ANNUAL PROGRESS REPORT

2017-18



Submitted to Dr. Lakhan Singh Director, ICAR-ATARI, Zone-VIII, Pune.

Submitted by Sr. Scientist & Head KRISHI VIGYAN KENDRA, POKHARNI, NANDED

INDEX

Sr.No.	Content	Page No.
01	Details of Organization	03
02	Staff position	04
03	Total Land & Infrastructure development	05
04	Details of District	7-8
05	Details of Operational and Thrust area	9-10
06	Training Achievements	11
07	Operational areas details during 2017-18	12
08	Result of OFT	19-42
09	Front Line Demonstration	43-65
10	Training Programme (ON, OFF and Consolidated)	71-94
11	Sponsored Training Programme	94-95
12	Vocational training	96
13	Extension programme	98
14	Production of Seed/Planting Material and Bio- Products	99-101
15	Literature Published	103
16	Success Story	105-110
17	Indigenous Technology	111-112
18	Functional Linkage	114-117
19	Impact of KVK activities	121
20	Performance of instructional Farm including seed production	123-125
21	Utilization of KVK Funds	127
22	Status of revolving Fund	128
23	HRD activities attended by KVK staff	129
24	Summary of Annual Progress Report	130-131

ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2017-18 (1st April 2017 to 31st March 2018)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra, Pokharni,	Office	FAX	luulu memeled	www.kvknanded.
Purna Road, Nanded (MS) Pin	8975899504		kvk_nanded @yahoo.co.in	<u>com</u> , Hits- 11085
code-431 735			@yanoo.co.in	Visitors

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

Address	Telephone		E mail	Website
	Office	FAX		address
Jawaharlal Nehru Institute of Education, Science and Technological Research Trust, Nanded 1, HIG, Colony, Near ITI, Nanded (MS)	02462 - 253643		kvk_nanded@yaho o.co.in	<u>www.kvknande</u> <u>d.com</u>

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Devikant Amrutrao Deshmukh	8975899504	9423140598	drdad1976@gmail.com

1.4. Year of sanction: 1993

1.5. Staff Position (as on March 31, 2018)

SI.		Name of the		If Permane indi	ent, Please cate	Date of	If Temporary, pl. indicate the
Ы. No.	Sanctioned post	incumbent	Discipline	Current Pay Band	Current Grade Pay	joining	consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Vacant					
2.	Subject Matter Specialist	Dr.Deshmukh D. A.	Horticulture	21220	5400	20/01/2009	Permanent
3.	Subject Matter Specialist	Mrs Nadre S. R.	Home Science	20440	5400	03/08/2010	Permanent
4.	Subject Matter Specialist	Mr. Kalyankar M. G.	Plant Protection	19690	5400	04/07/2011	Permanent
5.	Subject Matter Specialist	Mr. Jaybhaye S. H.	Agronomy	18240	5400	01/07/2013	Permanent
6.	Subject Matter Specialist	Dr. Ambore M. N.	Veterinary science	18240	5400	01/07/2013	Permanent
7.	Subject Matter Specialist	Dr.Deshmukh G. P.	Agricultural Extension	17550	5400	15/12/2014	Permanent
8.	Jr.Clerk	Ms. Hadoltikar P S	Clerk	9400	2000	02/06/2003	Permanent
9.	Computer Programmer	Mr. Wadile R. T.	Computer	11950	4200	06/07/2011	Permanent
10.	Farm Manager	Mr. Ingole R. R.	Farm manager	11010	4200	01/07/2013	Permanent
11.	Accountant/Superintendent	Mr. Bhalerao A. G.	Accountant	21090	4200	01/07/1995	Permanent
12.	Stenographer	Mr. Jadhav S. S.	Stenographer	7850	2400	01/08/2007	Permanent
13.	Driver	Mr. Wathore M. S.	Driver	10580	2000	06/05/1997	Permanent
14.	Supporting staff 1	Mr. Gaikwad S. S.	Peon	9150	1800	01/07/1995	Permanent
15.	Supporting staff 2	Mr. Konapure S. R.	Watchman	9150	1800	01/07/1995	Permanent
16.	Supporting staff 3	Mr. Kadam D R	Messenger	7100	1800	02/04/2009	Permanent

1.6. Total land with KVK (in ha) :

S. No.	ltem	Area (ha)
1	Under Buildings	01
2.	Under Demonstration Units	01
3.	Under Crops	12
4.	Horticulture	10
5.	Pond	0.20
6.	Others if any	01

1.7. Infrastructural Development: A) Buildings

Source of Stage								
S.	Name of building	funding	Complete			Incomplete		
No.			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	31.03.1999	2272.73	3614539/-	1998		Complete
2.	Farmers Hostel	ICAR	31.03.2005	308.02	2423000/-	2003		Complete
3.	Staff Quarters (6)	ICAR	-	380.14	3034000/-	2006		Complete
4.	Demonstration Units (2)	ICAR	31.03.1997	3060.45 Sq. ft	1242661/-	1996		Complete
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							
9	ICT lab							
10	Other							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2003	4,50,000/-	4970 hrs	Good
Motorcycle	1996	43,804/-		Scraped
Bolero Jeep	2006	5,61,000/-	263968 km	Good

C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Zenith Camera	1995	4950	Good
Kodak Camera	1997	800	Good
Television	1996	14240	Good
Slide Projector and Overhead Projector	1996	31925	Good
Furniture	1995	64195	Good
Bench	2005	100000	Good
Typewriters	1995	22560	Good
Computer With printer etc	2000	54850	Good
Chairs	2000	22500	Good
Fans	2000	2440	Good
Soil and Water Testing Lab	2004	860000	Good
Fax Machine	2006	15000	Good
Mridaparikshak Mini Lab	2015	75000	Good

1.8. Details SAC meeting conducted in the year

Date	Name and Designation of Participants	Salient Recommendations	Action taken

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise			
1	Agriculture + Horticulture.			
2	Agriculture + Siliviculture.			
3	Agriculture + Dairy.			
4	Agriculture + Vegetables.			
5	Horticulture. + Animal Husbandry. + Agriculture.			
6	Agriculture + Animal Husbandry.			

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	Assured Rainfall Zone	
2	Moderate to Moderately High Rainfall Zone (Central Maharashtra Plateau Zone)	

b)Topography

S. No.	Agro ecological situation	Characteristics
1	Assured Rainfall Zone	
	Moderate to Moderately High Rainfall Zone (Central Maharashtra Plateau Zone)	

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Shallow black Soil	Depth 15-20 cm	576.26
2	Medium deep black Soil	More calcium & carbonate percentage	101.12
3	Deep black	High soil moisture, holding capacity	394.65

2.4. Area, Production and Productivity of major crops cultivated in the district (2017-18)

S. No	Crop	Area (ha)(00')	Production (Qt/ha)	Productivity (Qt./ha)
1	Kharif Sorghum	614.98	3971.72	6.45
2	Green gram	283.51	838.45	2.95
3	Black gram	334.29	880.82	2.63
4	Red gram	634.36	5659.18	8.92
5	Soybean	3179.57	25417.48	7.99
6	Cotton	2697.79	14476.34	5.36
7	Rabi sorghum	293.25	3754.99	12.80
8	Wheat	186.87	2681.47	14.34
9	Bengal gram	1144.27	14265.61	12.46
10	Safflower	23.29	186.49	08
11	Maize	5.99	131.48	21.95
12	Sugarcane	00	00	00
13	Summer Groundnut	38.68	401.38	10.97
14	Sesamum	5.96	12.09	2.03

Source: District agriculture department.

2.5. Weather data (2017-18)

Manth	Dainfall (mm)	Temper	rature 0 C	Relative H	umidity (%)
Month	Rainfall (mm)	Maximum	Minimum	Maximum	Minimum
April 2017	0.1	43.05	24.4	37.6	22.1
May 2017	5.8	43.6	29.16	35.4	21.5
June 2017	167.7	38.33	26.11	54.3	27.4
July 2017	108.4	31.66	24.44	74.0	69.1
August 2017	233.2	31.11	24.4	67.9	27.7
September 2017	65.3	33.88	23.88	47.8	24.6
October 2017	59.0	33.33	21.38	70.4	40.4
November 2017	00	33.38	18.05	47.8	37.6
December 2017	00	31.11	15.83		
January 2018	00	32.77	15	78.4	75.9
February 2018	12.7	32.5	18.61	79.5	69.4
March 2018	5.1	32.5	18.88	74.3	39.5
Total	657.3	417.22	260.14	667.4	455.2

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

Category	Population	Production	Productivity
Cattle			
Crossbred	15287	161.372 lakh kg milk	3.51 kg/day/cow
Indigenous	635016	912.070 lakh kg	0.47 kg/day/cow
Buffalo	211721	1174.402 lakh kg	1.84 kg/day/buffalo
Sheep			
Crossbred	2510		
Indigenous	38663	0.54 lakh kg wool	1.02 kg/wool/sheep
Goats	253302	89.54 lakh kg milk	0.002 kg/goat/day
Pigs	13004		
Crossbred	1490		
Indigenous	11514		
Rabbits	553		
Poultry			
Hens	361487		
Desi	173000	213.06 lakh eggs	123 egg/bird/annum
Category		Production (Q.)	Productivity
Fish (Reservoir)			

2.7. Details of Operational area / Villages

Taluka	Nam e of the bloc k	Name of the village	Major crops & enterprises		Identified Thrust Areas
Hadga on	Hadg oan	Manatha	Soybean, cotton, turmeric, Bengal gram, Agriculture, Horticulture, Animal Husbandry	Lack of knowledge, adoption of improved variety	Horticulture, Agriculture
Hadga on	Hadg oan	Manatha	Cotton	 Sowing of Cotton in light soil &rainfed situation. Management practices(wider spacing, Seed treatment, No proper gap filling, Protective irrigation at critical stages) Imbalance nutrient management (Soil test Based Fertilizer application Inadequate & low Quality organic matter used) Improper Pest, diseases management. 	Method, quantity & time of fertilizer application. -Integrated Nutrient Management -Integrated pest & diseases management
Hadga on	Hadg oan	Manatha	Soybean	Unawareness about New variety, - No use of good utility Seed - Imbalance nutrient management (No use of 2%foliar spray of Urea) - Improper Pest, diseases mag	New Varity - Integrated Nutrient Management -Proper Pest & Diseases management.
Hadga on	Hadg oan	Manatha	Red gram/green gram/black gram	 Imbalance nutrient Management Excess Urea Application Improper pest & disease management 	Integrated Nutrient Management. -Foliar Application of 2% Urea - Integrated pest & Diseases management.
Hadga on	Hadg oan	Manatha	Wheat	Low yield due to use of traditional crop varieties -Improper Sowing time -Imbalance nutrient management	Importance of New High Yielding Varieties. - Nutrient management.
Hadga on	Hadg oan		Groundnut	- Unawareness about New Technology Secondary and micronutrient deficiencie	BBF or Polyethelin Mulching -Nutrient Management. -Proper Pest & Diseases management.

Mudkh ed	Mudk hed	Rohi pimpalgao n tanda, Amdura, Vasantwad i (sansad adarsh gram)	Sugarcane, Banana, Soybean, cotton, turmeric, Agriculture, Horticulture, Animal Husbandry	Chlorosis content water, Adoption of micro irrigation	Animal Husbandry, Agriculture
Ardhap ur	Ardh apur	Kamtha, Deloob, Shelgaon	Red gram, Green gram, Black gram, Soybean, Bengal gram	Lack of Knowledge on improved variety, Less awareness about seed treatment	Agriculture

2.8. Priority thrust areas:

Crop / Enterprise	Thrust Area
Cereals	
Maize	Integrated Nutrient Management, Weed Management, Crop Diversification
Sorghum	Integrated Nutrient Management , pest Management
wheat	Variety, Integrated Nutrient Management
Oilseed	
soybean	Variety, Integrated Nutrient Management, Integrated pest
Management Mechanization	Variety, INM, IPM, Improved technology (Use of polythene
Mulch & BBF)	Pulses
Greengram/Blackgram Variety, Integrated	Pigeon pea Variety, Integrated Nutrient
Nutrient Management, pest management	Management, pest management
Bengal gram Variety, Integrated Nutrient Management, pest management	Fiber crop
Cotton Integrated Nutrient Management, Integrated pest Management,	Mechanization.
Crop / Enterprise Thrust Area	Cereals
Maize Integrated Nutrient Management, Weed Management, Crop	Diversification
Sorghum Integrated Nutrient Management, pest Management	Wheat Variety, Integrated Nutrient Management
Oilseed	Soybean Variety, Integrated Nutrient Management, Integrated pest
Management Mechanization	Groundnut Variety, INM, IPM, Improved technology (Use of polythene
Mulch & BBF)	Pulses
Greengram/Blackgram Variety, Integrated	Pigeon pea Variety, Integrated Nutrient
Nutrient Management, pest management	Management, pest management

3. TECHNICAL ACHIEVEMENTS

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

OFT					FLD			
1					2			
Number of OFTs Number of farmers			Nu	Number of FLDs		nber of farmers		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
13	11	80	60	22	19	800	711	

Training					Extension Programmes			
		3				4		
Number of Courses Number of Participants		Numb	Number of Programmes		er of participants			
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
110	89	3000	2654	550	460	15000	12332	

Seed	Production (Qtl.)		Planting materials (Nos.)		
	5		6		
Target	Achievement	Target	Achievement		
200	145.5	17500	16104		

Livestock, poultry	strains and fingerlings (No.)	Bio	Bio-products (Kg)		
	7		8		
Target	Achievement	Target	Achievement		
60	51	600	535		

3.1. B. Operational areas details during 2017-18

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)
01	Cotton	Low productivity of cotton hybrids High cost of cultivation Dry spell at critical stages Inefficient water use.	100	Manatha, Niwgha, Niwgha(bz).	OFT.
02	Soybean	Low productivity of soybean under rainfed medium black	50	Vasantwadi, Pandharwadi, Bhosi, Kharbi	OFT, Training
03	Pigeon pea	Pod Shattering problems Low productivity of pigeon pea	70	Dhanora, Sayal, Waghi, Dhoki	FLD, Training
03	Banana	Inadequate nutrition	100	Shemboli, Barad, Lahan, Ione	OFT, FLD, Training
04	Dallalla	Heavy attack of insect and pest	100		OF 1, 1 LD, Training
		Supply of fertilizers less than recommended			
		Non availability of irrigation water during summer.			
		Less use of drip irrigation			
		Incidence of Sigatoga			
		High cost of inputs and high cost of production.			
05	Chilly Tomato	Unscientific raising of seedling	25	Vasantwadi, Chikala, Shankarwadi	FLD, Training
		Heavy pest & disease infestation			
		Imbalance Nutrient management.			
		Unscientific raising of seedling.			
		Heavy pest & disease infestation			
		Imbalance Nutrient management			
06	Turmeric	Small Size of Rhizome, Long Duration of Variety, Less curcumin percentage,Less Dry recovery, Less Average yield (kg/ha).	70	Nageli, Dongargaon, Waghi, Dhoki, Sayal, Talni.	OFT, Training

3.2. Technology Assessment and Refinement A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereal s	Oilse eds	Pulses	Commerc ial Crops	Vegeta bles	Fruits	Flower	Plantation crops	Tuber Crops	Total
Integrated Nutrient Management				01						
Varietal Evaluation		01			01		01			
Integrated Pest Management										
Integrated Crop Management						01				
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology		01								
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total										

A2. Abstract on the number of technologies refined in respect of crops

Thematic areas	Cereals	Oilsee ds	Pulses	Commerci al Crops	Veget ables	Fruits	Flower	Plantation crops	Tuber Crops	Total
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation										
Enterprises										<u> </u>
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total										

A3. Abstract on the number of technologies assessed in respect of livestock enterprises

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

A4. Abstract on the number of technologies refined in respect of livestock enterprises

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

B. Achievements on technologies Assessed and Refined 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 Management	cotton	Assessment of effect of soil quality index (SQI)on productivity of cotton based cropping system under rain fed condition			
Varietal Evaluation	Tomato	Assessment of High yield F1 Triple disease resistant of Tomato Arka Rakshak	05	05	1 ha
Integrated Pest Management	Tomato	Assessment of Integrated Pest Management in Tomato with triple disease resistant cultivar Arka Rakshak	05	05	1 ha
Integrated Crop Management	Banana	Application of Panchagavya	10	10	2 ha
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 Refined 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 Management					
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.3. 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	Cattle	Integrated Control of Ticks & Fly in Cattle shed	05	05
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises	Goat	Use of Oxyclozanide dewormer & Mineral mixture in Goats.	05	05
Total			10	10

B.4. Technologies Refined 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				

C1.Results of Technologies Assessed-Discipline- Agronomy Results of On Farm Trial - 1

Crop/ enterp rise	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technolo gy Assessed	Parameters of assessment	Data on the param eter	Results of assessment	Feedback from the farmer	Any refinem ent needed	Justifica tion for refinem ent
1	2	3	4	5	6	7	8	9	10	11	12
soybe an	rainfed	No use of improved variety its due to low productivity.	Assessm ents of improved variety of soybean	5	Local variety JS 335	1) No of pods / Plant 2) No of grain/pod.	60 to 80 2 to 3	The result showed that the cultivation of varieties MACS 1188 and KDS	1) Bold seeded variety. 2) Number of branches		
		2) Yellow mosaic disease problem 3) Unbalanced fertilizer application.	(MACS 1188) and KDS 344 with local variety to increase productivi ty		Assessm ent of improved variety MACS- 1188 and KDS-344	2) No of pods / Plant 3)No of grain/pod	170 and 175 3 to 4	344 gave number of pods/plant 170 and 175 Respectively and Grain yield 22. 5qt/ha and 19.75 qt /ha respectively with BC ratio of 2. 61 and 2.29 respectively as against farmers variety of JS 335 with number of pods/plant – 60 to80 and Grain yield of 14.8 qt/ha with BC ratio of 1.82	and number of pods per plant is more seed yield is obtaining as compare to local. 4) One life saving irrigation is required. 5) Less infestation of pest and diseases. 6)No pod shuttering		

cott on	irrigat ed). In rain fed farming areas, farmers use fertilizers	Assess ment of Effect of soil quality index	05	use of chemical fertilizer only.	Number of branches. Boll weight of cotton Yield of cotton B:C ratio	8-10 4-5	Use of FYM 5 ton/ha + Bio-fertilizers + RDF as per ST applied all nutrients	As per soil test based fertilizer applicatio n reduced	
		without any recommen dations resulting in poor crop yield.	(SQI) on product ivity of cotton based		Assessm ent of Soil test based use of recomme	values of soil organic carbon at rhizosphere Number of Branches	N-L/M P-L K-Mod	resulted in increase number of branches, plant, Boll weight of cotton, yield against the	the fertilizer cost and dose	
			croppin g system under rain fed conditi on		nded dose of fertilizer organic manure, biofertiliz er along with micronutri ent. (FYM 5 t/ha + Bio- fertilizers + STBF & micronutri ents.	Boll weight of cotton	5-7	farmers practice		

soybe an	rainfed	 Irregular belviour of rain 2.Less mois re at importation t critical growth stag Intensity 25% reduction in yield due to moisture stress at 	fal Moisture conservat tu ion in an Soybean under es medium		Assessm ent of Soil moist ure conse rvation by opening furrow							
Contd		growth stag	9.									
	inology As	sessed	Source of Tech	nology	Produ	ction		•	unit (kg/ha, t/ha, lm, nuts/palm/year)	Net Return (Profit) in Rs unit		3C Ratio
	13		14		15	,			16	17		18
	nology op [:] mer's prac		e local variety	Js 335	14.8		Qt/ha		20100		1.82	
	nology op		MACS 1188	3	22.5)		Q	t/ha	41700		2. 61
Tech	nology op	tion 3	KDS 344		19.7	5		Q	i/ha	33450		2.29

C1.Results of Technologies Assessed-Discipline- Plant Protection Results of On Farm Trial - 1

Crop/ enterp rise	Farming situation	Problem definition	Title of OFT	No. of trials	Technolo gy Assessed	Parameters of assessment	Data on the paramet er	Results of assessment	Feedback from the farmer	Any refinem ent needed	Justifica tion for refinem ent
1	2	3	4	5	6	7	8	9	10	11	12
Tomat o	Irrigated	Particularly the pest and disease like white fly, Thrips, leaf curl etc. near about 65% yield losses were found due to only leaf curl virus disease.	Assessm ent of Integrate d Pest Manage ment in Tomato with triple disease resistant cultivar Arka Rakshak	05	IPM Technolo gy with Triple disease resistant F1 hybrid variety Arka Rakasha k	1)% incidence of diseases 2) % incidence of pest	4.8 to 15.5 2.7 to 16.5	The average % of incidence of disease recorded in the recommended practice is 4.8 to 15.5 % and it was 12 to 47% in farmers practice. The average % incidence of insect pest is 2.7 to 16.5%. and it was observed 7 to 36% in farmers practice.	The Arkarakshak Variety of Tomato resistant to leaf curl virus disease, early blight and bacterial wilt is suitable with IPM technology for reducing the cost of plant protection.		
Contd		1	1	1	<u> </u>	1	1	1		<u> </u>	1

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	Spraying of chemical insecticides and fungicides	54000	Kg/ha	340000	1:2.70
Technology option 2	IPM technology	61500	Kg/ha	470000	1:4.35

Discipline- Plant Protection Results of On Farm Trial - 2

13

Technology option 1

Technology option 2

(Farmer's practice)

Crop/ enterpris e	Farmin g situatio n 2	Problem definition 3	Title of OFT	No. of trials 5	Technolog y Assessed 6	Parameters of assessment 7	Data on the parameter 8	Results of assessme nt 9	Feedbac k from the farmer 10	Any refinem ent needed 11	Justificati on for refineme nt 12
Sericul ture	Irrigat ed	Poor Quality & Low Cocoon Yield	Effect of growth hormone On cocoon yield and quality	05	Regular feeding of Mulberry leaves with Spray of Spray of Sammri dhi or Serimor e@ 5ml Ampul/5 0 DFL	1.Cocoon (gm) 2.Yield (kg / 100 DFL)	0.38 84.50	16.55% Cocoon yield increas ed over local check			
Contd Techr	nology Ass	essed S	Source of Techn	ology	Pr	oduction	unit (kg/ lit/ar	give the /ha, t/ha, nimal, /palm,	Net Retu (Profit) in F unit		3C Ratio

15

72.50

84.50

14

-

Central Silk Research

and Training Institute,

Mysore

nuts/palm/year)

16

kg

kg

17

20925

26125

18

2.78

3.19

Discipline- Home science Results of On Farm Trial - 1

Crop/ enterpris e	Farmin g situatio n	Problem definitior		No. of trials	Technolog y Assessed	Parameters of assessment	Data on the parameter	Results of assessme nt	Feedbac k from the farmer	Any refinem ent needed	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Bengal gram	Irrigated	Dust & Pollution in Threshing.	To access the suitability of Noise and	10	Use of Noise and dust	1) Heart rate energy expenditure	105 (b.m) 7.97				
		1) Low work efficiency.	controlling		controlling mask	2) Working efficiency	46%				
		2) More drudgery prone.	mask in threshing operation			3) Health Problem	40%				
Contd		prono.	oporation								
	ology Ass	essed	Source of Techno	ology	Pr	oduction	unit (kg, lit/ar nuts/	give the /ha, t/ha, nimal, /palm, Im/year)	Net Retu (Profit) in F unit		3C Ratio
	13		14			15		6	17		18
	nology option 1 VNMKV Parbhani Rs.150 per day Rs.150/-										
Technolog	y option 2		Noise & Dust contr	oller	Rs.30	0 per day			Rs.300/-		1.2

Discipline- Home science Results of On Farm Trial - 2

Crop/ enterpris e	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technolog y Assessed	Parameters of assessment	Data on the parameter	Results of assessme nt	Feedbac k from the farmer	Any refinem ent needed	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Vegetabl e	Irrigated	Spoilage of vegetable less	Assessment of Zero	05	Zero energy	1)Temperat ure	23				
		price due to lack storage,	energy chambers		chambers for	2) Humidity	82				
		Lack of knowledge regarding scientific storage	for vegetable storage		vegetable storage	3) Weight losses	10 to 12 %				
Contd		U			-					• •	
Technology Assessed Source of Technology			Pr	oduction	unit (kg, lit/ar nuts/	give the /ha, t/ha, nimal, /palm, Im/year)	Net Retu (Profit) in F unit		BC Ratio		
	13		14			15		6	17		18
Technology option 1 (Farmer's practice)		R	Rs.200/-			Rs.200/-					
Technolog	y option 2		PDKV Akola		Rs	.1000/-			Rs.1000/-	•	1.2

Discipline- Home science Results of On Farm Trial - 3

Crop/ enterpris e	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Techn ology Assess ed	Parameters of assessment	Data on the parameter	Results of assessment	Feedbac k from the farmer	Any refinem ent needed	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Watertrol ly		 Pain in hand fingers shoulder, Knees, Low work capacity. More time & energy consumptio n fatigues 	Assessme nt the suitability of water trolly	05	Water trolly	 Energy expenditure Distance covered Output 	8.17 10 meter 80 liter water	The average % of energy expenditure recorded in recommended practices 8.77 & it was reduction in 90.15 % in energy expenditure farmer practice 40 liter water in 15 minute. Recommender practice is 80 liters water coming in 15 minute.			

Conta	С	ο	n	It	d			
-------	---	---	---	----	---	--	--	--

Contu					
Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		40 liter water			
Technology option 2		80 liter water			1.2

Discipline- Veterinary science Results of On Farm Trial - 1

				r						r	
Crop/ enterpris e	Farmin g situatio n	Problem definition	Title of OFT	No. of trials	Technolog y Assessed	Parameters of assessment	Data on the parameter	Results of assessme nt	Feedbac k from the farmer	Any refinem ent needed	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Cattle		Ectoparasites like ticks & fly are very common and due to that the production in Milking animals were affected	Integrated Control of Ticks & Fly Cattle Shed	05	Spraying of neem oil 30 ml, Karanj oil 15 ml and 20 gm soap solution / liter with Knap sack sprayer @ 30 ml/m ² area	1) Milk production 2) % of disease occurrence	T1- Spraying of 1% Cypermeth rin and Amitraz.	1.5 lit/ days increasing			

Contd...

ooma					
Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		3 liter/ day / animal	Lit/animal	3000/- per unit	
Technology option 2	MAFSU, Nagpur	4.5 lit/day/animal	Lit/animal	4890/- per unit	
Technology option 3					

Crop/ enterpri se	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameter s of assessme nt	Data on the parameter	Results of assessme nt	Feedbac k from the farmer	Any refinem ent needed	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Goat	Rain fed area	In rainy season from last two years snails area found in large which area carriers of liver fluke worms in Goats. Due to lack of minerals and vitamins reproductive disorders are more periparturant and after parturition.	Use of Oxyclozanid e dewormer & Mineral mixture in Goats.	05	T2- Oxyclozanid e & Levamisol combination suspension was drenched according to the body weight and age of Goats before rainy season i.e in last week of May.	 Conceptio n rate. Mortality % 	 Conceptio n rate in %- 76% Conceptio n rate in %- 84% 	 Yield mortality- 10.43 %. Yield mortality- 2% 			

Results of On Farm Trial - 2

Contd..

• • • • • • • • • • • • • • • • • • •					
Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		3 liter/ day / animal	Lit/animal	3000/- per unit	
Technology option 2	MAFSU, Nagpur	4.5 lit/day/animal	Lit/animal	4890/- per unit	

C1.Results of Technologies Assessed- Discipline- Horticulture Results of On Farm Trial - 1

Crop/ enterp rise	Farmi ng situati on	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the paramete r	Results of assessment	Feedback from the farmer	Any refineme nt needed	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Banan a	Irrigat ed	Panchagavy a an organic product has the potential to play the role of promoting growth and providing immunity in plant system	Assessmen t of application of Panchagav ya (an organic product) in Banana	05	Application of Panchagav ya (an organic product) in Banana	 % of Sucking pest attack on bunch. Size of bunch. Weight of bunch. Duration of crop. Overall health of crop/ look. 	10% Medium 22.5 270 days Healthy	In addition to adding with irrigation water (50 lit/ha) and spraying , 3% solution (100 ml) was tied up at Naval end of bunch, after the male bud is removed due to this application bunch size all banana plots becomes uniform and size of top and bottom hands. Beside this in some plots one month early harvest was witnessed.	Farmers were greatly influenced by this technology of Panchagavya application in Banana. Because all the ingredients used for this preparation were available on farmers field and locally beside this cost of assessment is very low as compared to other Bio- products available in market.		

Contd..

ontan					
Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		12.5 tones per unit	t/ha	139575/-	2.21
Technology option 2	TNAU Combatore	19.60 tones per unit	t/ha	236475/-	1.53

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

Discipline:- Agronomy- OFT-1:-

- 1. Title: Assessments of improved variety of soybean (MACS 1188) and KDS 344 with local variety to increase productivity.
- 2. Problem diagnose/defined: 1) Higher cost of cultivation & No use of improved variety its due to low productivity.
 - 2) Yellow mosaic disease problem.
 - 3) Unbalanced fertilizer application.
- 3. Details of technologies selected for assessment/refinement :
 - T1: Farmers practice –JS-335 (low yield susceptible to mosaic pod shattering)
 - T2: Improved varieties- MACS-1188 and KDS-344 (High yielding, and resistant to mosaic, pod borer)
- 4. Source of technology : ARI Pune and MPKV Rahuri.
- 5. Production system: Soybean/cotton/Sorghum- Bengal gram.
- 6. Thematic area : Varietal evaluation.
- 7. Performance of the Technology with performance indicators: The result showed that the cultivation of varieties MACS 1188 and KDS 344 gave number of pods/plant 170 and 175 respectively and Grain yield 22. 5qt/ha and 19.75 qt /ha respectively with BC ratio of 2. 61 and 2.29 respectively as against farmer's variety of JS 335 with number of pods/plant 60 to 80 and Grain yield of 14.8 qt/ha with BC ratio of 1.82.
- 8. Final recommendation for micro level situation: The variety of KDS 344 less pod per plant was more but seed size and grain weight is less as compare to variety of soybean MACS 118.
- 9. Constraints identified and feedback for research: both the variety of soybean MACS 1188 and KDS 344 yield potentially was more but
 10. Process of farmers participation and their reaction: Assessment has been taken as per problem diagnosed, after that village-wise meeting was conducted for selection of farmers. After selecting farmers, training has been given and made aware about complete procedure for assessment. Regular visit of farmers were arranged and necessary suggestions were given to farmers.

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		12.2	Qt/ha	27490	1.77
Technology option 2		17.4	Qt/ha	50410	2. 28

Discipline:- Agronomy- OFT-2:-

1. Title: Effect of soil quality index (SQI) on productivity of cotton based cropping system under rainfed condition Village: At. manatha, Tq. hadgaon

2) Problem diagnose/defined: Without application of FYM, bio-fertilizers & other composting martial, cotton under rainfed condition gives low yield. The cultivation is mainly on shallow and light soils.

3) Details of technologies selected for assessment/refinement:

T 1 – Farmers practice: Farmers practice use of chemical fertilizer

T 2 – Recommended practice: FYM 5 ton/ha + Bio-fertilizers + RDF based on ST+ RDF of micronutrients.

- 4) Source of technology: CICR Nagpur/ VNMKV Parbhani.
- 5) Production system/thematic area: Cotton based cropping system.

6) Thematic area: ICM

7) Performance of the Technology with performance indicators: The result indicated that use of FYM 5 ton/ha + Bio-fertilizers + RDF based on ST+ RDF of micronutrients resulted in increase number of branches – 14-17/plant, Boll weight of cotton – 5-7 gm, Yield – 17.4 qt/ha with B:C ratio of 2.28 against the farmers practice use of chemical fertilizer having number of branches – 8 10/plant, Boll weight of cotton – 4-5 gm, Yield – 12.2 qt/ha with B:C ratio of 1.77.

8) Final recommendation for micro level situation:

9) Constraints identified and feedback for research: Heavy attack of pink bollworm at after 3rd picking its due to reduction yield.

10) Process of farmers participation and their reaction: Selection of villages – Selection of farmers– Selection of fields – Soil testing – Experimental layout in farmer's field as per the treatments –Input collection – Sowing – Field visits - Data collection on various yield attributes – observation on various parameters – yield data collection

Technology Option	No. of trials	Yield (Q/ha)	Net Returns (Rs. in lakh./ha)	B:C ratio	Data on Other performance indicators
Farmers Practice: No opening furrow.	- 05	14.2	18300	1.75	Number of plant Height-80-85 cm. No. of branches-58 .87 No. of pod – -85 No. of root nodule – 18-22. Moisture% - 10% Yield q/ha- 14.2
Technology 1:- Opening furrow after 4 th row.		19.4	32900	2.30	Number of plant Height-80-90 cm. No. of branches-7 No. of pod – 90-100. No. of root nodule – 30-32. Moisture% - 25-30% Yield q/ha- 19.4

Discipline:- Agronomy- OFT-3:-

1.Title: Assessment of Moisture conservation in Soybean under medium black Cotton soil. Village: At. manatha, Tq. hadgaon

2. Problem diagnose/defined: 1) Irregular behaviour of rainfall. 2) Less moisture at important critical growth stages.
 3) Intensity - 25% reduction in yield due to moisture stress at growth stage.

3. Details of technologies selected for assessment/refinement:

T 1 – Farmers practice: Farmers practice no opening furrow.

T 2 – Recommended practice: opening furrow after four row.

4. Source of technology: VNMKV Parbhani

5. Production system/thematic area: moisture soybean Bengal gram

6. Thematic area :moisture conservation technology

7. Performance of the Technology with performance indicators: Result indicate that the opening of furrow after 4th row in soybean crop stand are very good and increase the plant height- 80-90 cm, number of pods / plant – 90-100, number of branches – 7., number of root nodules- 30.-32, Moisture and seed yield- 19.4 qtl/ha with B:C ratio of 2.30 was recorded under one long dry spell situation in August month. 25-30% soil moisture conservation was recorded by the opening furrow after 4th row as compare to no opening furrow. The conserve moisture are increase the plant height root growth and sustain the growth of plant without any reduction at the time of dry spell situation

8) Final recommendation for micro level situation:

9) Constraints identified and feedback for research: .

10) Process of farmers participation and their reaction: Selection of villages – Selection of farmers– Selection of fields – Soil testing – Experimental layout in farmer's field as per the treatments –Input collection – Sowing – Field visits - Data collection on various yield attributes – observation on various parameters – yield data collection.

Discipline:- Plant Protection- OFT-1:-

- 1 Title of Technology Assessed: Assessment of Integrated Pest Management in Tomato with triple disease resistant cultivar Arka Rakshak.
- 2 Problem Definition:- Tomato is one of the major vegetable crops cultivated in Nanded district. The farmers have face different problems in cultivating this crop. Particularly the pest and disease like white fly, Thrips, leaf curl etc. near about 65% yield losses were found due to only leaf curl virus disease. The farmers use only chemical pesticides for managing there problem. It leads the increase in cost of cultivation as well as increasing pesticide pollution which leads hazardous for human health.
- 3 Details of technologies selected for assessment: Nursery.
 - Sowing of seeds in Pro tray.
 - Mixing of Trichoderma in trays.
 - Growing of leaf curl, Bacterial wilt and early blight resistant hybrid Arka Rakshak.
 - Covering nursery insect proof nylon net.

Main field:-

- Drenching with streptocycline.
- Sowing of maize and cow pea crop as barrier crop at border of the main field, 20-25 days before transplanting of tomato seedlings.
- Poly mulching with drip irrigation for early blight and sucking pest.
- Need based spray of Imidaclorpride 17.5 SL@0.4 ml/lit for white fly/thrips.
- Installation of Pheromons traps @5 / ha each for monitoring H. armigora (Fruit borer) and Tuta absulata (Leaf minor).
- Installation of yellow and Blue sticky traps @15/ha each.
- Regular collection and destruction of borer damaged fruit.
- Need based spray of pesticides like Rynaxypyr 20 EC.
- Pophylactic spray of Mancozeb@2.5 g/lit for early and late blight followed by need based application of systematic Propiconazole/ Hexaconarole for early blight and Metalyxyl based fungicides like Ridomil gold (Metalyxyl 80% + Mancozeb 64%), Cymoxanil based fungicide like curret (Cymoxanil 8% + Mancozeb 64%) for late blight.
- Rouging/ Uprooting of leaf curl affected plants.
- 4 Source of technology :- IIHR, Bangalore.
- 5 Production system and thematic area:- Integrated Pest and Disease Management

6 Performance of the Technology with performance indicators:-

	No.of	Yield	Net Returns	B:C ratio	Data on Other performance indicators		
Technology Option	trials	(t/ha)	(Rs. in lakh./ha)		Parameter	Data on parameter	
Farmers Practice: Spraying		54 t/ha	340000	1:2.70	Avg.% incidence of diseases	12 to 47%	
of chemical insecticides and fungicides	05				Avg.% incidence of pest	7 to 36%	
Technology assessed: IPM		61.5	470000	1:4.35	Avg.% incidence of diseases	4.8 to 15.5	
technology		t/ha			Avg.% incidence of pest	2.7 to 16.5%.	

- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation:-
- 9 Constraints identified and feedback for research
- 10 Process of farmers participation and their reaction:-

Discipline:- Plant Protection- OFT-2:-

- 1 Title of Technology Assessed: Effect of growth hormone On cocoon yield and quality.
- 2 Problem Definition:- Poor Quality & Low Cocoon Yield.
- 3 Details of technologies selected for assessment:

T1 :- Farmers practice : Regular feeding of Mulberry leaves.

T2:- Technology Assessed: Regular feeding of Mulberry leaves with Spray of Sammridhi on silkworm @ 5ml Ampul/50 DFL.

- 4 Source of technology :- Central Silk Research and Training Institute, Mysore
- 5 Production system and thematic area:- Spray of growth Harmone on silkworm to enhance feeding of mulberry leaves.
- 6 Performance of the Technology with performance indicators:-

	No. of	Yield	Net Returns	B:C	Data on Other performance indicators		
Technology Option	trials	(kg/ha/cro p)	(Rs. in lakh./ha/Crop)		Parameter	Data on parameter	
Farmers Practice: Regular feeding of		181.25	81562.5	2.78	1.Cocoon wt (g)	0.38	
Mulberry leaves	_				2.Yield (kg / 100 DFL)	72.50	
Technology assessed: Regular feeding of Mulberry leaves with Spray of Sammridhi or Serimore@ 5ml Ampul/50 DFL	05	211.25	95062.5	3.19	1.Cocoon wt (g) 2.Yield (kg/ 100 DFL)	0.32 84.50	

- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation:-
- 9 Constraints identified and feedback for research
- 10 Process of farmers participation and their reaction:-

Discipline:- Horticulture - OFT-1:-

- 1 Title of Technology Assessed: Assessment of Application of Panchagavya (an organic product) in Banana.
- 2 Problem Definition:- Panchagavya an organic product has the potential to play the role of promoting growth and providing immunity in plant system.
- 3 Details of technologies selected for assessment: Application of Panchagavya (an organic product) in Banana.
- 4 Source of technology: TNAU Coimbatore.
- 5 Production system and thematic area:- Bunch quality improvement.
- 6 Performance of the Technology with performance indicators:-
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation:- The oxydozanide suspension & mineral mixture used get better results so combination of this improves Herd Health.

The deworming medicine in last week of April to 1st week of may drenched to Goats & mineral mixture should be given in breeding season & last trimester of pregnancy.

- 9 Constraints identified and feedback for research
- 10 Process of farmers participation and their reaction:-.

Discipline: - Home Science - OFT-1:-

- 1. Title of Technology Assessed: To Assess the suitability of Noise and dust controlling Mask in threshing operation.
- 2. Problem Definition: Dust and noise pollution in threshing
 - Low work efficiency.
 - More drudgery prone .Fatigues.
- 3. Details of technologies selected for assessment: T1 Farm women practice.

T2 – Use of Noise and dust controlling mask.

- 4 Source of technology: VNMKV Parbhani.
- 5 Production system and thematic area: Drudgery prone activity
- 6 Performance of the Technology with performance indicators: To reduction of Drudgery
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques

No. of	Performance	Data of par	ameter in	Change in parameter	
Beneficiaries	Parameters/Indicator	relation of t	echnology		
		demonstrated			
		Before	After		
10	Heart rate(b.m-1)	110	105	05(b.m-1)	
	Energy	8.77	7.97	0.8	
	Working efficiency	12bandals	21 bandals	48%	
	Health problems	80	40	50%	

8. Final recommendation for micro level situation

9. Constraints identified and feedback for research: - It is very useful to rural women for Drudgery reduction &health hazards.

10. Process of farmers participation and their reaction: - One of the most exciting things is that men also prefer to use it as a tool for easy transportation of water.

Discipline: - Home Science - OFT-2:-

Title of Technology Assessed:- Assessment of Zero energy chambers for vegetables storage

- 2 Problem Definition: Spoilage of vegetable
 - Less price due to lack of storage
 - Lack of knowledge regarding scientific storage
- 3 Details of technologies selected for assessment:- T1:- Farmer practices.

T2:- Use of Zero energy chambers for vegetables and fruits storage.

- 4 Source of technology:- PDKV Akola.
- 5 Production system and thematic area:-
- 6 Performance of the Technology with performance indicators:-
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques

No. of Beneficiaries	Performance Parameters/Indicator		ameter in relation of demonstrated	Change in parameter		
		Before	After			
5	Temperature c	34C	23C	67%		
	Humidity%	28%	82%			
	Physiological weight losses	88%	20%	22.72%		
	Physical characteristics	98%	22%	22.44		
	Colour ,Texture ,Aroma , Overall					
	freshness					

8. Final recommendation for micro level situation: It is very useful for vegetable storage in rural area.

9. Constraints identified and feedback for research: It is low cost technology drop down the temperature & increase the humidity suitable for vegetable storage

10. Process of farmers' participation and their reaction: Farm women were greatly influenced by demonstration of Zero energy chamber and reduction of physiological weight losses of vegetables Low cost cooling system for storage of vegetable

Discipline:- Home Science- OFT-3:-

1. Title of Technology Assessed - To assess the suitability of water trolley for fetching water.

2. Problem Definition:

- Pain in hand fingers shoulder knees.

- Low work efficiency, More time and energy consumption Fatigues.

3. Details of technologies selected for assessment:-

T1 .Farm women practices

T2 Use of water trolley for fetching water.

4. Source of technology: - ANGRAU, Hyderabad.

5. Production system and thematic area: - suitability of water trolley for fetching water.

6. Performance of the Technology with performance indicators:-Reduction the drudgery

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

No. of	Performance		arameter in relation of	Change in parameter
Beneficiaries	Parameters/Indicator	technolog	gy demonstrated	In times
		Before	After	
10	No. of trips	80	40	50%
	Time	2 hour	1 hour	50%
	Health Problem	98%	40%	40.81%
	Distance travel	20meter	10meter	

8. Final recommendation for micro level situation: - it is very useful for carrying water.

9. Constraints identified and feedback for research: - It is very useful to rural women for drudgery reduction.

10. Process of farmers' participation and their reaction: - One of the most exciting things is that men also prefer to use it as a tool for easy transportation of water.

Discipline:- Veterinary Science- OFT-1:-

- 1 Title of Technology Assessed: Use of Oxyclozanide dewormer & Mineral mixture in Goats..
- Problem Definition:- In rainy season from last two years snails area found in large which area carriers of liver fluke worms in Goats.
 Due to lack of minerals and vitamins reproductive disorders are more periparturant and after parturition..
- 3 Details of technologies selected for assessment:

T1:- Farmers practice spraying of 1% Cypermethrin and Amitraz.

T2:- Spraying of neem oil 30 ml, Karanj oil 15 ml and 20 gm soap solution / liter with Knap sack sprayer @ 30 ml/m² area.

- 4 Source of technology: MAFSU, Nagpur.
- 5 Production system and thematic area:- Disease management.
- 6 Performance of the Technology with performance indicators:- Milk Prodcution increased by 1.5 lit/day. Incidence of disease occurrence is very low.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques.
- 8 Final recommendation for micro level situation:- The spray of 30 ml neem oil + 15 ml Karanj oil + 10 ml soap solution used at an interval of 15 days in rainy season.
- 9 Constraints identified and feedback for research:-

10 Process of farmers participation and their reaction:- Butox i.e. Cypermethrin in very risky to use in Cattle shed if by mistake animal lies the chemical spray of neem oil and Karanj oil had no chances of poisoning as it was Herbal also the physical method that the eggs were burned by flame & scrubbing and burning in fire.

Discipline:- Veterinary Science- OFT-2:-

- 1 Title of Technology Assessed: Integrated Control of Ticks & Fly Cattle Shed.
- 2 Problem Definition:- In the area the ectoparasites like ticks & fly are very common and due to that the production in Milking animals were affected i.e Decreased milk production, occurrence of disease i.e. vector born. Also the ticks and flies are resistant to 1% Cypermethrin and Amitraz.
- 3 Details of technologies selected for assessment:
 - T1 :- Farmers were not use the dewormer & mineral mixture but some were used Albendazole.

T2:- Oxyclozanide & Levamisol combination suspension was drenched according to the body weight and age of Goats before rainy season i.e in last week of May. Goats which were pregnant among this were fed with mineral mixture for 1 month in last trimester of pregnancy and 15 days after parturition.

- 4 Source of technology :- WBUAFS, Kolkatta.
- 5 Production system and thematic area:- Disease and Health management.
- 6 Performance of the Technology with performance indicators:- 75% Goats were conceive. Health status was good, lustrous skin, kids birth weight is 1 prox 2.4 kg, Conception rate is good.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation:- The oxydozanide suspension & mineral mixture used get better results so combination of this improves Herd Health. The deworming medicine in last week of April to 1st week of may drenched to Goats & mineral mixture should be given in breeding season & last trimester of pregnancy.
- 9 Constraints identified and feedback for research
- 10 Process of farmers participation and their reaction:-.

3.3. FRONTLINE DEMONSTRATION

Discipline – Agronomy:-

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

S. N	Crop/ Enterprise	Them atic	Technology demonstrated	Details of popularization methods	Horizontal spread of technology			
0		Area	Technology demonstrated	suggested to the Extension system	No. of villages	No. of farmers	Area in ha	
1	Red gram+ Green gram	ICM	To demonstrate the intercropping of Red gram + Green gram (1:3)	FLD, Field day, Training programme, Publication.	4	98	10	
2	Soybean	ICM	To show the yield potential performance of Soybean variety DS-228 & MAUS-162 as compare to local check JS-335	FLD, Field day, Training programme, Publication.	3	38	10	

B. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals**, **horticultural crops**, **oilseeds**, **pulses**, **cotton and commercial crops**.)

SI. No	Crop	Thematic	Technology Demonstrated	Season and	Area (Area (ha)		of farmei nonstratio		Reasons for shortfall in achievement
-		area	Demonstrated	year	Proposed	Actual	SC/ST	Others	Total	achievenhent
1	sorghum	Varieta		Rabi 2017	04	04	03	07	10	
		l trail								
2	Grenn gram	ICM		Kharif 2017	10	10	10	15	25	
2	U			Kharif 2017	10	10	7	10	20	
3	Black gram	ICM		Kharif 2017	10	10	1	13	20	
4	Red gram	ICM		Kharif 2017	10	10	10	15	25	

5	soybean	ICM	Kharif 2017	30	30	20	55	75	
6	Bengal gram	ICM	Rabi 2017	20	20	15	35	50	
7	Ground nut	ICM	Summer 2018	20	20	15	35	50	
8	seaseme	ICM	Summer 2018	10	8	7	12	19	

Details of farming situation

Crop	Season	Farming situation (RF/Irrig ated)	Soil type	Stat	us of so	il	Previou s crop	towing date	Harvest date	Season al rainfall (mm)	No. of rainy davs
orop	Se	Farr situ (RF at	tz N	Ν	Р	К	Pre s o	Q Q	Har då	Sea Sea raii (m	No. rair dav
sorghu m	Rabi 2017-18	irrigated	Medium black	Low	Low	High	soybean	2 nd week of nov 2017	Last week of march 2018	657.3	59
Green gram	Kharif 2017	rainfed	Medium black	Low	Low	High	Bengal gram	2 nd week of june 2017	Last week of Aug 2017	657.3	59
Black gram	Kharif 2017	rainfed	Medium black	Low	Low	High	Bengal gram	2 nd week of june 2017	3 rd week of sep 2017	657.3	59
Red gram	Kharif 2017	rainfed	Medium black	mediu m	Low	High	cotton	2 nd week of june 2017	Last week of jan 2018	657.3	59
soybea n	Kharif 2017	rainfed	Medium black	Low	medi um	High	Bengal gram	2 nd week of june 2017	Last week of oct 2017	657.3	59
Bengal gram	Rabi 2017	Irrigated	Medium black	Low	Low	High	sorghum	2 nd week of nov 2017	Last week of feb 2018	657.3	59
Groun d nut	Summer 2018	Irrigated	Medium black	Low	medi um	High	soybean	3 rd week of jan 2018		657.3	59
sesam um	Summer 2018	Irrigated	Medium black	Low	medi um	High	soybean	1 st week of feb 2018		657.3	59

S. No	Feed Back
1) Sorghum	1.Sorghum variety of parbhani moti is dual purpose variety it is obtained more seed yield and good quality fodder
	2. it is suitable for rainfed situation
2) Green gram /	1. The thrives best in rainfed areas
black gram	2.Little tolerance to wilt and PM
3) Red gram	White colour variety Less flower drop was observed Shattering was less Wilt tolerant It's come to one time harvesting
	It is early duration variety of BDN-711 It is suitable for dry land situation
4) Soybean	Soybean variety of MAUS-162 is better for mechanical harvesting it is obtain good results number of pod per plant is higher
	and bold grain size by the application of soil test base fertilizer with seed treatment
5) Bengal gram	It is suitable for rainfed as well as irrigated condition it is obtained more yield as compare to locl check

S. No	Feed Back
1) Sorghum	Sorghum variety of parbhani moti is shiney grain colour and white color variety and keeping quality of fodder is very good and it is best for animal feeding.
2) Green gram/black gram	Less infestion of powdery mildew, Green gram variety bold seeded variety shiny color seed
3) Red gram	Preferred due to its white colour
	More number of branching
	Less duration
4) Soybean	The variety is suitable for mechanical harvesting
	Shattering percentage is less
	Application of sulphur & zinc was profitable for grain size & colour
	Number of pod per plant was more as compare to JS-335.
5) Bengal gram	Its bold seed variety and high no of pod per plant

Farmers' reactions on specific technologies

Discipline – Horticulture-

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

S.	Crop/ Enterprise	Thomatic Area	Technology	Details of popularization methods suggested		Horizontal spread of technology			
No		Thematic Area	demonstrated	to the Extension system	No. of	No. of	Area in		
					villages	farmers	ha		
1	Banana	Integrated Crop management	Use of skirting bag for improving bunch quality in Banana	9	07	35	01		
2	Tomato	Introduction of Triple Disease resistant F1	Demosntration of New Tomato F1 Hybrid	1) Field visit. 2) Trial.	08	55	4.5		

B. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals**, **horticultural crops**, **oilseeds**, **pulses**, **cotton and commercial crops**.)

SI.	SI. No. Crop Thematic area	Technology	Season Area (ha		nai		. of farme monstratio		Reasons for shortfall in	
INO.		area	Demonstrated	year	Proposed	Actual	SC/ST	Others	Total	achievement
1	Banana	Integrated Crop manageme nt	Use of skirting bag for improving bunch quality in Banana	June 2017	01	01	15	20	35	
2	Tomato	Irrigation Balanced system	New Varietal Demonstration	Kharif 2017	05	4.5	20	35	55	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigate d)	il type	Status of soil			revious crop	ving date	Harvest date	Seasonal iinfall (mm)	of rainy days
	Ň		Soil	Ν	Р	к	Pre	Sow	Ξ̈́	Seas rainfall	°No.
Banana	Kharif	Irrigated	Medium	Hig	Med	High	Summer	27 th June	10 th		
	2017		Black	h	ium	-	Groundnut	2017	April	657.3	59
									2018		
Tomato	Kharif	Irrigated	Medium	Hig	Med	High	Wheat	20 th June	Februa	657.3	59
	2017		Black	h	ium			2017	ry 2018	007.5	09

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	This F1 fruit size is oval in shape and cannot tolerate high temperature above 42 °C. Hence, there some limitations to this F1. Mostly
	consumers Marathwada region prefers round shape fruit instead of oval sided fruit.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Farmers were highly satisfied with this introduction, because this F1 fetch better price in market and it is triple disease resistant and
	cost is less as compare to private popular F1 available in the market.

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	01	Feb 2018	55	
2	Farmers Training	01	July 2017	102	
3	Media coverage	02			
4	Training for extension functionaries				

Discipline – Plant Protection:-

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

S.	Crop/ Enterprise	Thematic	Technology domonstrated	Details of popularization methods suggested to technology	
No		Area	Technology demonstrated	,	Area in ha
1	Pigeon pea	IPM	Demonstration IPM technology	1) Organize demonstration on 10 farmer's field.2) Conduct trainings, FFS in FLD plot.3) Organize a frequent field visit to FLD plot.	25
2	Bengal gram	IPM	Demonstration of IPM technology	 Organize demonstration on 10 farmer's field. Conduct trainings, FFS in FLD plot. Organize a frequent field visit to FLD plot. 	25
3	Soybean	IPM	Demonstration of IPM and IDM technology	1) Organize demonstration on 10 farmer's field.2) Conduct trainings, FFS in FLD plot.3) Organize a frequent field visit to FLD plot.	50
4	Cotton	IPM	Demonstration of Yellow sticky traps and spraying of Azadiractin 300 ppm, Acetamiprid 20 sp, Triazophos.	 Organize demonstration on 10 farmer's field. Conduct trainings, FFS in FLD plot. Organize a frequent field visit to FLD plot. 04 25 	10
5	Chili	IPM	Demonstration of IPM technology	1) Organize demonstration on 5 farmer's field.2) Conduct training.3) Organize frequent field visits.	01
6	Turmeric	IPM & IDM	Demonstration of Rhizome seed treatment with Redomil Gold Metalaxyl- M8% + Mancozeb 64% & Quinalphos 26 EC.	 Organize demonstration on 5 farmer's field. Conduct training. Organize frequent field visits. 05 35 	25

B. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals**, **horticultural crops**, **oilseeds**, **pulses**, **cotton and commercial crops**.)

SI. No	Crop	Thematic	5,	Season and	Area (Area (ha)		of farmer nonstratio		Reasons for shortfall in achievement	
		area	Demonstrated	year	Proposed	Actual	SC/ST	Others	Total	achievement	
1	Pigeon pea	IPM	IPM	Kharif 2017	10	10	04	06	10		
2	Bengal gram	IPM	IPM	Rabi 2017	10	10	02	08	10		
3	Soybean	IPM	IPM	Kharif 2017	10	10	05	05	10		
4	Cotton	IPM	IPM	Kharif 2017	10	10	03	07	10		
5	Chilli	IPDM	IPM & IDM	Summer 2018	05	00		-	-	Due to drought condition no cultivation by the farmers	
6	Turmeric	IPDM	IPM & IDM	Kharif 2017	05	05	02	03	05		

Details of farming situation

Crop	Season	Farming situation (RF/Irrig ated)	Soil type	State	us of so	oil	Previou s crop	Sowing date	Harvest date	Season al rainfall (mm)	No. of rainy davs
Crop	Sea	Farm situa (RF/I ate	ty S			Sea raii (m	No. rain dav				
Pigeon pea	Kharif 2017	Rainfed	Medium to heavy	Mediu m	Low	High	Bengal gram	24 June to 30June 2017	1 st week of Jan 2018 to 3 rd week	657.3	59
Bengal gram	Rabi 2017	Rainfed	Medium to heavy	Mediu m	Low	High	Soybean/ Jawar	10 Nov to 20 Nov 2017	14 Feb 2018to 22 Feb 2018	657.3	59
Soybea n	Kharif 2017	Rainfed	Medium to heavy	Mediu m	Low	High	Cotton/Ra bi Jawar	24June to 30 2017	25 oct. 2017to 5 nov. 2017	657.3	59
Cotton	Kharif 2017	Rainfed	Medium to heavy	Mediu m	Low	High	Bengal gram/Rabi Jawar	22 June to 26 June 2017	Mid Nov.2017 to last week of Jan 2018	657.3	59
Chilli	Summer 2018	-	-	-	-	-	-	-	-		
Turmer ic	Kharif 2017	Irrigated	Medium to heavy	Mediu m	Low	High	Cotton/ Bengal gram	15 June to 22 June 2017	10 March to 20 March 2018	657.3	59

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1) IPM technology	IPM technology is very useful in every crop for reducing cost of plant protection up to 40 to 60 %.
2)Pheromone	Installation of Pheromone traps for monitoring and trapping of the pest is very cost effective method for reducing the pest
traps	population
3)Light Traps	Mass trapping of White Grub adults by using light trap is effective and easy.
4) Field days	Field days celebration helps to aware the forum about IPM technology.

Farmers' reactions on specific technologies

S. No	Feed Back
1. Training	The training on IPM Technology is very effective for us to identify the different insect pest and Beneficial insects.
2.Use of Botanical	Use of Neem ark or NSKE 5% is very effective for manage the insect pest in early stages of crops. It is very easy to
pesticides	prepare at home.
3. Use of Metarhizium	Application of Metarhizium anisopli is very effective for controlling the white Grub in Turmeric.
for white Grub	
management	

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	05		250	
2	Farmers Training	06		123	
3	Media coverage	02			
4	Training for extension functionaries	01		08	

Discipline – Home Science-

A. Follow-up for results of FLDs implemented during previous years List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

S	Crop/	Thematic Area	Technology	Details of popularization methods	Horizontal spread of technology			
N o	Enterprise	Thematic Area	demonstrated	suggested to the Extension system	No. of villages	No. of farmers	Area in ha	
1	Nutritional Garden	Nutritional Management rural family	Demonstration on preparation Nutritional Garden	This FLD has been conducted at Pandharwadi, Tq.Mudkhed to improve family health.	02	75	0.03	
2	Demonstration on cycle hoe.	To reduce the drudgery in intercultural operation.	Cycle hoe.	This FLD has been conducted at Pokharni, Dhanora Tq. Nanded	02	15	0.5	
3	To access the efficiency of multi crop Mitten for Harvesting.	Save time and increase work capacity and productivity of farm women.	Mitten	This FLD has been conducted at Pawdewadi, Dhanora Tq. Nanded	02	10	0.2	

B. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals**, **horticultural crops**, **oilseeds**, **pulses**, **cotton and commercial crops**.)

SI. No.	Crop	Thematic area	Technology Demonstrated	Season and	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in
110.		arca	Demonstrated	year	Proposed	Actual	SC/ST	Others	Total	achievement
1	Nutrition	Nutritional	Demonstration	Oct.201	10 Unit	10 Unit	02	08	10	
	al	Management	on preparation	7						
	Garden	of family	of Nutritional							
			Garden							
2	Cycle	Cycle hoe	To reduce the	July	0.5	0.5	03	07	10	
	hoe		drudgery in	2017						
			intercultural							
			operation.							
3	Mitten	Mitten	Save time and	Nov.201	0.2	0.2	20	05	15	
			increase work	7						
			capacity and							
			productivity of							
			farm women.							

Details of farming situation

Cro			Stat	Status of soil			ing date	arvest date	easonal ıfall (mm)	of rainy days	
P	Š	Fa sitt (RF/	So	Ν	Ρ	K	Pre	Sow	Η	Sea	No.

Technical Feedback on the demonstrated technologies

S.	Feed Back
No	
1	Farm women were highly satisfied with this introducing nutritional garden because it increases consumption of vegetables.
2	Farm women were highly satisfied because these cycles hoe operational area increase 54% than tradition Khurpi.
3.	Mittens are very useful in cutting soybean, Brijal and ladies finger. Its reduces the health hazards 80% and increase the output 22%.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Reduction of monthly expenditure on purchasing the vegetables
	Increase the hemoglobin level

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	01		30	MAVIM Mahila Bachat Gat & Extension functionaries appreciated the programme.
2	Farmers Training	03		47	
3	Media coverage	01		01	
4	Training for extension functionaries	01		15	

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

	The			No. of	Are		Yiel	d (q/ha)		%			nics of ion (Rs.	./ha)	Eco	nomics (Rs./	of che /ha)	
Crop	mati c Area	technology demonstrated	Variety	Far me rs	a (ha)	Hig h	Dem Lo w		K	Increa se in yield	Gros s Cost	Gros s Retur n	Net Retur n	BC R (R/ C)	Gros s Cost	Gros s Retur n	Net Retur n	BC R (R/ C)
Groundn ut	ICM	New variety demonstration of Rabi Ground nut TG-37 as compared to local check	TG-37	50	20					Result a	waited							
Sesamu m	ICM	New variety demonstration of Rabi Sesamum PKVNT-11 as compared to local check	PKVNT -11	20	08				1	Result a	waited							
Mustard																		
Toria																		
Linseed																		
<u> </u>																		

Sunflow er																		
<mark>Soybean</mark> Soybea n	IPM	IPM	MAUS- 71 JS- 335	10	04	22. 5	17. 5	20	16.5	21	2850 0	5600 0	2750 0	1.9 6	3240 0	4620 0	1380 0	1.4 2
Soybean	ICM	To demonstrate potential yield of Kharif Soyabean variety of MAUS- 162 as compare to local check	MAUS- 162	75	30	21.7 5	7.6 2	17	14.35	18.55	2431 7	4506 3	2074 6		2342 0	3802 7	1460 7	1.62

Frontline demonstration on pulse crops

		technology		No. of	Are		Yie	d (q/ha)		%	dem	Econor onstrati		/ha)	Eco	nomics (Rs./	of ch /ha)	eck
Crop	Themat ic Area	demonstrat	vanet	Farme	a	11:	Den	no	Chao	Increa se in	Gros	Gross	Net	BC R	Gros	Gros	Net	BC
	ic Area	ed	У	rs	(ha)	Hig h	Lo w	Avera ge	Chec k	yield	s Cost	Retur n	Retur n	к (R/ С)	s Cost	s Retur n	Retur n	R (R/ C)
Pigeon pea	ICM	New variety demonstrati on of kharif Pigeon pea variety BDN-711 as compare to local check	BDN- 711	25	10	21.2 5	8.7 5	12.55	9.62	30.45	1062 0	65887. 5	55267. 5	6.20	9250	5050 5	4125 5	5.46
Pigeon pea	IPM	IPM	BDN- 711	10	04	12.6	10. 5	11.55	8.5	35.8	2320 0		28775	2.24	2750 0	38250	10750	1.39
Black gram	ICM	New variety demonstrati on of kharif Black Gram AKU-15 as compare to local check	AKU- 15	18	10	3.57	2.3	3.04	6.52	44.76	7210	13984	6774	1.93	6870	9660	2790	1.4
Green gram	ICM	New vareity demonstrati on of Kharif Green Gram BM-2003-02 2010	BM- 2003- 02	25	10	10.9	3.1	7.68	5.32	44.36	1025 0	35328	25078	3.44	9700	2447 2	1477 2	2.52

Chickpea																		
Chickpea		IPM	Jaki- 9218 Digvij ay	10	04	22	18	20	14.5	37.93	2650 0	70000	43500	2.64	3250 0	50750	18250	1.56
Chickpea	ICM	New vareity demonstrati on of Rabi Chickpea Jaki-9218 as compare to local check	Jaki- 9218	50	20	31.2 5	8.7 5	23.26	18.05	28.91	2238 0	86062	63682	3.84	2120 0	6678 5	4558 5	3.15
Field pea																		
Lentil																		
Horsegra m																		

FLD on Other crops

FLD ON		oha				× <i>-</i>													
	The	Name of	No			Yiel	ld (q/ha)		% Ch	Othe Parame			conom emonst (Rs./ł	ration		Eco		ics of s./ha)	check
Categ	The mati	the	of Fa	Area		Dem	0	Chec	an						B	Gr	Gr		
ory & Crop	C Area	technolo gy	Fa rm er s	(ha)	Hig h	Low	Avera ge	k	ge in Yie Id	Demo	Che ck	Gro ss Cos t	Gros s Retu rn	Net Ret urn	B C R (R/ C)	os s Co st	os s Re tur n	Net Ret urn	BCR (R/C)
Cereal s																			
Paddy																			
Waterl ogged Situati on																			
Coars e Rice																			
Scente d Rice																			
Wheat																			
Wheat Timely sown																			
Wheat Late Sown																			
						<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>							<u>[]</u>

Mand ua																			
Barle y																			
Maize																			
Amar anth																			
Millets																			
Jowar	Vari etal evalu ation	New vareity demonstr ation of Rabi Jawar variety Parbhani Moti as compare to local check	10	0.4	45.4	12.9	32.44	22.10	46. 78	Test weight- 3.40	2.32	225 20	8110 0	585 80	3. 60	21 50 0	55 25 0	337 50	2.56
Bajra																			
Barny ard millet																			
Finger																			

millet																			
Vegeta bles																			
Bottle gourd																			
Bitterg ourd																			
Cowpe a																			
Spong egour d																			
Petha																			
Tomat o	Vari etal intro ducti	Assessm ent of Triple disease	10	01	24	20	22	14	157	Pest & disease inciden ce-10%	35%	120 000	3998 40	279 840	3. 3	15 00 00	33 32 00	183 200	2.22
	on	resistant Tomato F1 Arkaraks hak								Yield – High No. of spray- 9	Med ium 20								
Frenc hbean																			
Capsi																			

cum											
Chilli											
Chilli	IPM	IPM & IDM	 								
Brinja I											
Vegeta ble pea											
Softgo urd											
Okra											
Coloc asia (Arvi)											
Brocc oli											
Cucu mber											

Onion					
Corien der					
Lettuc					
e					
Oshha					
Cabba ge					
Caulifl ower					
Elepha nt fruit					
Flower crops					
cropsMarigoId					
Bela					
Tuber					
OSE					
Gladio					

lus																			
Fruit crops Mango																			
Straw berry																			
Guava																			
Banan a	Integr ated Crop Mana	Use of skirting bags in Banana	10	05	563	540	551.5	472	116	Sucking pest attack – Very less		5490 00	53900 0	419 000	0.9 8	440 000	432 000	3400 00	0.98
	geme nt									Bunch weight- Medium to high	Les s to med ium								
Papay a																			
Musk melon																			
Waterm elon																			
Spices &																			

condi																		
ments																		
Ginger																		
Garlic																		
Turme ric																		
Turmer ic	IPM	IPM & IDM	10	04	268	195	231.5	196	18.1 1	 	1285 00	3472 50	218 750	2.7 0	14 75 00	29 40 00	146 500	1.99
Comm ercial Crops																		
Sugar cane																		
Potato																		
Cotton	IPM	IPM	10	04	17.5	13.5	15.5	12.75	21.5 6	 	4450 0	7440 0	299 00	1.6 7	52 50 0	61 20 0	8700	1.16
Medici nal & aroma tic																		
plants Menth olment																		
Kalme																		

gh																			
Ashwa gandh a																			
Fodde r Crops																			
Sorghu m (F)DH N-6	Feed & fodd er Man age ment	Feeding of area specific mineral mixture	10	20 R	-	-	Fodder Produc tionon tones	Africa n tall 2.10	34 %	Milk fat% Cow 4.2%	Milk fat% Cow 3.8 %	150 0	5482	398 2	3. 65	23 00	36 00	130 0	1.56
Cowpe a (F)																			
Maize (F)																			
Lucer n																			
Berse em																			
Oat (F)																			

FLD on Livestock

Category	Themati c area	Name of the technology	Farme	Units	paran	ajor neters		para	her meter	den	Econon nonstra	tion (R	ls.)		nomics (R៖	5.)	
		demonstrate d	r	(Animal / Poultry / Birds, etc)	0	Chec k	in major paramete r		Chec k	Gros s Cost	Gross Retur n	Net Retur n	BCR (R/C)	Gros s Cost	Retur	Net Retur n	
Cattle																	
Buffalo																	
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep & Goat																	
Vaccinatio n																	

FLD on Fisheries

		Name of the	No.	No.	Major pa	rameters	% chang	Oth paran			Econor nonstra		Eco		s of che s.)	eck
Catego ry	Themati c area	technolog y demonstra ted	of Farm er	of unit s	Demons ration	Check	e in major param eter	Demo ns ration	Chec k	Gros s Cost	Gross Retur n	BCR (R/C)	Gro ss Cost	Gros s Retu rn	Net Retur n	BC R (R/ C)
Comm on Carps																
Compo site fish culture																
Feed Manag ement																

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farm	No.o f units	Maj param		% change in	1	her meter	Rs./unit					onomics (Rs.) or		
		er		Demo	Che ck	major parame ter	Demo	Check	S	Gros s Retur n	Net Retur n	BCR (R/C)	Gros s Cost	Gross Return	Net Retur n	BCR (R/C)
Oyster Mushroom																
Button Mushroom																
Apiculture																
Maize Sheller																
Value Addition																
Vermi Compost																

FLD on Women Empowerment

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

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technolo gy demonstr ated	No. of Farmer	1	Major parameter s	File observ (outpu hou	vation t/man	% change in major paramete	Labor re	ductio	n (man	days)	Co (Rs./ha		luction s./Unit	
						Demo	Chec k	•	Land prepara tion	Sowi ng	Weed ing	Total	Land prepar ation	Labo ur	Irrig ation	Tota I

FLD on Other Enterprise: Kitchen Gardening

ategory nd Crop	1	Name of the technolo	No. of Far	No. of Unit	Yield	l (Kg)	% chan ge in	-	ther meters	1		nics of stration /ha)		Eco	nomics (Rs./	eck
		gy demonst rated	mer	S	Demo ns ration	Check	yield	Dem o	Check	Gros s Cost	Gros s Retur n	Net Retur n	BCR (R/C)		Gross Retur n	

FLD on Demonstration details on crop hybrids

Сгор	technology	Hybrid	No. of	Area			l (q/ha)		% Increase		mics of c (Rs./	ha)	
Crop	demonstrated	Variety	Farmers	(ha)	High	Demo Low	Average	Check	in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oilseed crop													
Pulse crop													
Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

3.4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of				Р	articipan	ts			
	courses		Others			SC/ST		Ģ	Frand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies	02	52	75	127	18	33	51	70	108	178
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production	02	40		40	12		12	52		52
Nursery management										
Integrated Crop Management	01	60		60	15		15	75		75
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total										
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										

Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit									
Management of young plants/orchards									
Rejuvenation of old orchards									
Export potential fruits									
Micro irrigation systems of orchards									
Plant propagation techniques									
Others (pl specify)									
Total (b)									
c) Ornamental Plants									
Nursery Management									
Management of potted plants									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
Others (pl specify)									
Total (c)									
d) Plantation crops									
Production and Management technology									
Processing and value addition									
Others (pl specify)									
Total (d)									
e) Tuber crops									
Production and Management technology									
Processing and value addition									
Others (pl specify)									
Total (e)									
f) Spices									
Production and Management technology	01	19	19	15	05	20	34	05	39
Processing and value addition	01	15	15	05		05	20		20
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 management									
Integrated Nutrient Management									
Production and use of organic inputs	01	10		10	02	02	12		12
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Balance use of fertilizers									
Soil and Water Testing	01	09	01	10	04	04	13	01	14
Others (pl specify)									
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Piggery Management									
Rabbit Management									
Animal Nutrition Management									
Disease Management	01	30	04	34	03	03	33	04	37
Feed & fodder technology	01	35		35	05	05	40		40
Production of quality animal products									
Others (pl specify)									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition									
gardening	01	54	01	55			54	01	55
Design and development of low/minimum cost diet	01	48		48			48		48
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									

Processing and cooking									
Gender mainstreaming through SHGs	01	10	10	20			10	10	20
Storage loss minimization techniques									
Value addition									
Women empowerment									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Others (pl specify)									
Total									
VI Agril. Engineering									
Farm Machinary and its maintenance									
Installation and maintenance of micro irrigation systems									
Use of Plastics in farming practices									
Production of small tools and implements									
Repair and maintenance of farm machinery and implements									
Small scale processing and value addition									
Post Harvest Technology									
Others (pl specify)									
Total									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides	01	27		27	03	03	30		30
Others (pl specify)									
Total									
VIII Fisheries									
Integrated fish farming									
Carp breeding and hatchery management									
Carp fry and fingerling rearing									
Composite fish culture									
Hatchery management and culture of freshwater prawn									
Breeding and culture of ornamental fishes									

Portable plastic carp hatchery									
Pen culture of fish and prawn									
Shrimp farming									
Edible oyster farming									
Pearl culture									
Fish processing and value addition									
Others (pl specify)									
Total									
IX Production of Inputs at site									
Seed Production									
Planting material production									
Bio-agents production									
Bio-pesticides production									
Bio-fertilizer production									
Vermi-compost production									
Organic manures production									
Production of fry and fingerlings									
Production of Bee-colonies and wax sheets									
Small tools and implements									
Production of livestock feed and fodder									
Production of Fish feed									
Mushroom Production									
Apiculture									
Others (pl specify)									
Total									
X CapacityBuilding and Group Dynamics									
Leadership development									
Group dynamics	01	12		12	05	05	17		17
Formation and Management of SHGs									
Mobilization of social capital	02	50	02	52	06	06	50	08	58
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
Others (pl specify)									
Total									

XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	18	471	93	564	93	38	131	558	137	695

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				F	Participant	S			
	courses		Others			SC/ST		0	Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies	01	30	05	35	10	05	15	40	10	50
Cropping Systems	01	20		20	08		08	28		28
Crop Diversification	01	25		25	03		03	28		28
Integrated Farming	03	70	25	75	16	02	18	91	27	118
Micro Irrigation/irrigation										
Seed production	01	32		32	07		07	39		39
Nursery management	01	50		50				50		50
Integrated Crop Management	06	133	07	140	57	04	61	190	11	201
Soil & water conservatioin	02	81	03	84	12	02	14	96	05	101
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total										
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables	02	14	10	24	17	02	19	31	12	43
Nursery raising	01	10		10	02		02	12		12
Exotic vegetables										

Export potential vegetables										
Grading and standardization										
Protective cultivation	01	32		32	15		15	47		47
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	01	12		12	10		10	22		22
Cultivation of Fruit										
Management of young plants/orchards	01	46		46	16		16	62		62
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	02	28	12	40	31	09	40	59	21	80
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										

Production and Management technology	02	74		74	15	10	25	74	10	84
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	01	24	02	26	15	01	16	39	03	42
Integrated water management										
Integrated Nutrient Management	03	75		75	25	01	26	100	01	101
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	03	25		25	17		17	42		42
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	01	17		17	02		02	19		19
Feed & fodder technology	01	18		18				18		18
Production of quality animal products										
Others (pl specify)										
Total										

V Home Science/Women empowerment										
Household food security by kitchen gardening and										
nutrition gardening	05	07	85	92		08	08	15	93	108
Design and development of low/minimum cost diet	01		40	40		05	05		45	45
Designing and development for high nutrient										
efficiency diet										
Minimization of nutrient loss in processing	02		28	28					28	28
Processing and cooking										
Gender mainstreaming through SHGs	01	12	18	30				12	18	30
Storage loss minimization techniques	01		10	10		02	02		12	12
Value addition	01	05	25	30		05	05	05	30	35
Women empowerment										
Location specific drudgery reduction technologies	01		20	20					20	20
Rural Crafts										
Women and child care										
Others (Income generation)	01	05	10	15				05	10	15
Total										
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation										
systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and										
implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases	01	09	13	22				09	13	22
Production of bio control agents and bio pesticides	01	19		19	02		02	21		21

Others (pl specify)	01	22	01	23		22	01	23
Total								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater								
prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
Others (pl specify)								
Total								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
Mushroom Production								
Apiculture								
Others (pl specify)								

Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital	01	04	17	21				04	17	21
Entrepreneurial development of farmers/youths	01	18		18	03		03	21		21
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	53	917	331	1248	283	56	339	1201	387	1588

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

Thematic area	No. of courses					Parti	cipants			
			Others			SC/ST	-		Grand Total	
		Male	Fem ale	Total	Male	Fema le	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies	03	82	80	162	46	38	84	128	118	246
Cropping Systems	01	20		20	08		08	28		28
Crop Diversification	01	25		25	03		03	28		28
Integrated Farming	03	70	25	75	16	02	18	91	27	118
Micro Irrigation/irrigation	02	40		40	12		12	52		52
Seed production	03	72		72	59		59	131		131
Nursery management	01	50		50				50		50
Integrated Crop Management	07	193	07	200	72	04	76	265	11	176
Soil & water conservation	02	81	03	84	12	02	14	96	05	101
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total										
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables	02	14	10	24	17	02	19	31	12	43
Nursery raising	02	25		25	14		14	39		39
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	01	32		32	15		15	47		47
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										

Layout and Management of Orchards	01	12		12	10		10	22		22
Cultivation of Fruit										
Management of young plants/orchards	01	46		46	16		16	62		62
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	02	28	12	40	31	09	40	59	21	80
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental										
Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management										
technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management										
technology	03	93		93	30	15	45	123	15	138
Processing and value addition	01	15		15	05		05	20		20
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	01	24	02	26	15	01	16	39	03	42
Integrated water management										
Integrated Nutrient Management	03	75		75	25	01	26	100	01	101
Production and use of organic inputs	01	10		10	02		02	12		12
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	01	09	01	10	04		04	13	01	14
Others (pl specify)										
Total										
IV Livestock Production and										
Management										
Dairy Management	03	25		25	17		17	42		42
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	02	47	04	51	05		05	52	09	61
Feed & fodder technology	02	53		53	05		05	58		58
Production of quality animal products										
Others (pl specify)										

Total									
V Home Science/Women									
empowerment									
Household food security by kitchen									
gardening and nutrition gardening	06	61	86	147	08	08	61	94	155
Design and development of									
low/minimum cost diet	01	48		48			48		48
Designing and development for high									
nutrient efficiency diet									
Minimization of nutrient loss in									
processing	02		28	28				28	28
Processing and cooking									
Gender mainstreaming through SHGs	02	22	28	50			22	28	50
Storage loss minimization techniques	01		10	10	02	02		12	12
Value addition	01	05	25	30	05	05	05	30	35
Women empowerment									
Location specific drudgery reduction									
technologies	01		20	20				20	20
Rural Crafts									
Women and child care									
Others (Income generating)	01	05	10	15			05	10	15
Total									
VI Agril. Engineering									
Farm Machinary and its maintenance									
Installation and maintenance of micro									
irrigation systems									
Use of Plastics in farming practices									
Production of small tools and									
implements									
Repair and maintenance of farm									
machinery and implements									
Small scale processing and value									
addition									
Post Harvest Technology									

Others (pl specify)									
Total									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases	01	09	13	22			09	13	22
Production of bio control agents and bio									
pesticides	02	46		46	05	05	51		51
Others (Organic manual)	01	22	01	23			01	22	23
Total									
VIII Fisheries									
Integrated fish farming									
Carp breeding and hatchery									
management									
Carp fry and fingerling rearing									
Composite fish culture									
Hatchery management and culture of									
freshwater prawn									
Breeding and culture of ornamental									
fishes									
Portable plastic carp hatchery									
Pen culture of fish and prawn									
Shrimp farming									
Edible oyster farming									
Pearl culture									
Fish processing and value addition									
Others (pl specify)									
Total									
IX Production of Inputs at site									
Seed Production									
Planting material production									
Bio-agents production									
Bio-pesticides production									
Bio-fertilizer production									

Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax										
sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group										
Dynamics										
Leadership development										
Group dynamics	01	12		12	05		05	17		17
Formation and Management of SHGs										
Mobilization of social capital	03	54	19	73	06		06	60	19	79
Entrepreneurial development of										
farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	72	1425	384	1809	455	89	544	1867	499	2266

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

	No. of				No. of	Participa	nts			
Area of training	No. of Course		General			SC/ST		0	Grand Tot	tal
Area of training	s	Male	Female	Total	Male	Female	Total	Male	Femal e	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	01	27		27	03		03	30		30
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm	01	29		29	02		02	31		31
machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	01	14		14	06		06	20		20
Sheep and goat rearing	01	09	08	17	08	01	09	17	09	26
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										

Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	04	79	08	87	19	01	20	98	09	107

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

	No. of				No. of	Participar	its			
Area of training	No. of		General			SC/ST		(Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										
Training and pruning of orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	02	32		32	08		08	40		40
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture	01	26		26				26		26
Repair and maintenance of										
farm machinery and										
implements										
Value addition										
Small scale processing										<u> </u>
Post Harvest Technology										ļ
Tailoring and Stitching										L

Rural Crafts									
Production of quality animal	01	11	11	04	01	05	15	01	16
products									
Dairying									
Sheep and goat rearing									
Quail farming									
Piggery									
Rabbit farming									
Poultry production									
Ornamental fisheries									
Composite fish culture									
Freshwater prawn culture									
Shrimp farming									
Pearl culture									
Cold water fisheries									
Fish harvest and processing									
technology									
Fry and fingerling rearing									
Any other (Extension)	01	17	17	02		02	19		19
TOTAL	05	86	86	14	01	15	100	01	101

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

	No. of				No. of	Participar	nts			
Area of training			General			SC/ST		(Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	01	27		27	03		03	30		30

Seed production										
Production of organic inputs	02	32		32	08		08	40		40
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of	01	29		29	02		02	31		31
farm machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal	01	11		11	04	01	05	15	01	16
products										
Dairying	01	14		14	06		06	20		20
Sheep and goat rearing	01	09	08	17	08	01	09	17	09	26
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other (pl.specify)	01	17		17	02		02	19		19
TOTAL	08	139	08	147	33	02	35	172	10	142

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

	No. of				No. c	of Particip	oants			
Area of training	No. of Courses		General			SC/ST		G	Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs	01	22	05	27	08	03	11	30	08	38
Women and Child care										
Low cost and nutrient efficient diet designing	02	10	04	14	07	05	12	17	09	26
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

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

	No. of				No. c	of Partici	pants			
Area of training	Courses		General			SC/ST		0	Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	01	40		40				40		40
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	01	40		40				40		40

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

	No. of	No. of Participants								
Area of training	Courses		General			SC/ST		Grand Total		al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	01	40		40				40		40
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	01	22	05	27	08	03	11	30	08	38
Women and Child care										
Low cost and nutrient efficient diet designing	02	10	04	14	07	05	12	17	09	26
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	03	72	09	81	15	08	23	87	17	104

Sponsored training programmes

	No. of	No. of Participants								
Area of training	Courses	General SC/ST					(Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										

Increasing production and productivity of crops Commercial production of vegetables Production and value addition Fruit Plants Ornamental plants Spices crops Soil health and fertility management Production of Inputs at site Processing and value addition Processing and value addition Fruit Plants Chars (pl. specify) Cotal Farm machinery, tools and implements Cothers (pl. specify) Cotal Farm machinery tools and implements Cothers (pl. specify) Cotal Farm machinery Fruit Plants Cotal Farm machinery Fruit Plants Fruit Plants Cotal Farm machinery Fruit Plants Fruit P				1		1
Production and value addition Fruit Plants Image: constraint of plants Ornamental plants Image: constraint of plants Image: constraint of plants Soil health and fertility management Image: constraint of plants Image: constraint of plants Soil health and fertility management Image: constraint of plants Image: constraint of plants Production of Inputs at site Image: constraint of plants Image: constraint of plants Methods of protective cultivation Image: constraint of plants Image: constraint of plants Others (pl. specify) Image: constraint of plants Image: constraint of plants Processing and value addition Image: constraint of plants Image: constraint of plants Others (pl. specify) Image: constraint of plants Image: constraint of plants Total Image: constraint of plants Image: constraint of plants Farm machinery, tools and implements Image: constraint of plants Image: constraint of plants Others (pl. specify) Image: constraint of plants Image: constraint of plants Image: constraint of plants Livestock and fisheries Image: constraint of plants Image: constraint of plants Image: constraint of plants Fisheries Management Ima	Increasing production and productivity of crops					
Fruit Plants Image: Constraint of the sectors of the sectors of the sector of the						
Ornamental plants Spices crops Image: Constraint of the spice o						
Spices cropsImage: spices cropsImage: spices cropsSoil health and fertility managementImage: spices cropsImage: spices cropsProduction of Inputs at siteImage: spices cropsImage: spices cropsMethods of protective cultivationImage: spices cropsImage: spices cropsOthers (pl. specify)Image: spices cropsImage: spices cropsPost harvest technology and value additionImage: spices cropsImage: spices cropsProcessing and value additionImage: spices cropsImage: spices cropsProcessing and value additionImage: spices cropsImage: spices cropsProtalImage: spices cropsImage: spices cropsImage: spices cropsTotalImage: spices cropsImage: spices cropsImage: spices cropsFarm machineryImage: spices cropsImage: spices cropsImage: spices cropsTotalImage: spices cropsImage: spices cropsImage: spices cropsTotalImage: spices cropsImage: spices cropsImage: spices cropsLivestock and fisheriesImage: spices cropsImage: spices cropsImage: spices cropsLivestock production and managementImage: spices cropsImage: spices cropsImage: spices cropsAnimal Nutrition ManagementImage: spices cropsImage: spices cropsImage: spices cropsAnimal Nutrition SecurityImage: spices cropsImage: spices cropsImage: spices cropsFisheries ManagementImage: spices cropsImage: spices cropsImage: spices cropsHousehold nutritional se						
Soil health and fertility management	Ornamental plants					
Production of Inputs at site <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Methods of protective cultivation Image: Constraint of the second se						
Others (pl. specify) Image: Constraint of the specify of the spec	Production of Inputs at site					
TotalImage: constraint of the section of	Methods of protective cultivation					
Post harvest technology and value additionImage: specify and value additionImage: specify additionProcessing and value additionImage: specify additionImage: specify additionImage: specify additionOthers (pl. specify)Image: specify additionImage: specify additionImage: specify additionImage: specify additionFarm machinery, tools and implementsImage: specify additionImage: specify additionImage: specify additionImage: specify additionTotalImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionTotalImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionAnimal NutritionImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionFisheries NutritionImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionTotalImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionHousehold nutritional securityImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionDrudgery reduction of womenImage: specify additionImage: specify additionImage: specify additionImage: specify additionImage: specify additionDrudgery reduction o	Others (pl. specify)					
Processing and value additionImage: specifyImage: specifyImage: specifyTotalImage: specifyImage: specifyImage: specifyFarm machinery, tools and implementsImage: specifyImage: specifyFarm machinery, tools and implementsImage: specifyImage: specifyChters (pl. specify)Image: specifyImage: specifyTotalImage: specifyImage: specifyTotalImage: specifyImage: specifyTotalImage: specifyImage: specifyLivestock and fisheriesImage: specifyLivestock and fisheriesImage: specifyLivestock production and managementImage: specifyAnimal Nutrition ManagementImage: specifyAnimal Disease ManagementImage: specifyFisheries NutritionImage: specifyTotalImage: specifyImage: specify	Total					
Processing and value additionImage: specifyImage: specifyImage: specifyTotalImage: specifyImage: specifyImage: specifyFarm machinery, tools and implementsImage: specifyImage: specifyFarm machinery, tools and implementsImage: specifyImage: specifyChters (pl. specify)Image: specifyImage: specifyTotalImage: specifyImage: specifyTotalImage: specifyImage: specifyTotalImage: specifyImage: specifyLivestock and fisheriesImage: specifyLivestock and fisheriesImage: specifyLivestock production and managementImage: specifyAnimal Nutrition ManagementImage: specifyAnimal Disease ManagementImage: specifyFisheries NutritionImage: specifyTotalImage: specifyImage: specify	Post harvest technology and value addition					
TotalImage: Constraint of the systemFarm machineryImage: Constraint of the systemFarm machinery, tools and implementsImage: Constraint of the systemOthers (pl. specify)Image: Constraint of the systemTotalImage: Constraint of the systemLivestock and fisheriesImage: Constraint of the systemLivestock production and managementImage: Constraint of the systemAnimal Nutrition ManagementImage: Constraint of the systemAnimal Disease ManagementImage: Constraint of the systemCothers (pl. specify)Image: Constraint of the systemTotalImage: Constraint of the systemHousehold nutritional securityImage: Constraint of the systemEconomic empowerment of womenImage: Constraint of the systemDrudgery reduction of womenImage: Constraint of the systemOthers (pl. specify)Image: Constraint of the systemTotalImage: Constraint of the systemDrudgery reduction of womenImage: Constraint of the systemCothers (pl. specify)Image: Constraint of the systemTotalImage: Constraint of the systemDrudgery reduction of womenImage: Constraint of the systemCothers (pl. specify)Image: Constraint of the systemTotalImage: Constraint of the system </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Farm machineryImage: specifyImage: specifyGothers (pl. specify)Image: specifyImage: specifyTotalImage: specifyImage: specifyLivestock and fisheriesImage: specifyLivestock production and managementImage: specifyAnimal Nutrition ManagementImage: specifyAnimal Disease ManagementImage: specifyFisheries NutritionImage: specifyFisheries NanagementImage: specifyCothers (pl. specify)Image: specifyTotalImage: specifyHome ScienceImage: specifyHousehold nutritional securityImage: specifyEconomic empowerment of womenImage: specifyDrudgery reduction of womenImage: specifyOthers (pl. specify)Image: specifyTotalImage: specifyImage: specify <td>Others (pl. specify)</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Others (pl. specify)					
Farm machinery, tools and implementsImage: constraint of the second	Total					
Others (pl. specify)Image: specify and specific and speci	Farm machinery					
TotalImage: Constraint of the second sec	Farm machinery, tools and implements					
Livestock and fisheriesImage: Constraint of the second	Others (pl. specify)					
Livestock production and managementImage: starting of the starting of	Total					
Animal Nutrition ManagementImage: Constraint of the second se	Livestock and fisheries					
Animal Disease ManagementImage with the second	Livestock production and management					
Fisheries NutritionImage: Constraint of the specifyImage: Constraint of the specifyImage: Constraint of the specifyTotalImage: Constraint of the specifyImage: Constraint of the specifyImage: Constraint of the specifyHousehold nutritional securityImage: Constraint of the specifyImage: Constraint of the specifyFeconomic empowerment of womenImage: Constraint of the specifyImage: Constraint of the specifyOthers (pl. specify)Image: Constraint of the specifyImage: Constraint of the specifyOthers (pl. specify)Image: Constraint of the specifyImage: Constraint of the specifyTotalImage: Constraint of the specifyImage: Constraint of						
Fisheries ManagementImage with the specifyImage with the specifyOthers (pl. specify)Image with the specifyImage with the specifyTotalImage with the specifyImage with the specifyHousehold nutritional securityImage with the specifyImage with the specifyEconomic empowerment of womenImage with the specifyImage with the specifyDrudgery reduction of womenImage with the specifyImage with the specifyOthers (pl. specify)Image with the specifyImage with the specifyTotalImage with the specifyImage with the specifyTotalImage with the specifyImage with the specify	Animal Disease Management					
Others (pl. specify)Image: constraint of the specify of the specific the specif	Fisheries Nutrition					
TotalImage: Construction of the specifyImage: Construction of the specifyImage: Construction of the specifyOthers (pl. specify)Image: Construction of the specifyImage: Construction of the specifyImage: Construction of the specifyTotalImage: Construction of the specifyImage: Construction of the specifyImage: Construction of the specifyTotalImage: Construction of the specifyImage: Construction of the specifyImage: Construction of the specifyTotalImage: Construction of the specifyImage: Construction of the specifyImage: Construction of the specify	Fisheries Management					
Home ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceHousehold nutritional securityImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceEconomic empowerment of womenImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceDrudgery reduction of womenImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceOthers (pl. specify)Image: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceTotalImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: ScienceImage: Science	Others (pl. specify)					
Household nutritional securityImage: constraint of womenImage: constraint of womenImage: constraint of womenDrudgery reduction of womenImage: constraint of womenImage: constraint of womenImage: constraint of womenOthers (pl. specify)Image: constraint of womenImage: constraint of womenImage: constraint of womenTotalImage: constraint of womenImage: constraint of womenImage: constraint of women	Total					
Economic empowerment of women Image: Constraint of women Image: Constraint of women Drudgery reduction of women Image: Constraint of women Image: Constraint of women Others (pl. specify) Image: Constraint of women Image: Constraint of women Total Image: Constraint of women Image: Constraint of women	Home Science					
Drudgery reduction of women Image: Constraint of women <t< td=""><td>Household nutritional security</td><td></td><td></td><td></td><td></td><td></td></t<>	Household nutritional security					
Others (pl. specify) Image: specify in the specific sp	Economic empowerment of women					
Total	Drudgery reduction of women					
Total	Others (pl. specify)					
Agricultural Extension						
	Agricultural Extension		 			

CapacityBuilding and Group Dynamics							
Others (Cashless village)	01	18	18	13	13	31	31
Total							
GRAND TOTAL	01	18	18	13	13	31	31

Details of vocational training programmes carried out by KVKs for rural youth

	No. of					Participan	ts			
Area of training	Course		General		SC/ST			Grand Total		
	S	Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and										
management										
Commercial floriculture										
Commercial fruit production										<u> </u>
Commercial vegetable production										<u> </u>
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and										
value addition										
Value addition	01	20	15	35	10	10	20	30	25	55
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming	01	20		20				20		20
Composite fish culture										
Sheep and goat rearing	02	27	09	36				36		36
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										

Production of bio-agents, bio- pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group										
dynamics										
Others (pl. specify)										
Total										
Grand Total	04	67	24	91	10	10	20	86	25	111

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	168	9186	247	9433
Diagnostic visits	17	107	11	118
Field Day	06	112	03	115
Group discussions	09	112	18	130
KisanGhosthi	3	121	12	133
Film Show	1			
Self -help groups	1	15		15
KisanMela	1	147	4	151
Exhibition	9	417	11	428
Scientists' visit to farmers field	18	123	11	134
Plant/animal health camps				
Farm Science Club	17	103	11	114
Ex-trainees Sammelan	4	83	14	97
Farmers' seminar/workshop				
Method Demonstrations	8	103		103
Celebration of important days	8	214	15	229
Special day celebration	14	395	23	418
Exposure visits	7	74	15	89
Others (pl.specify)				
Total	291	11312	395	11707

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	06
Extension Literature	16
Newspaper coverage	92
Popular articles	28
Radio Talks	22
TV Talks	02
Animal health amps (Number of animals treated)	03
Others (pl. specify)	
Total	169

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

Production	of seeds	by the KVKs
------------	----------	-------------

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals						
	Wheat	Loc-1		7.5	13875	32
	Kharif Jowar	CSH-9		32.40	42120	44
	Rabi Jowar	Parbhani Moti		14	35000	28
Oilseeds						
	Soybean	MAUS-71		27	216000	12
	Soybean	MAUS-158		13.5	108000	10
	Soybean	KDS-344		19.65	157200	17
	Soybean	MACS-1188		4.5	29250	22
Pulses						
	Green gram	Utkarsha		05	22500	12
	Black gram	TAU-1		3.5	16450	35
	Red gram	BDN-711		5.50	66000	52
	Bengal gram	Jaki-9218		12.5	87500	72
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
	Sugarcane	Co-86032	2	102 ton	2142000	20
Total				145.5	2935895	356

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial			_			
Vegetable seedlings	Drumstick	Coimbatore-1		504	10080	30
	Tomato	S-7		1200	2400	40
	Brinjal	Gaurav		900	1800	40
	Cabbage	N-80		500	1000	50
	Cauliflower	S-996		500	1000	40
	Onion (red)	Nashik Red		1200	2400	50
	Onion (white)	White marglobe		1200	2400	50
Fruits	Mango	Keshar		275	16500	18
	Mango	Dashari		225	13500	14
Ornamental plants	Bougainvillea	Local		500	1000	50
	Croton	Local		500	1000	50
	Golden durenta	Local		500	1000	50
Medicinal and Aromatic						
Plantation						
Spices	Chili	Pusa, Jwala		2500	5000	100
Tuber						
Fodder crop saplings	Hybrid Napier	DHN-6		4900	4900	10
Forest Species	Ashoka	Local		400	800	50
	Almond	Local		200	1000	50
	Bael	Local		100	500	50
Total				16104	66280	742

Production of Bio-Products

	Name of the bio-	Quantity	T	
Bio Products	product	Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
	Vermi culture	30 kg	12000/-	60
Bio-pesticide				
Bio-fungicide	Trichoderma	505 kg	50500/-	187
Bio Agents				
Others				
Total		535	62500	247

Production of livestock materials

	Name of the	Number	Value (Rs.)	No. of
Particulars of Live stockbreed			, , ,	Farmers
Dairy animals				
Cows				
Buffaloes				
Calves	Deshi	03	Rs.36000/-	
Others – Goats	Osmanabadi	10	Rs.42500/-	07
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		13	78500	07

4. /Published (with full title, author & reference)
A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)
B. Literature developed/published

ltem	Title	Authors name	Number
Research papers	Production of Azolla in different	Dr. Mahesh Ambore	01
	condition and its comparative study		
Technical reports			
News letters			
Technical bulletins			
Popular articles	Onion cultivation methods	Dr. Devikant Deshmukh	140
	Grampriya - Egg producing poultry	Dr. Mahesh Ambore	140
	bird		
	Management of fodder in drought	Dr. Mahesh Ambore	150
	condition		
	Marathwada region - Quality livestock	Dr. Mahesh Ambore	145
	producing mine		
	Dog production business a		80
Extension literature	Goat farming	Dr.Ambore M.N	500
	Groundnut cultivation	Mr. Sandip Jaybhaye	500
	IPM in Groundnut	Mr. Kalyankar M. G	500
	Ginger cultivation & Processing	Dr. Devikant Deshmukh	500
	IPM in Chick pea	Mr. Kalyankar M.G.	500
	BT- cotton cultivation	Mr. Sandip Jaybhaye	500
	Soybean cultivation	Mr. Sandip Jaybhaye	500
	Green gram & Black gram cultivation	Mr. Sandip Jaybhaye	500
	Kitchen gardening	Dr. Devikant Deshmukh	500
	Custard apple cultivation	Dr. Devikant Deshmukh	500
	Soil testing	Mrs. Nadre S.R. Dr.	500
		Devikant Deshmukh, Mr.	
		Ingole R R	
	Red gram cultivation	Mr. Sandip Jaybhaye	500
	Turmeric cultivation	Dr. Devikant Deshmukh	500
	Fodder cultivation of Phule Jaywant	Dr. Mahesh Ambore	500
	variety		
	Azolla Production for animals	Dr. Mahesh Ambore	500
	Pest management in cotton	Mr. Kalyankar M.G.	500
	Vermi compost management	Mrs. Nadre S. R.	500
	Rabi Sorghum Cultivation	Mr. Sandip Jaybhaye	500
	Wheat cultivation	Mr. Sandip Jaybhaye	500
	KVK at Glance	Mrs. Nadre S. R.,	500
	Drumstick cultivation	Dr. Devikant Deshmukh	500
	Watermelon cultivation, Pest &	Dr. Devikant Deshmukh,	500
	disease management	Mr. Manik Kalynkar	
Others (Pl. specify)			
TOTAL			

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
01	DVD	Soil testing	01

- D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).
 - 1. Case study of Successful farm women Sow. Shantabai Ramrao Pawade



Name: Sow. **Sow. Shantabai Ramrao Pawade** Village :Pawadewadi Tq Nanded Dist. Nanded Age 52, Education 7th, Land Holdind 2 hector, Farming Experience: 20 (Traditional Manner) **Recognition**: Best Farmwomen awarded by Reliance foundation.

Description of activities

• KVK Pokharni started Laxmi self help group at Pawadewadi in the year 2012.

• Imparted vocational training on Nutritional garden in March 2013.

- Seeds seedling provided for Nutritional garden from KVK Front line program.
- Self Help Group started the venture in june2013 ten Nutritional gardens.
- Within six month started production of vegetables leafy vegetables like Spinach Sepu Methi Chuka,Okra, Bitter guard, Ridge guard, Cowpea, Cluster bean, Cucumber, Pumpkin, Bottle guard, Snake guard, Drumstick, Brinjal, Chilli, Tomato etc. Onion &Garlic.
- By selling vegetables onion ,Garlic grouped earned Rs15000/-
- Visualizing the profit group started increasing area.
- Presently group started selling Vegetables ,onion &garlic in Vegetables market &door to door 15 ton onion 500kg garlic produced &sell they getRs15000/-to 20000/-.
- Improve the family health.







2. Success Story on Integrated Pest management in Tomato

- Name of Farmer :- Mr. Sunil Shinde
- Village:-Vasantwadi Tq. Mudkhed Dist- Nanded
- Land Holding:- 7 acres (Joint family)
- Crop Cultivated:- Tomato, Brinjal, Bitter guard, Bottle guard etc.
- He continuously cultivate these crops with many difficulties like incidence of pest and diseases like leaf curl virul, early blight, wilting etc. He uses more and more chemical spray for the management of these pest and diseases. But he has unable to manage it completely.

Plan of KVK to implement IPM technology:-

During a training programme at KVK, Pokharni, Mr. Sunil Shinde has come in contact with the KVK scientist and discussed about his problem. The KVK scientists have immediately visited to his field/ village. They observed that there were no proper implementations of Pest Management techniques particularly from Nursery to field and also no use of disease resistance variety.

The technology involves as-

- i) Use of 'Arka Rakshak', high yielding F1 Hybrid with triple disease resistance variety for planting.
- ii) Raising of seedlings in protray by protecting with insect net structure in nursery.
- iii) Plantation of Maize and Cow pea as barrier crop on border of the field.
- iv) Use of sticky traps, pheromone traps.
- v) Use of plant origin bio pesticides for pest management along with judicious use of chemical pesticides.

The technology was taken up in Vasantwadi Ta. Mudkhed, Dist. Nanded and was successfully demonstrated. The practice of replacing the variety with Arka Rakshak helps in minimizing the pest and disease incidence and so increasing in yield. The entrance of virus vectors like White Fly and Thrips were restricted due to barrier Maize crop. The yellow and blue sticky traps also help to manage the sucking pest. Pheromone traps also helps to monitor the pest like Fruit borer, Tuta absulata Leaf minor.

Mr. Sunil Shinde has raised 2800 seedlings in a half an acre plot during summer 2015-2016. He could harvest an average 6.6 kg per plant and fetched high price in summer, earned a net profit of about Rs. 1,85,000/-. Integrated Pest Management techniques have reduced the indiscriminate use of Chemical pesticides. So the cost of a plant protection gets reduced by 50% and also the number of sprays.

SI.	Particular	Demo plot	Farmers plot
No.			
1.	Raising of seedlings	In Pro tray with insect Net	On raised beds without Insect net
		protection	protections
2.	Border Barrier crop	Maize and cowpea	No, Barrier crop
3.	Variety	Arka Rakshak	Ganga -505
4.	Pest and disease	10%	35- 50%
	incidence		
5.	No. of spray	9	20
6.	Cost of plant protection	13500	22300
7.	Yield per acre	24 Ton.	20 Ton
8.	Gross profit (Rs.)	3,99,840/-	3,33,200/-
9.	Cost of cultivation	120000/-	150000/-
10	Net Profit	2,79,840/-	1,83,200/-

Comparative study on Cost of cultivation



Training to Tomato Growers on Integrated Pest Management at KVK.

Raising of Seedlings in Nursery protected with Insect proof net.



Use of plastic mulch and trap crop of Maize



Implimentation of Integrated Nutrient management





Installation of Yellow sticky traps for Sucking pest

Installation of Blue sticky traps attached with lure for *Tuta absulata* leaf minor



Visit of Dr B.B.Bhosle, Director of Extension, VNMKV, Parbhani on Demonstration plot at Vasantwadi, Tq. Mudkhed

3. Arakarakshak Tomato F1 becomes boon to Tomato growers of District

Tomato is mostly grown on more or less scale on each and every block of the district. It is most important vegetables of the district but since 3 to 4 years tomato growers they received heavy loss from the tomato due to the attack of pest and disease particularly the tomato growing belt of the district mainly include Vasantwadi, Shankar nagar, Chikala, Rohi Pimpalgoan from Mudkhed Tahsil, Talegaon, Balegaon, Nagthana and Beldara of Umri Tahsil, Loha and Nanded Taluka along with Ardhapur. Due to this Severe attack of pest and disease which mainly include white fly, Tomato leaf curl virus, Blight all Tomato cultivation comes in danger. After the interaction of KVK Pokharni scientist and farmers it was decided to replace old one existing hybrids by 'Arkarakshak' i.e. Triple resistant F1 Hybrid of Tomato release by IIHR, Bangalore. Dr. Deshmukh D.A. Scientist (Horticulture) of KVK Pokharni Nanded MS after communication to Dr. A.T. Sadashiva sir Head vegetable division IIHR Bangalore and Dr. P.K. Gupta Joint director NHRDF Nashik. Receive seed of Arkarakshak and Trial had been conducted at village Vasantwadi, Tq. Mudkhed, Dist- Nanded Maharashtra which is popularly known as tomato village. Thus this Trial has been start by rising of seedling in a seedling tray with sterilize Cocopit and then seed of Arkarakshak dibbled in tray and that tray watered with the help of sprinkler. Thus when seedlings become 24 to 26 days old after primary hardening they were planted on raised bed before this proper tillage operation should be followed by deeploughing and Harrowing by adding well rotten FYM along with Trichoderma powder. Thus the seedling of Arkarakshak which are becomes 5-6 week old they were transplanted on the main field at the distance 2.5 x 4.5 feet by laying drip laterals on the bed and mulching over it. The mulching paper is 1.2 meter in width and 3000 meter in length of 30 micron thickness. Land preparation should be done as per the recommendation by VNMKV Parbhani and IIHR Bangalore. At the time of transplanting care should be taken that seedling should not touch to the drip line and mulch paper.

Immediately after transplanting i.e. on 15th March 2016 light irrigation should be given for 20-40 minutes along with water soluble fertilizer and should be continue after 23 weeks. The total duration of Arkarakshak F1 is 26 week. After fertigation 5gm /lit foliar application of micronutrient along with secondary nutrient it should be continued from 45 days at every 15 days interval. When Arkarakshak F1 start bearing fruits for the proper aeration and sunlight and better growth and less attack of pest and disease it should be given supporting with the help of Bamboo sticks and iron wires. Management of pest and disease is done as per the schedule given by IIHR Bangalore. In this way this innovative farmer earn Rs.350000/- from 1 acre cultivation of Arkarakshak under the guidance and timely inspection by the KVK Pokharni scientist. The result of this successful trial of Arkarakshak communicated to Dr. A.T Sadashiva, Head Division of vegetable IIHR Bangalore and DEE Dr. B.B. Bhosale sir VNMKV Parbhani who visited this trial and gave good remarks regarding the trial. KVK Pokharni also arranged meeting and interaction of Progressive farmers sunil shinde with A T Sadshiva sir in Bangalore and A. T. Sadashiva sir appreciate the work and the trial of Arkarakshak by KVK Pokharni Nanded MS. The success of this F1 also broadcast on SAAM TV through which Arkarakshak reaches every farmers of Maharashtra and its neighboring states. Every KVK in Maharahstra particularly marathawada gave priority to this F1 in their action plan 2017-18 so as to make its maximum reach.

After the successful trial of Arkarakshak now KVK Pokharni conducting trials of "Arkasamrat new F1" of Tomato along with Arkaharita and Khyati at same village.



Dignistic visit by Dr.B.B.Bhosale sir DEE VNMKV, Parbhani with KVK Pokharni scientist



Dr.D.A.Deshmukh Scientist horticulture addressing farmers during field visit on Arkarakshak at village vasantwadi tq mudkhed



Fruits of F1 Arkarakshak & Progressive farmer Sunil shinde

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Banana	Most of the Banana farmer they are using dry grass and paddy straw to cover and protect the bunch from the sun burn and hot wind injuries.	To protect the bunch from the hot winds and direct exposure of sunlight on the banana stalk to avoid breakage of bunch.
2	Turmeric and Banana	Both Turmeric and Banana Grower they are using old Sarris as a fence around the orchards.	To protect the banana and turmeric crop from the attack and injuries of wild pigs and other animals.
3	Fruit crops	Mostly fruit growers sweet orange, mandarin growers in order to provide water to fruit crops under water deficit condition using plastic bottles few distance away from the main stream by burying down the cutted bottle in the ground so as to supply moisture to the roots to save orchards.	To save the orchards during hot summer under drought condition.
4	Sugarcane	Farmers they are using old saris all around the sugarcane crop field to protect from wild animals such as wild pigs and bears.	To protect the sugarcane attack from wild animals.
5	Sorghum	Tying plastic carry bags to sticks of 2' height and stacked in the boundary with escapement of 2 meter this technique is carried out scare away the squirrel from damaging the sorghum seed sown.	The sound of the whirling wind and bags caused will scare away squirrel & birds.
6	Groundnut	Use of polyethylene covers sticks in field scare off birds in groundnut.	To protect the groundnut from birds and wild animals.
7	Cotton & soybean	Rising of sorghum as mixed crop as cotton & soybean as bird perches.	The farmers raise sorghum as a mix crop scattered in cotton field. The grain of sorghum attacks the birds and served as a perches for the birds to reach the insect of cotton plants.
8	Cotton	Use of Okra crop for pest control for cotton. Farmers grow 2-3 lines of Okra plants surrounding the cotton field. Cotton is more susceptible to insect pest like bollworm, worm and jassid etc. farmers believe that pest prefer okra plant as compare to cotton	pest is control by simply destroying okra plants attack by insect pest

		plant and attack first.	
9	Sugarcane	Mulching the field with trash.	To control the shoot borer in sugarcane leaf minor in groundnut.
10	Cattle	In case of Alopecia topical application of groundnut oil and turmeric paste is apply.	For hilling of the patches and to grow the hairs.
11	Cattle & Buffalo	In case of Alopecia farmers make juice of early stage wheat leaf and apply on the patches of hair loss.	It is used for growing of hairs.
12	Cotton	Fertilizer application directly to putting the fertilizer in between row & after that hoeing this carried on this row.	It saves labor & easy for application. 1-2 labors are sufficient for this.
13	Rabi season	Use of preventive measure waste tapes is binding to Jawar head at the milk stage of jawar.	To protection from birds.

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

A. Practicing Farmers

- a) PRA Survey.
- b) Farmers and scientist interaction.
- c) Field day

B. Rural Youth

- a) Group discussion.
- b) Skill development counseling.
- c) Exposure visit
- d)

C. In-service personnel

- a) Field visit.
- b) Diagnostic visit.
- c) Field level observations.

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

- i) **PRA**
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any-field and Diagnostic visit.

For FLD:

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

5.3. Field activities

- i. Name of villages identified/adopted with block name (from which year) Hadgaon
- ii. No. of farm families selected per village : 50
- iii. No. of survey/PRA conducted :02
- iv. No. of technologies taken to the adopted villages:- 03
- v. Name of the technologies found suitable by the farmers of the adopted villages: Front line Demonstration & Group Discussion.
- vi. Impact (production, income, employment, area/technological- horizontal/vertical):-
- vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES A. Functional linkage with different organizations

Name of organization	Nature of linkage
National Institute of Plant Health Management, Hyderabad.	Transfer of technology for On Farm Production of Bio Pesticides, Bio Fertilizers and Bio Agent.
Vasantrao Naik Marathwada Agricultural	Collaborative Symposium on different crop.
University, Parbhani.	Continuously provide all possible technical guidance to KVK scientist.
D.S.A.O.	i) Participate in Kisan Mela, Farmers rally & and visits of various research trails.
A.H. Department	Participation in Seminars, Cattle Show, Cattle Camp, Organized by KVK supply inputs like layers, goats, vaccines etc. to ex-trainees gives training on Poultry management, Goat Management.
Dept. of Horticulture	Supplied Horticulture and Forest Plants. Giving Technical advices to selected farmers by KVK. Jointly working on demonstration of fruit crops cultivation.
Dept. of Sericulture	Gives training to KVK farmers, supply mulberry stumps, eggs and other material require for rearing to trainees.
Cotton Research Station, Nanded	Arranging monthly workshop in order to discuss new research and technical achievements in a crop cultivation mainly Cotton.
Krishi vigyan Mandal	Arrange Shetkari Melava on organic farming and shown Video Film in the district.
A.I.R. Nanded & Parbhani	Co-operating in arranging Radio Talks of KVK selected farmers.
District industrial centre	Gives training to the unemployed rural youth
Zilla Parishad (ICDP)	Arranged Training for Anganvadi Sevika, Supervisor in supplemental foods. Diet of permanence Lactating mother.
Maharashtra Council of Agricultural Education and Research (MCAER) Pune.	Consultancy and Self-Employment courses for Rural unemployed youth.
PDBC, Bangalore.	IPM and Biological methods for controlling plant diseases and pests, which is researched by PDBC.
NIAM, Faridabad	Training on Rural Godown
NABARD	Set up of SHG in rural areas. Formation of TTC in the villages.
Dist. Fisheries Dept, Nanded	For conducting training programme.
Govt. Aurvedic College Nanded	Co-ordination and affiliation.
Dept. of health, DOH, Nanded	Joins working on nutrition training programme for the people of SC/ST and below poverty

	line.
ATMA Nanded	Training Programme. Field Visit and other extension activities.
Swami Ramanand Teerth Marathwada University Nanded	Training, Extension & Research.
NES science college Nanded	Training & Research.

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Jalyukt Shivar Abhiyan	July 2017	SAO Nanded	173264/-
Soil testing	May 2017	SAO Nanded	1820000/- (out of this only Rs.780368/- received till date)
National Food Security Mission	July 2017	SAO Nanded	29100/-
MAHABEEJ	May 2017	Mahabeej	19540/-
Kamdhenu	May 2017	Animal Husbandry department	14350/-

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

If yes, role of KVK in preparation of SREP of the district? **Coordination activities between KVK and ATMA**

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings		18	07	
02	Research projects				
03	Training programmes		08	12	
04	Demonstrations		07	03	
05	Extension Programmes				
	Kisan Mela		01	01	

	Technology Week			
	Exposure visit	01	01	
	Exhibition	01	01	
	Soil health camps	01	01	
	Animal Health Campaigns	01	01	
	Others (Pl. specify)			
06	Publications			
	Video Films			
	Books			
	Extension Literature	08	07	
	Pamphlets	10	10	
	Others (PI. specify)			
07	Other Activities (Pl.specify)			
	Watershed approach			
	Integrated Farm Development			
	Agri-preneurs development			

D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
01	Plant health clinic	Established under NHM, at KVK Nanded	200000/-	2324941/- (Rs.324941/- borne by KVK)	
02	Farm Pond	Established under NHM, at KVK Nanded	500000/-	1012000/-	

E. Nature of linkage with National Fisheries Development Board

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

F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
01	Establishment Of Hatchery Unit At Different Villages Of Nanded District	Project submitted	Not yet		Project submitted for sanction to RKVY
02	Establishment Of Kisan Call Centre	Project submitted	Not yet		Project submitted for sanction to RKVY
03	Innovative Project For Establishment Of Onfarm Production Unit Of Microbial Biopesticides And Biofertilizer Through Farmers Group	Project submitted	Not yet		Project submitted for sanction to RKVY
04	Establishment Of Soybean Processing Centre	Project submitted	Not yet		Project submitted for sanction to RKVY
05	Increasing Productivity Of Sugarcane Crop By Farm Mechanization Under Rashtriya Krishi Vikas Yojana	Project submitted	Not yet		Project submitted for sanction to RKVY
06	Financial assistance for product of Ground and processed spices	Project submitted	Not yet		Project submitted for sanction to RKVY

7. Convergence with other agencies and departments:

8. Innovator Farmer's Meet

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

9. Farmers Field School (FFS)

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

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

1) Feedback from farmers regarding demonstration of Arka Rakshak Tomato.

2) Feedback- Regarding demonstration on use of skirting bag.

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

1) Regarding trial of Arka Rakshak F1 in Tomato. Submitted to IIHR, Benguluru to Dr.A.T. Sadashiva, Head, Division of Vegetable IIHR Bangalore.

to

2) Use of Skirting bag in Banana:- Technical feedback submitted to reliance plastic division for changing the colour of bag from blue to white.

11. Technology Week celebration during 2017-18 No, If Yes

Period of observing Technology Week: From

Total number of farmers visited

Total number of agencies involved

Number of demonstrations visited by the farmers within KVK campus:

Other Details

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

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

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
Maharashtra	Chick pea	17	42
	Red gram	05	15
	Soybean	06	20
	Rabi sorghum	05	15
	Safflower	02	05
	Drumstick	0.025	32
	Tomato	0.025	05
	Aonla	0.025	05
	Mango	0.025	05

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	03	10
Pulses	02	07
Cereals	10	22
Vegetable crops	10	48
Tuber crops	20	36
Total	45	123

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of	No.of participants
		interactions	
Maharashtra	Cattle & Buffalo	01	26
Maharashtra	Goat	02	48
Maharashtra	Poultry	01	28

D. Animal health camps organized

State	Number of camps	No.of animals	No.of farmers
Maharashtra	01	22	45
Total	01	22	45

E. Seed distribution in drought hit states

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

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource	Area (ha)	Number of
	conservation technologies introduced		farmers
Maharashtra	Soybean, Sugarcane, Banana	52	104
Total		52	104

G. Awareness campaign

State	Meetings		Gosthies		Field	Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	
	01	45	08	1100	08	750	03	350	04	435	04	85	
Total	01	45	08	1100	08	750	03	350	04	435	04	85	

13. IMPACT

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

Name of specific technology/skill	No. of	% of	Change in inc	Change in income (Rs.)			
transferred	participants	adoption	Before	After (Rs./Unit)			
			(Rs./Unit)				
Seed production in onion	12	30%	50000/ acre	300000/acre			
Dal making	52	60%	2000/-	10000/-			
Kitchen Gardening	15	65 %	Nil	10,000/-			
Vermi Compost Preparation	32	70 %	Nil	3000 per month			
Drudgery Reduction	20	80%	Nil	3500/-			
Groundnut Decorticator							
Goat Farming							
Preparation of Azola for milking animals	20	70%	Nil	4000/-			
Post harvesting Technology for Pulses	52	72%	Nil	72000/- per			
Preparation of Dal				season			
Package and practices of Pulses	30	70%	50600	60600			
Improved varieties of Soybean and Red	45	35%	12000	15000			
Gram MAUS-71 and BDN-711							
Improved varieties of Chick Pea Jaki-	25	75%	10500	23300			
9218 and Digvijay							
Contingency Crop Planning under		65%		15000			
uncertain Rain fall situation.							
Use of Skirting bags in Banana	15	10	18 Kg	22 Kg			
		(66.66%)	18x20 = 360	22x20 = 440 Rs.			
			Rs. Per plant	Per plant			
Varietal Replacement (10-01)	15	15	12 Kg	27 Kg			
		(100%)	12x20 =	27x20 = 540 Rs.			
			240Rs.	Per Tree			
			Per Tree				

B. Cases of large scale adoption (Please furnish detailed information for each case)

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

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2017	03	8407	
May 2017	03	8453	
June 2017	03	8470	
July 2017	03	8402	
August 2017	03	8434	
September 2017	03	9183	
October 2017	01	9183	
November 2017	02	9186	
December 2017	02	9186	
January 2018	02	9186	
February 2018	01	9186	
March 2018	01	9186	
Total	27		

			Type of Messages							
Name of KVK	Message Type	Crop	Livesto ck	Weat her	Marke -ting	Aware -ness	Other enterpris e	Total		
	Text only	11	05		07	04		27		
KVK Nanded-	Voice only									
Nanueu- 1	Voice & Text both									
	Total Messages									
	Total farmers Benefitted	60532	43680		52107	35224		1915 43		

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

		Year of	Area	Detai	Is of production	on	Amou	nt (Rs.)	
SI. No.	Demo Unit	establishment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
01	Azolla unit	2013	150 sq.ft.			55 kg	200/-	3300/-	
02	Fodder unit	2013	0.025 ha	DHN-6, Phule Jaywanat	Green fodder	16 ton/ four cuttings	1740/-	2,40,000/-	The fodder is utilized for cattle, bullocks, buffalo of instructional farm.
03	Vermi compost	2011	02 ponds	Eisenia fetida		52 kg		3000/-	

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

Nama	Date of	Data of	a —	De	tails of production	on	Amour	nt (Rs.)	
Name of the crop	sowing	Date of harvest	Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals									
Wheat	25 th November 2017	7 th March 2018	0.40	Loc-1		7.5 qtl	5500	13875	
Kharif Jowar	19 th June 2017	10 th October 2017	1.20	CSH-9		32.40 qtl	15060	42120	
Rabi Jowar	4 th November 2017	3 rd April 2018	1.20	Parbhani Moti	Truthful	14 qtl	12500	35000	
Pulses									
Green gram	18 th June	2 nd	0.80	Utkarsha		05 qtl	10000	22500	

	2017	September 2017							
Black gram	18 th June 2017	12 th September 2017	0.40	TAU-1		3.5 qtl	6500	16450	
Red gram	20 th June 2017	25 th January 2018	0.80	BDN- 711	Truthful	5.50 qtl	4500	66000	
Bengal gram	15 th December 2017	21 st March 2018	1.60	Jaki- 9218	Truthful	12.5 qtl	15600	87500	
Oilseeds									
Soybean	19 th June 2017	20 th October 2017	1.60	MAUS- 71	Foundation	27 qtl	50200	216000	
Soybean	20 th June 2017	20 th October 2017	1.60	MAUS- 158	Foundation	13.5 qtl	50200	108000	
Soybean	20 th June 2017	25 th October 2017	1.60	KDS- 344	Foundation	19.65 qtl	50200	157200	
Soybean	21 st June 2017	25 th October 2017	0.40	MACS- 1188	Truthful	4.5 qtl	9500	29250	
Fibers									
Cotton	15 th June 2017	25 th October 2017	0.80	First class		10.5 qtl	22000	51450	
Spices & Planta	tion crops		1	1					
Floriculture									
Fruits									
Vegetables									
Others (specify))								
Sugarcane	November 2016	2 nd December 2017	1.2	Co- 86032		102 ton	100200	214200	

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

SI.	Name of the	0	Amou	Pomorko	
No.	Product	Qty	Cost of inputs	Gross income	Remarks
01	Vermi culture	30 kg	1700/-	12000/-	
02	Trichoderma	505 kg	10000/-	50500/-	

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

SI.	Name	Details of production			Amou	nt (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Goat	Osmanabadi	Buck	10	12000/-	42500/-	
2	Cow	Deshi/ ND	Bullocks	02	15000/-		Not sold yet

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2017			
May 2017			
June 2017			
July 2017			
August 2017			
September 2017			
October 2017			
November 2017			
December 2017			
January 2018			
February 2018			
March 2018			

F. Database management

S. No	Database target	atabase created	

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

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

16. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank of India	Dr Lane, Nanded	433	JNIESTR	32939437778	431002881	SBIN0000433
With KVK	State Bank of India	Dr Lane Nanded	433	KRISHI VIGYAN KENDRA	32939439159	431002881	SBIN0000433

B. Utilization of KVK funds during the year 2017-18 (Rs. in lakh)

S. No.	Particulars	Sanctione d	Released	Expenditure
	ecurring Contingencies			1
1	Pay & Allowances	8308000	8308000	8307302
2	Traveling allowances	138000	138000	138709
3	Contingencies	1044000	1044000	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			106812
В	POL, repair of vehicles, tractor and equipments			281122
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			18690
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			151327
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			4700
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			33751
G	Melawa Expenses			25685
Н	Maintenance of farm			210929
1	Soil Health card, refilling and printing			196353
J	Publication and Literature			1650
	TOTAL (A)			1031019
B. No	on-Recurring Contingencies			
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOT	AL (B)			
C. R	EVOLVING FUND			
GRA	ND TOTAL (A+B+C)	9490000	9490000	9477030

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
April 2015 to March 2016	1,31,129	22,96,924.40	19,72,099	4,55,954.40
April 2016 to March 2017	455954.40	2499855	2617823	337986.40
April 2017 to March 2018	337986.40	3009698.05	2695071.40	652613.05

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Mr. Kalyankar M.G.	Scientist (Plant Protection)	Workshop on Skill Development in Agriculture	NAARM, Hyderabad	20 th – 21 st January 2017
Mr. Kalyankar M.G.	Scientist (Plant Protection)	One Day training on Sericulture Technology	VNMKV, Parbhani	04 th March 2017
Mr. Kalyankar M.G.	Scientist (Plant Protection)	On farm production on Bio-agents and Microbial Bio pesticides	NIPHM, Hyderabad	05 th – 14 th September 2017
Mr. Kalyankar M.G.	Scientist (Plant Protection)	Participated Training on ETA Module of PFMS	KVK Babhaleshwar	25 th – 26 th October 2017

APR SUMMARY

1. Training Programmes

Clientele	No. of	Male	Female	Total
	Courses			participants
Farmers & farm women	72	1867	499	2266
Rural youths	08	172	10	142
Extension functionaries	04	87	17	104
Sponsored Training	01	31	00	31
Vocational Training	04	86	25	111
Total	89	2243	551	2654

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	244	108	04
Pulses	195	90	05
Cereals	10	04	01
Vegetables	57	5.5	02
Other crops	105	36.20	04
Hybrid crops			
Total	611	243.7	16
Livestock & Fisheries			
Other enterprises	100	0.73	03
Total	100	0.73	03
Grand Total	711	244.43	19

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	07	40	40
Livestock	02	10	10
Various enterprises	02	10	10
Total	11	60	60
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	11	60	60

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	291	11707
Other extension activities	169	625
Total	460	12332

5. Mobile Advisory Services

		Type of Messages						
Name of KVK	Message Type	Crop	Livest ock	Weathe r	Mark e-ting	Awar e- ness	Other enterpr ise	Total
	Text only	11	05		07	04		27
KVK	Voice only							
Nanded- 1	Voice & Text both							
	Total Messages							
	Total farmers Benefitted	60532	43680		52107	3522 4		19154 3

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	145.5	1035895
Planting material (No.)	16104	66280
Bio-Products (kg)	535 kg	62500
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	4342	434200
Water	100	5000
Plant		
Total	4442	439200

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	02
2	Conferences	03
3	Meetings	05
4	Trainings for KVK officials	02
5	Visits of KVK officials	04
6	Book published	01
7	Training Manual	01
8	Book chapters	00
9	Research papers	03
10	Lead papers	00
11	Seminar papers	03
12	Extension folder	14
13	Proceedings	08
14	Award & recognition	05
15	Ongoing research projects	03