	20	0	20
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop	7	122	3	125	0	0	0	122	3	125
Management	,	122	Ü	120	0	0	0	122	0	120
Soil & water										
conservation										
Integrated nutrient										
management										
Production of										
organic inputs										

Others (pl specify)	2	48	46	94	0	0	0	48	46	94
Organic Farming										
Total II Horticulture	13	321	80	401	0	0	0	321	80	401
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										
Others (pl specify)										
Total (b)										
c) Ornamental										
Plants										
Nursery										
Management Management of										
potted plants										
Export potential of										
ornamental plants										
Propagation										
techniques of										
Ornamental Plants		ļ								
Others (pl specify)										
Total (c) d) Plantation crops										
Production and		 								
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops		1								
Production and										
Management technology										
Processing and		<u> </u>								
value addition										
Others (pl specify)										
(F F 30)	i		1	1		1			1	

Total (e)										
f) Spices										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and										
Aromatic Plants										
Nursery										
management Draduction and										
Production and management										
technology										
Post harvest										
technology and										
value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and										
Fertility										
Management		1		1				ļ		
Soil fertility	02	30	37	67	01	0	01	31	37	68
management		1		1						
Integrated water										
management Integrated Nutrient										
Management	03	62	01	63	0	0	0	62	01	63
Production and use										
of organic inputs	04	67	0	67	0	0	0	67	0	67
Management of										
Problematic soils										
Micro nutrient										
deficiency in crops										
Nutrient Use										
Efficiency										
Balance use of										
fertilizers										
Soil and Water	01	13	0	13	0	0	0	13	0	13
Testing										
Others (pl specify) resource										
conservation	01	17	01	18	0	0	0	17	01	18
technology										
Total	11	189	39	228	1	0	1	190	39	229
IV Livestock							-			
Production and										
Management										
Dairy Management	4	85	3	88	6	26	32	91	5	96
Poultry Management										
Piggery										
Management		1		1						
Rabbit Management		1		1				<u> </u>		1
Animal Nutrition	2	46	2	48	4	1	5	50	3	53
Management Disease		+		+				-		
Management	1	17	0	17	4	0	4	21	0	21
Feed & fodder		1		1						
technology	2	44	2	46	2	0	2	46	2	48
Production of quality										
animal products										
Others (Goat										
management)										
Total	9	192	7	199	16	27	43	208	10	218
V Home										

Science/Women						1		1	1	
empowerment										
Household food										
security by kitchen	04	00	0.7	0.7	00	0.5	0.5	00	40	40
gardening and	01	00	37	37	00	05	05	00	42	42
nutrition gardening										
Design and										
development of low/minimum cost										
diet										
Designing and										
development for high	01	00	00	00	00	25	25	00	25	25
nutrient efficiency	ΟI	00	00	00	00	25	25	00	25	25
diet										
Minimization of	0.4		4.0	4.0	0.0				4.0	4.0
nutrient loss in	01	00	16	16	00	00	00	00	16	16
processing Processing and										
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques Value addition	01	00	15	15	00	00	00	00	15	15
Women						00				
empowerment	01	00	13	13	00	00	00	00	13	13
Location specific										
drudgery reduction										
technologies										
Rural Crafts										
Women and child	02	08	39	47	00	00	00	08	39	47
care Drudgery reduction	01	00	00	00	00	16	16	00	16	16
Diddy i Eddelloii	U I	1 00	00	00	00	10	10	00	10	10
			120	128	0	46	47	8	166	
Total	8	8	120	128	0	46	47	8	166	174
			120	128	0	46	47	8	166	
VI Agril. Engineering Farm Machinery and			120	128	0	46	47	8	166	
VI Agril. Engineering Farm Machinery and its maintenance			120	128	0	46	47	8	166	
VI Agril. Engineering Farm Machinery and its maintenance Installation and			120	128	0	46	47	8	166	
VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of			120	128	0	46	47	8	166	
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation			120	128	0	46	47	8	166	
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation systems			120	128	0	46	47	8	166	
Total VI Agril. Engineering Farm Machinery and its maintenance Installation and maintenance of micro irrigation			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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 &			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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)Energy & water conservation in agriculture pumping Total			120	128	0	46	47	8	166	
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			120	128	0	46	47	8	166	
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	8	8								174
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			120	285	19	0	19	245	59	
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	8	8								174

and diseases	Bio-control of pests										
Production of bio control agents and bio pesticides (Sale handling and use of agro chemicals) Others (Seed treatment) Total 13 241 62 303 19 0 19 260 62 322 VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp breeding and hatchery management Carp from the culture of fish culture Hatchery management and culture of ornamental fishes Perdugutan fishes Perduguta		1	15	3	18	0	0	0	15	3	18
control agents and bio pesticides (Safe handling and use of agro chemicals) Others (Seed treatment) Total 13 241 62 303 19 0 19 260 62 322 VIII Fisheries Integrated fish farming Carp fry and fingerting rearing Composite fish culture Hatchery management Carp fry and fingerting rearing Composite fish culture of reshwater prawn Breeding and outlure of orammatal fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Pear culture Fish processing and value addition Others (In specify) Total IX Production of Inputs at site Seed Production Planting material production Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and foodder											
bio pesticides (Sale handling and use of agro chemicals) Others (Seed treatment) Total 13 241 62 303 19 0 19 260 62 322 Will Fisheries Integrated fish farming Carp breeding and hatchery management Carp treating and fingerling rearing Composite fish culture Hatchery management and culture of commental fishes Portable plastic carp hatchery Prawn Breeding and culture of organization of the plast carp hatchery Prawn Breeding and culture of organization of the plastic carp hatchery Prawn Breeding and culture of organization of the plastic carp hatchery Prawn Breeding and culture of organization of the plastic carp hatchery Protable plastic carp hatchery Prawn Breeding and culture of organization of the plastic carp hatchery Prawn Breeding and culture of organization of the plastic carp hatchery Protable plastic carp hatchery Production of fish and prawn Shrimp faming Edible cyster farming Pear culture Fish processing and value addition Others (pl specify) Total IX Production of Inputs at site Bio-agents production Planting material production Production Production of Beocolonies and wax sheets Small tools and implements Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder											
(Sale handling and use of agro chemicals) Others (Seed treatment) Total 13 241 62 303 19 0 19 260 62 322 VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery Hatchery Hatchery Hatchery Hatchery Pan culture of freshwater prawn Breeding and culture of oromamental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Pearl culture Fish processing and value addition Others (Ig specify) Total IX Production of Inputs at site Seed Production Planting material production Bio-agents Production Bio-agents Production Production of Bee-colonies and wax sheets Small tools and implements Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder Production of livestock feed and foodder											
use of agro chemicals) Others (Seed treatment) Total 13 241 62 303 19 0 19 260 62 322 Will Fisheries Integrated fish farming Carp breeding and hatchery management Carp try and fingerling rearing Composite lish culture Hatchery management difference of the state of											
chemicals) Others (Seed treatment) Total 13 241 62 303 19 0 19 260 62 322 VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling learing Composite fish culture Hatchery management and culture of ornamental fishes Perduging and culture of ornamental fishes Perduging learing Composite fish culture of ornamental fishes Perduging and culture of ornamental fishes Perduging learing Cible oyster farming Edible oyster farming Pearl culture Fish processing and value and others (played) Vi Production of Inputs at site Seed Production Planting material production Bio-genits production Bio-fertilizer production Production of fly and fingerling in manues production Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production of Fish feed Mushroom Production											
treatment) Total 13 241 62 303 19 0 19 260 62 322 VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing Composite fish culture International fishes Perductive of fireshwater prawn Perduction of Inputs at site Seed Production Others (pl specify) Total IX Production of Inputs at site Seed Production Bio-lertilizer production of fish and pramits Bio-persicides production of fish feed Mushroom Production of fish feed Mushroom Production of fish feed Mushroom Production of fish feed Mushroom Production of fish feed Mushroom Production of fish feed Mushroom Production of fish feed											
Total	Others (Seed										
VIII Fisheries Integrated fish farming Carp breeding and hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of the share of th											
Integrated tish farming Carp breeding and hatchery management Carp fry and fingerling rearing Composite lish culture Hatchery management and culture of freshwater prawn Breeding and culture of of semantification of the processing and culture of of semantification of the part of the processing and culture of management and culture of freshwater prawn Breeding and culture of of semantification of the part of the processing and processing a		13	241	62	303	19	0	19	260	62	322
farming Carp breeding and hatchery management Carp try and Ingerling rearing Composite lish culture Hatchery management and culture of the shade of											
Carp breeding and hatchery management Carp fry and fingerling rearing Composite fish culture Hatchery management and culture of freshwater prawn Breeding and culture of of omemental fishes Portable plastic carp hatchery Pen culture of fish and prawn Shrimp farming Pearl culture Fish processing and value Fish processing and value Fish processing and value processing and value addition Others (pl specify) Total JK Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-gentia production Vermi-compost production Vermi-compo											
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Production of livestock feed and fodder Production of Fish feed Mushroom Production											
livestock feed and fodder Production of Fish feed Mushroom Production			1								
fodder Production of Fish feed Mushroom Production	livestock feed and										
feed Mushroom Production	fodder		<u></u>	<u> </u>		<u> </u>	<u></u>	<u> </u>	<u> </u>	<u></u>	<u> </u>
Mushroom Production							-			-	
Production Production											
Apiculture											
	Apiculture										

Others (pl specify)										
Total										
X Capacity Building										
and Group										
Dynamics										
Leadership										
development										
Group dynamics	04	77	25	96	20	11	31	97	30	127
Formation and										
Management of										
SHGs										
Mobilization of social	05	97	9	104	20	6	28	117	15	132
capital Entrepreneurial										
development of										
farmers/youths										
WTO and IPR issues										
Others (Community										
Service Provider)										
Total	9	174	34	200	40	17	59	214	45	259
XI Agro-forestry										
Production										
technologies										
Nursery										
management										
Integrated Farming										
Systems										
Others (pl specify)										
Total										
GRAND TOTAL	63	1125	342	1459	76	90	169	1201	402	1603

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

Nursery Management of Horticulture crops	Training for Kurai Touth's including spe	No.		, p g			Partic	ipants			
Nursery Management of Horticulture crops	Area of training	of		Genera	ıl		SC/ST	•	Gı	rand To	tal
Nursery Management of Horticulture crops	Area of training	Cour									
crops Image: crops of the compose of the		ses	le	ale	al	le	ale	al	le	ale	al
Training and pruning of orchards	-										
Protected cultivation of vegetable crops	-										
Commercial fruit production											
Integrated farming											
Seed production	•										
Production of organic inputs 01 17 0 17 0 0 17 0 17 Planting material production	3										
Planting material production	•										
Vermi-culture 01 15 5 20 2 2 4 17 7 24 Mushroom Production Bee-keeping 1 17 0 17 0 0 0 17 0 17 Sericulture Repair and maintenance of farm machinery and implements Sericulture Seric		01	17	0	17	0	0	0	17	0	17
Mushroom Production 1 17 0 17 0 0 17 47 47 47 47 47 47 47 47 47 47 47 47 47 47 47 47 47	Planting material production										
Bee-keeping	Vermi-culture	01	15	5	20	2	2	4	17	7	24
Sericulture Repair and maintenance of farm machinery and implements Value addition 02 00 46 46 00 01 01 00 47 47 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	Mushroom Production										
Repair and maintenance of farm machinery and implements Value addition O2 O0 46 46 O0 O1 O1 O0 47 47 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	Bee-keeping	1	17	0	17	0	0	0	17	0	17
machinery and implements 02 00 46 46 00 01 00 47 47 Small scale processing 9	Sericulture										
Value addition 02 00 46 46 00 01 01 00 47 47 Small scale processing	Repair and maintenance of farm										
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	machinery and implements										
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	Value addition	02	00	46	46	00	01	01	00	47	47
Tailoring and Stitching Rural Crafts Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production	Small scale processing										
Rural Crafts Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production	Post Harvest Technology										
Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production	Tailoring and Stitching										
Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production	Rural Crafts										
Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production	Production of quality animal products										
Quail farming Piggery Rabbit farming Poultry production	Dairying										
Piggery Rabbit farming Poultry production	Sheep and goat rearing										
Rabbit farming Poultry production	Quail farming										
Poultry production	Piggery										
	Rabbit farming										
Ornamental fisheries	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										
Soil testing through STFR										
Community service provider	01	32	7	39	8	5	13	45	7	52
Entrepreneurship development										
TOTAL	6	81	58	139	10	8	18	96	61	157

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

Training for Kurai Toutils including spo	No.		<u> </u>			Partic	ipants			
Area of training	of		Genera			SC/ST	•		rand To	tal
Area of training	Cour	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot
	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										
Information networking among farmers	01	15	3	18	03	01	04	18	4	22
Capacity Building and Group Dynamics	01	21	3	24	03	01	04	24	4	28
Any other (pl.specify)	<u> </u>					<u> </u>			•	
TOTAL	2	36	6	42	6	2	8	42	8	50
	_		_			_			_	

Training for Rural Youths including spo	No. of Participants No. of Participants No. of Participants										
	_		enerai	1		30/31		Gir		Otai	
Area of training	Co urs es	Male	Fem ale	Tot al	Ma le	Fem ale	Tot al	Mal e	e m al e	Tota I	
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	01	17	0	17	0	0	0	17	0	17	
Planting material production											
Vermiculture	01	15	5	20	2	2	4	17	7	24	
Mushroom Production											
Bee-keeping	1	17	0	17	0	0	0	17	0	17	
Sericulture											
Repair and maintenance of farm											
machinery and implements											
Value addition	02	00	46	46	00	01	01	00	47	47	
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											
Soil testing through STFR											
Community service provider	01	32	07	39	08	05	13	45	07	52	
Entrepreneurship development											
Information networking among farmers	01	15	03	18	03	01	04	18	04	22	
Capacity Building and Group Dynamics	01	21	03	24	03	01	04	24	04	28	
TOTAL	8	117	64	181	16	10	26	138	69	207	

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

Training programs for Extension Perso	on Personnel including sponsored training (on campus) No. of Participants									
	No. of Participants No. General SC/ST Grand Total									
	No.	(Genera			SC/ST		Gra	and T	otal
Area of training	of Cour ses	Male	Fem ale	Tot al	Ma le	Fem ale	Tot al	Mal e	F e m al e	Tota I
Productivity enhancement in field crops										
Integrated Pest Management	2	20	7	27	0	0	0	20	7	27
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	01	00	13	13	00	03	03	00	16	16
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	2	27	13	40	00	00	00	27	13	40
Group Dynamics and farmers organization	01	09	04	13	00	00	00	09	04	13
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Agril. para-workers, para-vet training	1	17	3	20	2	1	3	19	4	23
Livestock feed and fodder production										
Household food security										
Any other contingency planning, PRA										
techniques										
Seed production technology	1	35	0	35	0	0	0	35	0	35
Climate change and its effect on										
agriculture										
Micro irrigation system										
Agriculture para vet womens & para vet										
training										
Post harvest technology and value	1	0	14	14	00	02	02	00	16	16
addition									_	
TOTAL	9	108	54	162	2	6	8	110	60	170

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

	No. of		•		No. o	f Partic	ipants	,		
Area of training	Cour		Genera	ıl		SC/ST		G	rand To	tal
	ses	Mal	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot
		е	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.			!	No. of	Partici	pants			
Area of training	of		General			SC/ST		Gr	and To	tal
3	Courses	Male	Fem ale	Tot al	Ma le	Fem ale	To tal	Mal e	Fem ale	Tot al
Productivity enhancement in field crops										
Integrated Pest Management	2	20	7	27	0	0	0	20	7	27
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	01	00	13	13	00	03	03	00	16	16
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	2	27	13	40	00	00	00	27	13	40
Group Dynamics and farmers organization	01	09	04	13	00	00	00	09	04	13
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Agril. para-workers, para-vet training	1	17	3	20	2	1	3	19	4	23
Livestock feed and fodder production										
Household food security										
Any other contingency planning, PRA										
techniques										
Seed production technology	1	35	0	35	0	0	0	35	0	35
Climate change and its effect on										
agriculture										
Micro irrigation system										
Post harvest technology and value addition	1	0	14	14	00	02	02	00	16	16
TOTAL	9	108	54	162	2	6	8	110	60	170

Sponsored training programs

	No. of	No. of Participants										
Area of training	Course		General		SC/ST			Grand Total				
Area or training	S	Mal	Fem	Tot	Mal	Fem	Tot	Mal	Fem	Tot		
		е	ale	al	е	ale	al	е	ale	al		
Crop production and												
management										Į.		
Increasing production and												
productivity of crops												
Commercial production of												
vegetables												
Production and value addition												

					No. o	f Partici	pants			
Area of training	No. of		General			SC/ST	P	G	rand Tot	tal
Area of training	Course	Mal	Fem	Tot	Mal	Fem	Tot	Mal	Fem	Tot
	S	е	ale	al	е	ale	al	е	ale	al
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										
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										
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										

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

	No.	No. of Participants										
Area of training	of		General			SC/ST		Grand Total				
	Cour ses	Male	Femal e	Total	Male	Fema le	. Intal		Fema le	Total		
Crop production and												
management												
Commercial floriculture												
Commercial fruit												
production												
Commercial vegetable												
production												
Integrated crop												

management										
Organic farming	01	13	00	13	03	00	03	16	0	16
Others (pl. specify)		- 10								1
Sugarcane Nursery	02	39	0	39	0	0	0	39	0	39
Management	-									
Seed Production										
Technology	1	19	0	19	0	0	0	19	0	19
Total	4	71	0	71	3	0	3	74	0	74
Post harvest	7	7.1	U	, ,	3		- 3	17	U	/ -
technology and value										
addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming	2	63	6	69	2	1	3	65	7	72
Composite fish culture		03	0	09		'	3	05	- ' -	12
Sheep and goat rearing										
. 0			1		 	-			 	
Piggery Poultry forming	4	40		40	4		4	40	-	00
Poultry farming	1	16	0	16	4	0	4	16	4	20
Others (Animal feed)	_		_		_		_			
Total	3	79	6	85	6	1	7	81	11	92
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	1	6	12	18	0	0	0	6	12	18
Nursery, grafting etc.										
Tailoring, stitching,										
embroidery, dying etc.		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u>L</u>
Agril. Para-workers, para-		-								
vet training	<u> </u>				<u>L</u>			L		
Others (pl. specify)										
Total	1	6	12	18	0	0	0	6	12	18
Agricultural Extension										
Capacity building and										
group dynamics			1						1	
Others (pl. specify)										
Total		_								
Grand Total	8	156	18	174	9	1	10	161	23	184

Details of trainings organized under ASCI

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

Action photographs of Trainings

Training for Practicing Farmers

Training programme on nutritional management in cattle, buffalo, sheep & goat



Training programme on integrated pest management in paddy.





Training programme on organic input preparation.



Training programme on income generation activities for empowerment of rural women.



Training Programme On Integrated Farming System



Training programme on organic input preparation methods.



Training programme on nutritional requirements for rural pregnant & lactating mother.

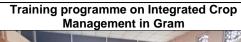




Training programme on Integrated Pest Management in Soybean



Training Program On Integrated Crop Management In Gram





Training program on management of chickpea pod borer



. farming.



Training program on Organic Farming.





Training for Rural Youth

Vocational Training Programme For Rural Youth

Rural youth training program for Sugarcane Nursery Management.





Vocational Training Programme For Rural Youth

Training program for rural youth on indigenous cattle farming.





Training for Extension Functionaries
Training programme for extension functionaries



3.5. Extension Programs

	No. of progr ams	No. of farmers	No. of Exten	
Advisory Services (Other than KMAS)		idilliei 3	sion Pers onnel	TOTAL
Advisory Services (Other than RiviAS)	148	1236	00	1236
Diagnostic visits	15	38	8	46
Field Day	16	287	17	304
Group discussions	07	128	11	139
Kisan Ghosthi	19	380	16	396
Mahila Goshthi	04	75	13	88
Film Show	00	00	00	00
Self –help groups	01	16	01	17
Kisan Mela	01	45	07	52
Exhibition	02	223	20	243
Scientists' visit to farmers field	164	445	14	459
Soil testing & soil health camp	03	3397	80	3405
Plant/animal health camps	02	134	07	141
Farm Science Club	00	00	00	00
Ex-trainees Sammelan	00	00	00	00
Farmers' seminar/workshop	06	1545	07	1552
Method Demonstrations	05	77	05	82
Celebration of important days	09	491	11	502
Special day celebration	01	26	00	26
Exposure visits	00	00	00	00
Others (Educational tour)	00	00	00	00
Lecture delivered	18	5658	10	5668
Video Show	14	12446	00	12446
Agro Tourism	00	00	00	00
Swachha Bharat Mission Activity	16	262	07	269
Gram Swaraj Abhiyan	00	00	00	00
Kisan Kalyan Karaykram	00	00	00	00
Mahashramdan (Water Cup competition)	00	00	00	00
Other (Farmers awareness campaign on White Grub Management, Campaign on New Farm Bill, Scientist Farmers Interface Meet, Prathenium Awareness Week)	08	1295	35	1330
Total	459	28204	197	28401

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

Details of other extension programs

Particulars	Number
Electronic Media (CD./DVD)	00
Extension Literature (Article-1, HandBook-1/Poster-1/Folder-2, Newsletter-01, Book Chapter-01)	05
Newspaper coverage	14
Popular articles	09
Radio Talks	03
TV Talks	00
Animal health Camps (Number of animals treated)	2 Camps (134 Animal Treated)
Others (pl. Specify) Live Telecast of PM-KISAN Yojana, Webcasting	03 Programs
International Potato Conference	(206 Participants)
Total	36

Extension Activities

Field Days

Field Day On Fodder Crop Sorghum COFS-29

Field Day on Use of Area specific mineral mixture for pundharpuri buffalo



Field Day on Management of Soybean Leaf Defoliators.



Field Day on improving productivity of Soybean by using improved variety PhuleSangam (KDS-726).



Field Day on Use of Mitten for Soybean Harvesting



Field Day on new rice variety Phule Samrudhi.



Field Day On Use of Protocols In Mastitis Management



Field day on improve the productivity of sugarcane by adoption of suitable plant spacing and INM on the basis on soil Testing





Field Day on improving productivity of Rabi Sorghum by using improved variety Phule Revti



Field Day on Spiral Seprator



Field Day on Solar Dryer



Field Day on Milking Stool & Stand



Field Day on Yield improvement in sugarcane by using multi macro & micro nutrient grade



Field Day on Yield improvement in soybean by using Integrated Nutrient Management (INM)



Extension Activities





Campaigns

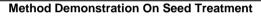
Animal Health Campaign



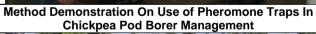


METHOD DEMONSTRATION

Method demonstration on mineral mixture









Method Demonstration On Use of Bird Perches In Chickpea Pod Borer Management





Group Discussion

Self Help group convey meeting on agro-based income generation activities.





Group meeting on Fodder Production Technology.



Group Discussion on Soil & Water Testing.



Important Days Celebrations

World Soil Day, 25 December, 2020

National Farmers Day 23 December, 2020



Celebration of ICAR Foundation day 2020



National Constitution Day 26th November, 2020





Live Telecast PRADHAN MANTRI KISAN SAMMAN NIDHI YOJANA





Scientist Farmers Interface Meet















3.6 Online activities during year 2020

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webexetc)	Title of Program	No. of Programmes	No. of Participants/ Views			
Α	Farmers training							
1		Zoom	Integrated Crop Management of Rice & Soybean.	02	29			
2		Zoom	Management of White grub in Sugarcane	05	105			
3		YouTube	Care & Management of Animal During Winter Season	01	106			
4		Zoom	Use of mobile apps for agricultural information.	01	18			
5		Google meet	Formation and Management of Farmer Producer Company	01	68			
	Total			10	326			
В	Farmers scientist's inte	raction programme	T =					
1	Group Meeting	Video Conferencing	Pest status in sugarcane and other vegetable crops and their management	02	16			
	Total			02	16			
С	Farmers seminars							
1	Webinar		Webinar on Formation of Farmer Producer Organization (FPO) for Aatmnirbhar Bharat.	01	131			
2	e-talk		e-Talk on Digital Platforms for Effective Outreach	01	161			
3	Webinar		Webinar on "Women Farmers: Engineered a new age farming transformations'	01	500			
4	Workshop		Transforming animal husbandry sector	01	450			
	Total			04	1242			
D	Expert lectures							
1		Zoom	State level online training programme on sustainable sugarcane production techniques.	01	517			

2		FACEBOOK	Facebook live programme on innovative strategies for farmers during COVID-19.	01	2840
	Total			02	3357
Е	Any other (Pl. specify)				•
1	Live telecast		Webcasting of Hon. Prime Minister on Global Potato Conclave 2020.	01	36
2	Live telecast		Live Telecast of PM Kisan Samman Nidhi IInd installment and release of 1 lakh crore agricultural infrastructure fund by Hon.PM Shri Narendra Modi	02	121
	Total			03	157
	Grand Total (A+B+C+D+E)			21	5098

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

Production of seeds by the KVKs -NIL

	Name of the 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 -NIL

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits						
Ornamental plants						

Medicinal and Aromatic			
Plantation			
Spices			
Tuber			
Fodder crop saplings			
Forest Species			
Others			
Total			

Production of Bio-Products -NIL

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 -NIL

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	Impact of COVID-19 on Agriculture and Allied Sectors	A.K. Singh, Lakhan Singh and Sunil Kumar	01
Technical reports			
News letters	Siddhagiri Sheti Ved		03
Technical bulletins			
Popular articles	FPO, Locust control, FFS, Tamarind, Focal Strategies,	Sunil kumar	05
Extension literature	Farmer Producer Company	Sunil kumar	01
Others (Posters)			
TOTAL			10

C. Details of Electronic Media Produced

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

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	KVK KANERI KOLHAPUR	401
2	Facebook page/ Account	KVK KANERI KOLHAPUR	3,292
3	Mobile Apps	-	-
4	WhatsApp groups	Total Groups (23)	1450
5	Twitter Account	KVK KANERI KOLHAPUR	-

E. 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 Stories-1

Title: Biscuits made them Entrepreneur

Background Mrs. Jayshree Patil & Urmila Patil, as an entrepreneur started their biscuit making unit in 2017 in Mouje Sangoan Village of Kagal Taluka, District Kolhapur, Maharashtra. Collectively they have 04 acre of land and growing multi crop at a time round the year. They grow Sugarcane and other vegetable round the year. They wanted to establish self-reliant home scale unit of food processing apart from farming, so they choose biscuit making as an enterprise to earn more income and supporting their family financially.

Interventions

Process: Initially with the financial help from their family members and husband, they purchased the different equipment such as oven and mixer for making biscuit of Rs. 01 Lakh on credit. Keeping money for purchase of raw material, the profit from biscuit were used to pay the outstanding loan. They paid the loan within two years. Their families are providing full freedom for doing business and emerged as a role model for women.



Technology

They got the training from various sources and started biscuit making unit. They gave the brand name to their product as "Shri Narsinh Gharghuti Biscuit". These biscuits have been supplied as per telephonic calls and direct sale from home. Home delivery facility is also available. Based on assessment of present market trend and demand of biscuit they produce the quantity. They have made different types of biscuits such as, Wheat biscuits, American cookies, coconut Biscuit, Chocolate Gooseberry, Nice Naankatai biscuit, Kaju biscuit, Finger millet biscuit (Nachni Biscuit). Apart from these, different types of fasting biscuit were also made. These fasting biscuits are made of from flour of Rajgira and Saabudana. For Wheat biscuit, they use organic wheat grown on their field, which has good taste and got appreciation from customers. That's why there was no need for promotion of biscuits. Its demand was highest observed in the month of Shravan (July-August). American cookies demand is more in the nearby market and they have been supplied more to the market due to less competition in American cookies. It is consumed more by children due to its taste and have high demand in market nearby MoujeSangaon



and Kagal area. At peak season, there is high demand and in one day 10-15 kg of biscuit is being prepared. Some people who wish to prepare biscuit for home consumption, they have been provided biscuit as applied labour charge of Rs. 70 Per Kg of biscuit. For producing 1 kg of biscuit it takes 1-2 hours.

Impact

Economic gains: Wheat biscuit sell at Rs. 120/kg and other biscuits sell at Rs. 140/kg. Fasting biscuits sold at Rs. 240/kg. A weekly production of 200 kg of biscuit has been incurred as per demand. In 2017-18, a total of 1000 kg of biscuit was produced and a net income of 37,500 was obtained. In 2018-19, 2500 kg of biscuits was produced and gave a net income of 93750. In the year 2019-20, 4200 kg of biscuit was produced and 1,57,500 was obtained. Apart from this, from agriculture around 1.8 lakh was obtained as net income.

SUCCESS STORY-2

Background:

Name	Mrs. Surekha Ajit Parit		
Address	Shendur, Tal. Kagal, Dist. Kolhapur		
Area under Nutrition Garden	0.0375 Acre (1.5 R)		
Number of Family Members	05		
Mobile No.	9503573531		



Women are the major worker of agriculture and allied sector activities. Mrs. Surekha Parit lives in Shendur village of kagal Taluka,

Kolhapur is doing farming as ancestral occupation. She is growing Rice, Soybean and Groundnut, Jawar, Gram and wheat. She has established a nutrition garden and fulfilled his family daily requirement.

Major crops and impact

Sr.	Food	Crop	Yield(Kg)	Market Price	Money Save
No.	Groups	Стор	January to May 2020	(Rs.)	(Rs.)
1		Spinach	23.5 (94 Judi)	40	940
2		Fenugreek	26.5 (106 Judi)	40	1060
3		Shepu	15 (60 Judi)	40	600
4		Ambadi	24 (96 Judi)	40	960
5	Leafy	Colocasia	13.5 (54 Judi)	30	405
6	Vegetables	Curry leaves	6	70	420
7		Ambat Chukka	11	30	330
8		Cabbage	8.3	35	290
9		Drumstick leaves	7.5	20	150
10		Tomato	37.5	20	750
11		Brinjal	41.5	30	1245
12		Chili	8	40	320
13		Cauliflower	30	30	900
14	Other	Okra	28.5	30	855
15	Vegetables	Bitter gourd	15	40	600
16	vegetables	Drumstick	7	60	420
17		Ridge gourd	13.5	40	540
18		Clustered bean	7	40	280
19		Knolkhol	7.5	50	375
20		Pumpkin	16	20	320
21		Onion	11	20	220
22	Roots and	Raddish	33.5	25	837
23	Tubers	Carrot	8	40	320
24		Beetroot	22.5	40	900
			Total		14037

With the guidance of Shri Siddhagiri Krishi Vigyan Kendra, Kaneri, Kolhapur, Mrs. Surekha Parit has developed the nutrition garden and grows different leafy vegetables (Cabbage, Ambadi, Spinach, Fenugreek, Curry leaves, etc.), under major vegetables (Tomato, Brinjal, Chili, Cauliflower, Okra, Bitter gourd, Ridge gourd, Knolkhol etc.) and Roots and Tubers crops (Onion, Raddish etc.). Mrs. Surekha Parit has saved Rs. 14037 in vegetable purchase from nutritional garden.

Impact: After seeing Mrs. Surekha Parit's nutritional garden, the other women farmers got motivated and some of the women farmers developed other nutritional garden in their available land. She has also done saving from nutritional garden and keeping her family health at most priority, cooking organically grown food/vegetable.

Future Plan: Mrs. Surekha Parit has planned to develop a small food processing unit based on experience of nutritional garden. She has planned to dried vegetable in urban areas of Kolhapur along with her already developed food products.

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

Scientist-farmer interface meeting in every month since july 2020 has been implemented. In this apart from adopted villages of KVK, other village in each month has been selected for the first Tuesday of month. Farmers problems were discussed and adding them to kvk database to reach other villages of KVK jurisdiction.

G. 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) Questionnaire
- 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:

-) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Other if any

For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- 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	Shendur	Kagal	2019-20
2	Bediv	Bhudargad	2019-20
3	Hanmantwadi	Gadhinglaj	2019-20
4	Bhadvanwadi	Ajara	2019-20
5	Turkewadi	Chandgad	2019-20
6	Kogil Budruk	Karveer	2020

(ii) No. of farm families selected per villages

Sr. No.	Name of village	Block	Farm families selected
1	Shendur	Kagal	320
2	Bediv	Bhudargad	45
3	Hanmantwadi	Gadhinglaj	80
4	Bhadvanwadi	Ajara	110
5	Turkewadi	Chandgad	70
6	KogilBudruk	Karveer	230

(iii) No. of survey/PRA conducted: 06 (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 technologies found suitable by the farmers of the adopted villages	
Technology taken to Village	

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

Name of technology	Producti	vity qt/ha	Net Income Rs./ha		Impact of technology
	T ₁	T ₂	T ₁	T ₂	

^{*-} Kg cocoon/100 DFL **- Milk Lit/Day

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

Sr.	Crop/	Toohnology	Horizon	tal spread of tec	hnology
No	Enterprise	Technology 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
- No. of technologies taken to the adopted villages: iv.
- 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	Families Selected	Suitable technology
1				
2				
3				
4				
5				
6				
7				
8				
9				

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	02	Shendur	Done
2	02	Turkewadi	Done

6. LINKAGES

A. Functional linkage with different organizations

Sr.	Name of organization	Nature of linkage
1	ATMA	Training Programme Skill Oriented Training Programme for Rural Youth (STRY)
2	AGRI DEPARTMENT	Resource person in programme arranged under unnat sheti samruddh shetkari scheme
3	SAU	Collaborative programme with scientists of medicinal and aromatic plant unit, MPKV Rahuri.
4	Mahatma PhuleKrishiVidyapeeth, Rahuri (MPKV)	Review and planning of KVK activities including action plan, policies and implementation for agricultural field problems, ZREAC meeting, collaborative programmes at district and university level.
5	National Agricultural Research Project (NARP)	Conduct of SAC meeting, field diagnostic visits and publicity of front line demonstrations and on farm advice, conduct of Krishimela, field days and other extension activities.
6	State Department of Animal Husbandry	Jointly implementation of various programs of Livestock
7	Doordarshan	Broadcasting of technical information regarding agriculture and KVK activities.
8	Indian Council of Agricultural Research (ICAR)	Procuring scientific and technical information, strengthening of KVK activities, to keep liaison between ICAR authorities and host institute
9	All India Radio – Kolhapur	Broadcasting of radio talks for farmers of Kolhapur district on technical issues and Information.
10	Local village panchyat and ZillaParishad	Involvement for the conduct of front line demonstrations, on farm testings, training programmes, rallies and other related programmes.
11	MAVIM (MahilaArthikVikasMahamandal) – 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

Other						
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	12	08	04	-	
4	Demonstrations	-	-	-	-	
5	Extension Programs	-	-	-	-	
6	Kisan Mela	-	-	-	-	
7	Technology Week	-	-	-	-	
8	Exposure visit	-	-	-	-	
9	Exhibition	-	-	-	-	
10	Soil health camps	-	-	-	-	
11	Animal Health Campaigns	-	-	-	-	
12	Others (Pl. specify)	-	-	-	-	
13	Publications	-	-	-	-	
14	Video Films	-	-	-	-	
15	Books	-	-	-	-	
16	Extension Literature	-	-	-	-	

17	Pamphlets	-	-	-	-
18	Others (Pl. specify)	-	-	-	-
19	19 Other Activities (Kisan Gosthi) -		-	-	-
20	Farmer Scientist interaction	-	-	-	-
21	Integrated Farm Development	-	-	-	-
22	Agri-preneurs development	-	-	-	-

D. Give details of programs implemented under National Horticultural Mission -NIL

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 -NIL

S. No.	Program	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1					

G. Details of linkage with PKVY (Paramparagat Krishi VikasYojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Trainings, Workshops	-	-	-	-

H. Details of linkage with NFSM -NIL

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

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

S. No.	Programme	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

SI. No.	SI. No. Particulars				
1	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

Technology	Feedback

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

Technology	Feedback

11. Technology Week celebration during 2020: No

Period of observing Technology Week: From to

Online / Offline:

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

Number of demonstrations visited by the farmers within KVK campus:

Other Details

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

12. 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.

Name of specific	No. Of		Change in income (Rs.)			
technology/skill transfer	participants	% 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	n pe	ductio er unit /ha)	% increa se in	Trial given to the farmer	Horizont al spread of area	requi	Seed quireme Seed Saving (Kg/ha)		Saving	Fertilize r Require d (Kg/ha)		Fertilizer saving	
	T ₁	T2	yield	s	(Ha)	T ₁	T2	(Kg/h a)	(Rs/h a)	T ₁	T2	(Kg/h a)	(Rs/h a)

rec (N	me uire lah /ha)		oour t (Rs)	sa	bour ving s/ha)	otal aving	Gro Inco		Additional Income (T2-T1)	Net Profit =(12+13)	Villa	ge income (Rs.)
T ₁	T2	T ₁	T2	T ₁	T2		T ₁	T2			T1	T2

Farmer's Feed back:

Socio-economic advantages:

13. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2020	ı	-	-
Feb 2020	ı	-	-
March 2020	-	-	-
April 2020	ı	-	-
May 2020	-	-	-
Jun 2020	-	-	-
Jul 2020	-	-	-
Aug 2020	-	-	-
Sept 2020	-	-	-
Oct 2020	02	295464	-
Nov. 2020	01	212525	-
Dec. 2020	04	590966	-
Total	07	1098955	-

Name of	Message Type	Type of Messages									
KVK		Crop	Livestock	Weather	Marketing	Awarenes s	Other enterprise	Total			
1// ///	Text only	04	03	-	-	-	-	07			
KVK, Kolhapur	Voice only	-	-	-	-	-	-	-			
-II	Voice & Text both	04	03	-	-	-	-	07			
	Total Messages	04	03	-	-	-	-	07			
Total farm	ners Benefitted				212537	7					

14. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

SI.		Year of	Area		tails of production		Amoun	nt (Rs.)	_
No.		establishmen t	(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		De	tails of production	ı	Amount	(Rs.)	
of the crop	Date of sowing	harvest	Area (ha)	Variety	Type of Produce	Qty./ha	Cost of inputs	Gross income	Remarks
Sorghum	16 Nov, 2019	20 March, 2020	2.00	Phule Ravti	Grain	18.2	Rs. 28,300/ha	Rs. 90,600/ha	-
Sugarcane	15 March, 2020	-	4.00	Co-86032	-	-	-	-	Result awaited
Rice	16 July, 2020	7 Nov, 2020	2.00	11 Different Deshi Varieties	Grain	39	Rs. 42,360/ha	Rs. 1,20,200/ha	-
Soybean	12 June, 2020	27 Sep, 2020	2.00	Phule Sangam	Grain	19.2	Rs. 29,600/ha	Rs. 63,275/ha	-

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

SI.			Amou	Amount (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) -NIL

SI.	Name	Deta	ils of production		Amou		
No	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 -NIL

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2020			
February 2020			
March 2020			
April 2020			
May 2020			
June 2020			
July 2020			
August 2020			
September 2020			
October 2020			
November 2020			
December 2020			

F. Database management

S. No	Database target	Database created
1	Farmers Visited to KVK (01)	Voc
2	Organic Farmers (01)	Yes

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

		Details of		Activitie	s conducted			Quantity 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.)	water harvested in '000 litres	Area irrigated / utilization pattern
	NIL								

H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level? Yes/No

If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (R)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
1	Vegetable crops	27	042
1	Fruit crops	8	813

Nutritional Garden developed at Village Level

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
06	Vegetable crops	30	260
06	Fruit crops	16	260

I. Details of Skill Development Trainings organized -NIL

		Name of				No. of pa	ırticipants		
S.No.		role	Duration (hrs)	S	Cs/STs	C	thers	To	otal
Institutes		, ,	Male	Female	Male	Female	Male	Female	

15. 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 2019-20 (Rs. In lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
13.1	Recurring Contingencies			
13.1.1	Pay & Allowances	80	80	80
13.1.2	Traveling allowances	4	4	1.34
13.1.3	Contingencies	8	8	4.41
Α	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance			1.21
В	POL, repair of vehicles, tractor and equipments			0.80
С	Meals for trainees			
D	Teaching material for Training & Demonstrations.			0.65
Ε	Training of extension functionaries			0.75
F	Publication of Extension Lit. for Farmers and extension functionary			
G	Honorarium for Trainers			
Н	On-farm testing (problem oriented)			1.00
1	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			
М	Enterprenureship development program(EDP) Integrated farming System (IFS)			
Ν	Soil test 93ensitive and Printing of soil health cards			
13.1	Total Recurring			
13.2	Non-Recurring Contingencies			
13.2.1	Works	191.42	191.42	153.67
13.2.2	Equipments including SWTL & Furniture	7	7	7
13.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	6.50	6.50	6.50
24.2.4	Library			
13.2	Total Non Recurring			
13.3	REVOLVING FUND			
13.4	GRAND TOTAL (A+B+C)	296.92	296.92	252.92

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
FY 2018-19	0.00	0.00	0.00	0.00
FY 2019-20	0.35	43.54	40.49	3.40

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

Name of the staff	Designation	Title of the training program	Institute where attended	Dates
Dr. Ravindra Singh	Sr. Scientist & Head	Doubling farmers income by 2022: Challenges, opportunities & way forward	Career Point University, Hamirpur	15-17 th February, 2020

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

Name of the village	Total No. of families	Key interventions	No. of farmers covered in each	Change in inc	ome (Rs/unit)
	surveyed implemented intervention	Before	After		
Shendur & Turkewadi	350	Trainings, Workshops, FLD's, OFT's & Seminars etc.	750	57,000	81500

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

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
1	NARI/FSN	01	Trainings, Workshops, FLD's, OFT, Exhibitions etc.	72	200
2	PKVY	01	Trainings, Workshops, Exposure Visit etc.	05	50

19. Details of Progress of ARYA Project -NIL

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

20. Details of SAP

	Types of major Activity conducted- Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting	17	279

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

APR SUMMARY

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

1. Training Programs

Clientele	No. Of Courses	Male	Female	Total participants
Farmers & farm women	63	1201	402	1603
Rural youths	08	138	69	207
Extension functionaries	09	110	60	170
Sponsored Training	-	-	-	-
Vocational Training	08	161	23	184
Total	88	1610	554	2164

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	45	14.6	-
Pulses	15	3.00	-
Cereals	44	12	-
Vegetables	15	1.5	-
Fodder Crops	26	4	-
Other crops	40	14.6	-
Hybrid crops	-	-	-
Total	170	46.7	-
Livestock & Fisheries	26	-	26
Drugery Reduction	30	-	30
Other enterprises	15	-	15
Implements and Machinery	15	6	-
Total	86	6	71
Grand Total	256	52.7	71

3. Technology Assessment

Category	No. Of Technology Assessed & Refined	No. Of Trials	No. Of Farmers
Technology Assessed			
Crops	06	84	84
Livestock	2	26	26
Various enterprises	-	-	-
Women & Child Care	01	15	15
Nutrition Security	01	15	15
Total	10	140	140

4. Extension Programs

Category	No. of Programmes	Total Participants
Extension activities	459	28,401
Other extension activities	36	340
Total	495	28741

5. Mobile Advisory Services

Name of			Type of Messages					
KVK	Message Type	Cro p	Livesto ck	Weath er	Marketi ng	Awarene ss	Other enterprise	Tot al
	Text only	04	03	-	-	-	-	07
	Voice only	-	-	-	-	-	-	-
KVK,	Voice & Text both	04	03	-	-	-	-	07
Kolhapur-II	Total Messages	04	03	-	-	-	-	07
	Total farmers Benefitted				2125	37		

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	01
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	01
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	02
13	Proceedings	01
14	Award & recognition	-
15	Ongoing research projects	-