ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2018-19 (1st April 2018 to 31st March 2019)

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)
MGM KVK, At. Gandheli, Post Aadgaon, Tq. Dist. Aurangabad 431007	Office	FAX	mgmkvk@gmail.com	www.mgmkvk.com
	9404997772	-		-

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

Address	Telepł	ione	E mail	Website address
	Office	FAX		
MGM Trust, MGM Campus, N6, CIDCO, Aurangabad	02406601100	02402484445	mgmadmn@them	-
			gmgroup.com,	

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

Name		Telephone / Contact	
	Office	Mobile	Email
Mr. Sukase K.A.	9404997772	7972914015s sukasekaka@	gmail.com

1.4. Year of sanction: August 2011

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

				If Permanent, Please indicate			If Temporary, pl.
Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	indicate the consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Vacant					
2.	Subject Matter Specialist	Mr. Sukase K.A.	Agronomy	15600-39000-GP5400	21000	16/03/13	Permanent
3.	Subject Matter Specialist	Mr. Chavan T.B.	Plant Protection	15600-39000-GP5400	21000	13/02/13	Permanent
4.	Subject Matter Specialist	Mrs. Deshmukh V. D.	Home Science	15600-39000-GP5400	21000	16/02/13	Permanent
5.	Subject Matter Specialist	Vacant	Horticulture				Permanent
6.	Subject Matter Specialist	Vacant	Animal Science				Permanent
7.	Subject Matter Specialist	Mr. Wagh S.S.	Soil Science	15600-39000	21000	13/02/17	Permanent

8.	Programme Assistant	Mr. Patil D. P.	-	9300 - 34800-GP4200	13500	16/02/13	Permanent
9.	Computer Programmer	Mr. Kadam A.D.	-	9300 - 34800-GP4200	13500	01/04/17	Permanent
10.	Farm Manager	Mr. Bhosle B. R.	-	9300 - 34800-GP4200	13500	14/02/13	Permanent
11.	Accountant/Superintendent	Mr. Kadam V. B	-	9300 - 34800-GP4300	17140	28/02/13	Permanent
12.	Stenographer	Vacant					
13.	Driver 1	Mr. Rajegore S. B.	-	5200-20200-GP2000	7200	23/12/11	Permanent
14.	Driver 2	Vacant					
15.	Supporting staff 1	Mr. Kadam V.B.	-	5200-20200-GP1800	7000	01/03/12	Permanent
16.	Supporting staff 2	Mr. Labade GD.	-	5200-20200-GP1800	7000	18/12/13	Permanent

1.6. Total land with KVK (in ha) :

Sr.	Item	Area (ha)
No.		
1	Under Buildings	0.90
2.	Under Demonstration Units	2.12
3.	Under Crops	8.00
4.	Horticulture	2.00
5.	Pond	0.52
6.	Other (forestry)	5.60
7.	Nursery	0.40
8.	Under Roads	1.60
	Total	21.14

1.7. Infrastructural Development:

A) Buildings

		Source of	1	Stage				
S.	Name of building	funding		Complete		Incomplete		
No.	Ivanie of building		Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	15/06/2013	675	5464095	April 2012	-	Completed
2.	Farmers Hostel	ICAR	-	-	200000		305	
3.	Staff Quarters (6)	-	-	-	-	_	-	-
4.	Demonstration Units (2)	ICAR	2016-17		1434567	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	_	-	-
7	Threshing floor	-	-	-	-	-	-	-

8	Farm godown	_	-	_	-	_	_	_
9	ICT lab							
10	Other							
	ATIC centre	ICAR	2016-17		500010			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	2011	742650	210259	Running
Tractor	2012	75356	5492	Running

C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Digital Camera	2012	25000	Working
LCD Projector	2012	10000	Working
Office Furniture	2012	99562	Good condition
Photocopier with printer and scanner	2012	99850	Working
P.C., HP Laser jet printer	2012	100000	Working
HP laser jet printer	2012	20000	Working
4 GB pen drive			Ŭ

1.8. Details SAC meeting conducted in the year

Date	Name and Designation of Participants	Salient Recommendations	Action taken
14.06.2018	Dr. Lakhan Sing	Prepare success stories and case studies to	Prepared success stories
	Director	display in seminar hall.	
	ATARI, Zone VIII, Pune	Display photographs of activities in seminar	Selected photographs for printing
		hall.	
		While presenting KVM activities give list of	Prepared chart as per suggestion
		programme along with number of	
		participants.	
		Focus on nutrient imbalance in Maize.	Conducted OFT on Soil test based
			nutrient management on Maize.
		Conduct activity for FPO	Conducted CITA Sanwad programme
			and arrange follow up meeting with
			FPO. Regularly quarterly meeting is
			scheduled with FPO.
	Dr. T.S. Mote, DSAO and Mr.	Increase income generation from nursery.	Seedling of Mango, Sweet orange,
	A.B. Avhale PD ATMA,		Kagzi lime is prepared on large scale

Aurangabad	Submit proposal for stationary soil testing	Project proposal submitted to
	laboratory	Commissioner of Agriculture, Pune
Dr. P.G. Ingole, DEE VNMKV,	Promote use of transplanter	Conducted demonstration on farmer's
Parbhani		field.
	Compile the monthly messages	Compiled monthly messages
	Promote the use of PGR in cotton	Due to drought condition there is no
		excess vegetative growth in Cotton.
	Give economics of OFT on Serimore	Worked out economics of use of
		Serimore.
Hon. Vijayanna Borade	Introduce concept of community kitchen	
Trusty, MGM, Aurangabad	garden in villages.	
	Conduct training of youth on scouting of	Conducted training of youth on scouting
	Insect pest for control of Pink bollworm	of Insect pest for control of Pink
		bollworm
Dr. S.B. Pawar,	Prepare buffer of different IFS model	
ADR, NARP, Aurangabad	Conduct demo on Oil expeller and value	
	Conduct demonstration on shed net activity.	Demonstrated cultivation of Tomato,
		Cucumber and Capsicum in shed net.
Sau. Sunita Nage, Farm women	Tree plantation at Vaispur in the premises of	Arranged meeting of Villagers and
representative	Hanuman Temple	prepared layout but due to drought
		condition tree plantation postponed
	Conduct awareness programme control of	Conducted awareness programme
	Pink bollworm	control of Pink bollworm management
		at Vaispur
Shri Vasantrao Khare, Farmers	Prepare literature on use of herbicides	Prepared folder
representative	Introduce oilseed crops in operational area.	We have tried to introduce Soybean but
		due to problem of Deer and Boar
		farmers are not ready to cultivate
		Soybean. Due to drought condition
		farmers could not sow oil seed crops in
		rabi season.

2. DETAILS OF DISTRICT

S. No Farming system/enterprise	
¹ Cotton: Cotton grown on light to heavy soil under rainfed situation	
² Maize: Grown on medium to heavy soil under rainfed situation.	
³ Red gram : Grown on light to heavy soil under rainfed situation	
⁴ PearImillet: Bajara under rainfed situation	
⁵ Wheat : Grown on medium to heavy soil under irrigated situation	
⁶ Rabi Sorghum : Grown on medium soil under rainfed situation	
7 Sugarcane : Grown on light to heavy soil under irrigated situation	
8 Sweet orange : Sweet orange grown on medium soil under irrigated situation	
9 Pomegranate: Grown on light to medium soil under irrigated situation	

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

u) L	on type		
SI. 1	No.	Agro-climatic Zone	Characteristics
	1.	Western Maharashtra dry zone	Rainfall ranges from 700-900 mm. Soils are medium black calcareous.
	2.	Central Maharashtra plateau zone	Low rainfall, medium to heavy soils non CADA area

b)Topography

S. No.	Agro ecological situation	Characteristics
1.	Scarcity zone	Low rainfall light to medium soils.
2.	Central Maharashtra plateau zone-1	Low rainfall, medium to heavy soils non CADA area.
3.	CMP-II	Assured rainfall medium to heavy soils.
4.	CMP-III	Assured rainfall medium to heavy soils.
5.	CMP-IV	Command area heavy soils.

2.3 Soil Types

2.3	Soil Typ	es		
	S. No	Soil type	Characteristics	Area in ha
S . 1	No	Soil type	Characteristics	Area in ha
	1.	Shallow soils	Depth 22.5 cm particle size 0.02 mm Net drained soils low water	46.0 %
			holding capacity	
	2.	Medium black soils	Depth 22.5 to 45 cm. Medium water holding capacity particle size	19.0 %
			0.002 mm	

3	Deep black soils	Depth 60-90 cm high swelling & shrinkage property poor drainage.	35.0 %
		High water holding capacity. Particle size 0.002 mm.	

2.4. Area, Production and Productivity of major crops cultivated in the district (2018-19)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Cotton	5065	9923	3.33
2	Maize	493	1720	34.92
3	Pigeonpea	607.25	714.69	11.77
4	Pearl millet	520	579	11.14
5	Greengram	6969	52.84	758
6	Black gram	15.27	10.11	6.62
7	Soybean	293	311	10.63
8	Rabi sorghum	1469	13.01	8.85
9	Wheat	645	1354	21.01
10	Bengal gram	664	732	11.02
11	Linseed	0.02	0.002	1.02
12	Sugarcane	146.44	87.31	60

Source: District agriculture department/Authentic Source

2.5. Weather data (2018-19)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
Month		Maximum	Minimum	Maximum	Minimum
Month	Rainfall (mm)	Temperature 0 C	Relative Humidity (%)		
		Maximum	Minimum	Maximum	Minimum
January	0.0	29.7	14.2		
February	0.2	32.5	16.3		
March	0.1	36.1	20.2		
April	0.9	39.0	23.7		
May	0.0	39.9	24.6		
June	101.5	34.9	23.0		
July	73.0	30.3	21.8		
August	160.2	29.1	21.1		
September	17.3	30.4	20.9		
October	0.3	32.6	19.7		
November	5.4	30.9	16.4		
December	0.0	29.3	14.0		
Total	358.9				

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

Category	Population	Production	Productivity
Cattle			
Crossbred	48621	18586 Lit/day	7 Lit/Cow/day
Indigenous	479915	83251 Lit/day	1.5Lit/Cow/day
Buffalo	98849		

Sheep					
Goats	354309		0.5 Lit/goat/day		
Pigs					
Crossbred					
Indigenous					
Rabbits					
Poultry					
Hens					
Desi					
Category		Production (Q.)	Productivity		
Fish (Reservoir)					

2.7. Details of Operational area / Villages 2.7. Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Khultabad	Khultabad	Palaswadi, Thakarwadi	Ginger, Maize, Cotton, Red gram, Vegetables crops	 Cotton: 1) Imbalance fertilizer application 2) Low plant population 3) Infestation of sucking pest and disease 4) Reddening of cotton Red gram: 1. Imbalanced use of fertilizer 2. Lack of knowledge about new high yielding verities 3. negligence in pest management Maize: 1.Lack of knowledge of soil test based nutrient management 2. Not following crop rotation Wheat: Imbalance use of fertilizers Rabi Bengalgram: Infestation of disease i.e. wilt Onion: Thrips 	Cotton: INM, Maintenance of plant population, IPM Redgram: INM, Varietal evaluation, IPM Maize: Soil test based NPK management Wheat: Soil test based NPK management, Varietal evaluation. Bengal gram: IPDM Onion: Seed Production

Paithan	Paithan	Sahtramuli, Bhindon	Cotton, Red gram, Maize, Wheat, Bengal gram and Vegetables crops	 Cotton: 1) Imbalance fertilizer application 2) Low plant population 3) Infestation of sucking pest and disease 4) Reddening of cotton Red gram: 1. Imbalanced use of fertilizer 2. Lack of knowledge about new high yielding verities 3. negligence in pest management Maize: 1.Lack of knowledge of soil test based nutrient management 2. Not following crop rotation Wheat: Imbalance use of fertilizers Rabi Bengalgram: Infestation of disease i.e. 	Cotton: INM, Maintenance of plant population, IPM Redgram: INM, Varietal evaluation, IPM Maize: Soil test based NPK management Wheat: Soil test based NPK management, Varietal evaluation. Bengal gram: IPDM
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2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Cotton	INM, Maintenance of plant population, IPM
Redgram	INM, Varietal evaluation, IPM
Maize	Soil test based NPK management
Wheat	Soil test based NPK management, Varietal evaluation
Rabi Sorghum	Varietal evaluation
Bengalgram	INM, IPDM
Sugarcane	Organic matter decomposition, IPDM
Onion	Seed Production, IPDM
Ginger	IPDM
Sweet Orange	IPDM
Pomegranate	Bahar Management, Nutrient Management, IPDM

Live Stock enterprise	Increase in area under fodder crop and productivity of livestock. Feed cost reduction through exploiting nutrient efficient local resources. Self-employment generation through income generating activity. To increase productivity and to reduce metabolic diseases through proper feeding and balanced diet. Corrective measures for various common ailments in livestock.
	Better profitability through market driven production.
Health & Nutrition	To improve the knowledge of farm women regarding balanced nutrition
Drudgery & time consuming activity	To demonstrate drudgery reducing technologies for farm and home activities.
Marketing problem of SHG products	To impart improved agricultural technologies to women.
Economic empowerment	To provide Trainings on agri-based entrepreneurship
Health & Nutrition	To improve the knowledge of farm women regarding balanced nutrition

3. TECHNICAL ACHIEVEMENTS

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

	O	FT		FLD					
	1	1		2					
Nur	nber of OFTs	Num	ber of farmers	Nu	mber of FLDs	Number of farmers			
Targets	Achievement	Targets	Achievement	Targets	l'argets Achievement		Achievement		
09	09	90	90	11	09	118	98		

	Trai	ning		Extension Programmes					
		3		4					
Num	ber of Courses	Numbe	er of Participants	Numbe	r of Programmes	Number of participants			
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
54	57	1080 1166		70 89		3200	6113		

Seed	l Production (Qtl.)	Planting mat	Planting materials (Nos.)				
	5		5				
Target	Achievement	Target	Achievement				
-	-	_	86500				

Livestock, poultry strai	ns and fingerlings (No.)	Bio-products (Kg)					
	7		3				
Target	Achievement	Target	Achievement				
-	-	-	-				

3.1. B. Operational areas details during 2018-19

S.	Major	Prioritized problems in these crops/	Extent of area (Ha/No.) affected by the problem in the	Names of Cluster	Intervention (OFT, FLD, Training,
Ν	crops &	enterprise	district	Villages identified for	extension activity etc.)*
0.	enterprises			intervention	
	being				
	practiced in				
	cluster				
	villages				
1	Maize	Labor problem for weeding. Crop weed	90000	Palaswadi	OFT & Training
-	1111110	competition reduce yield			
		I J			
2	Sorghum	Low productivity of non descript &	20000	Bhindon and	OFT & Training
	-	local varieties Dagdi		Thakarwadi	
		č			
2	Cotton	Low vield & adaguate browladge	210000	Delegwedi end	OFT & Training
5	COLION	Low yield & adequate knowledge	510000	Rhindon	OF T & Training
		of nutrient application		Difficon	
4	Maiza	Zn and Fe deficiency and imbalance	140000	Palaswadi and	OFT & Training
4	Waize	putrient application	140000	Bhindon	OF T & Training
5	Cotton	Infestation of Pink bollworm	350000	Palaswadi and	FLD & Training
-				Bhindon	
6	Sericulture	Low yield	100	Pimpalgaon	OFT,FLD & Training
7	Drudgery	Perceived health hazard of farm women	-	Palaswadi	OFT & Training
	Reduction	in fertilizer application activity			
8	Post	Intestation of grains and pulses in	-	Palaswadi	OFT & Training
	harvest	storage techniques			
	technology				
0	Drudgory	Commonly observed health problems		Dorgoon	OFT Training and Demonstration
7	Peduction	like backache, pain in neck & joints	-	rorgaon	or i, framing and Demonstration
	Reduction	and fingers etc. while planting			
		seedlings			

* Support with problem-cause and interventions diagram

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3.2. Technology Assessment

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	01	-	-	01	-	-	-	-	-	02
Integrated Putrient Wanagement										
Varietal Evaluation	01	-	-		-	-	-	-	-	01
Integrated Pest Management	-	-	-	01	-	-	-	-	-	01
Weed Management	01	-	-		-	-	-	-	-	01
Integrated Farming System	-	-	-	01	-	-	-	-	-	01
Drudgery Reduction	-	-	-	01	-	-	-	-	-	02
Storage Technique	01	-	-		-	-	-	-	-	01
Total	04	-	-	05	-	-	-	-	-	09

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Late enote d Nutrient Meno coment	Cotton	To assess the Yield of Cotton by Soil Test Based Nutrient Management with protective irrigation	12	12	4.80
Integrated Nutrient Management	Maize	To assess the Yield of Maize through Soil Test Based Application of Nutrients	10	10	4.0
Varietal Evaluation	Sorghum	Varietal evaluation in Rabi Sorghum	16	16	6.4
Integrated Pest Management	Cotton	OFT on mass trapping of pink boll worm.	12	12	4.80
Weed Management	Cotton	To assess the performance of Tembotrine 34.4 % SC for control of broadleaf and grassy weeds in Maize	08	08	3.20
Integrated Farming System	Mulberry	Effect of growth hormone (Seri more) on cocoon yield and quality	12	12	4.80
Drudgery Reduction	Maize	Assessment of Fertilizer carrying bag (Sulbha bag) to apply fertilizer	10	10	-
	Vegetable	Assessment of sapling trans-planter and sapling carrier	10	10	-
Storage Technique	Cereals	Introduction of Super Grain Bags to prevent store grain pests during storage	10	10	-
Total			90	90	23.20

B.2. Technologies assessed under Livestock and other enterprises

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

C1.Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cotton	Rain fed	1) Labor problem for weeding 2) Crop weed competition reduce yield	To asses the performance of Tembotrin 34.4 % SC for control of broadleaf and grassy weeds in Maize	08	Post emergence herbicide	Labour cost for weeding Yield (q/ha)	3750 45.5	Post emergengence herbucide is effective for control of grassy and broad leaf weeds in Maize but it require sufficient moisture in the soil	Use of herbicide can save 1 weeding	-	-
	Rain fed	 Low yield Imbalanced nutrient supply Zn deficiency Boron deficiency 	To assess the Yield of Cotton by Soil Test Based Nutrient Management with protective irrigation	12	Nutrient Management	Yield B:C Ratio	10.6	With the help soil testing farmers save fertilizers cost of Rs. 990/- and increase yield 8.05 % cost of Rs. 5688. Total additional income of farmers is Rs. 6678/-	cost effective	-	
Sorghum	Rain fed	Low productivity of non descript & local varieties	Varietal evaluation in Rabi Sorghum	16	Varietal evaluation	Yield B:C Ratio	Parbhani Moti-4.97q/ha PKV Kranti- 4.9	Due to shortage of moisture in later stages of crop growth yield is less but improved varieties given more yield as compare to local verities	Parbhani Moti fetches more price in the market due to bold and shiny grains	-	-
Maize	Rain fed	 Zn deficiency symptoms Fe deficiency symptoms Imbalance nutrient application 	To assess the Yield of Maize through Soil Test Based Application of Nutrients	10	Nutrient Management	Yield B:C Ratio	60	With the help soil testing farmers save fertilizers cost of Rs. 684 and increase yield 8.58 % cost of Rs. 4800. Total additional income of farmers is Rs. 5484	cost effective	-	-
Cotton	Irrigated	40 to70% loss in yield in cotton due to PBW	OFT on mass trapping of pink boll worm.	12	Pheromone trap @ 40/ha	Pest incidence in percent (%)	T1- 14 T2- 06	Use of Pheromone traps for mass trapping found effective.	Eco-friendly method of pest management and conserves natural enemies of	-	-

									neete		
Mulhorry	Irrigated	Poor Quality & Low	Effect of growth hormone (Seri	12	Use of	Increased		Use of growth	Use of growth		
Wurberry	Inigateu	Fool Quanty & Low	Effect of growth normone (Seri	12		Thereased	T1 0				
		Cocoon Yield	more) on cocoon yield and		normone (Seri	cocoon rield	11-0	normone (Serimore)	normone		
			quality		more) 2	(%)		sowed uniform	(Serimore)		
					ampules/100		T2- 19	maturity of cocoons	responsible for		
					DFLs			and increase in yield.	uniform	-	-
									maturity of		
									cocoons and		
									also helps in		
									easy harvesting		
Drudgory		Denosity ad bastth	Assagement of Fortilizar	10	Fortilizor	Application of	7 ltg in domo	Dama tashnalagu is	Tagtad		
Drudgery	-		Assessment of Fertilizer	10	Fertilizer	Application of		Denio technology is	Testeu	-	-
reducing		hazard of farm women	carrying bag (Sulbha bag) to		carrying bag	tertilizer	and 5.5 kg in	reduces drudgery by	technology is		
technology		in fertilizer application	apply fertilizer		(Sulbha bag)	(Kg/hr)	check	21.42 % than check	effective than		
		activity.							the traditional		
									method. It		
									saves time &		
									increase the		
									output and		
									reduce overall		
									discomfort		
									uisconnoit		
									with the help		
						~			of belt.		
						Capacity of bag	7 Kg in demo	Demo technology is		-	-
						(kg)	and 6.5 kg in	carry more quantity			
							check	i.e. 7.14% of fertilizer			
								than check			
						Physical work	3 point	_		-	-
						load (Five point	observed in				
						scale)	demo and 4 in				
						seure)	check				
						Overall	2 point				
						discomfort	observed in	_			
						(Eine maint	Jame and 2 in				
						(Five point	demo and 3 in				
-		~		1.0		scale)	check				
Drudgery	-	Conventional	Assessment of sapling trans-	10	sapling trans-	1.Time required	By using this	Demo technology is	Tested	-	-
reducing		transplanting was	planter and sapling carrier		planter and	for transplanter	transplanter	save 8.76% seedlings	technology is		
technology		manual sapling			sapling carrier		680	more than check. Also	very effective.		
		transplantation which					seedling/hr	reduce time of	It saves time &		
		is performed					Can be	seedling plantation.	increase the		
		continuously by hand					transplant and	<i>C</i> x	output.		
		in bending posture					by traditional		· · · · r · · · ·		
		Postural discomfort					method 270				
		hoat strass repetitive					soodling/br				
		atacia ting logi					Seeuning/IIF	1			
		strain, time load					Can be	1			
							transplant	1			
						2.Servival %		1			
							Survival % of	1			
							transplanter is	1			
							96.91% and	1			
							traditional	1			
							method is	1			
							88 15%				
Post horvost		1 Pest infastation	Introduction of Super Crain	10	Super Crain	1 % of Post	% of Doct	Demo technology is	They said that		
technology	-	damages in stored	Bags to prevent store grain posts	10	Bage	infectation in	infectation in	21% more effective	it is very		
teennology		uamages in stored	Dags to prevent store grant pests		Dags	miestation III	intestation III	21 % more enective	ILIS VELY		

grains in wheat, gram.	during storage	grains	grains by	than check	useful, time	
2.Fungal infestation	ũ ũ	U	using demo		saving and	
due to fluctuation in			method is 3%		minimizes loss	
atmospheric moisture			and by using		of infestation	
with change in climate		2. Increase in	traditional		also save	
3. Reduce storage life		shelf life of	method is		labour of	
of grains		grain storage	24%		cleaning	
			Increase in		grains.	
			shelf life of			
			grain storage			
			by using demo			
			method is			
			97% and by			
			using			
			traditional			
			method is			
			76%			

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
T1- Two weeding and one hoeing		37.5	Q/ha	14450	1:1.37
T2 - Use of timbotorin @ 286 ml/ha	VNMKV, Parbhani	45.5	Q/ha	23200	1:63
T1- Local variety		3.5	Q/ha	4500	1:1.47
T2- Parbhani Moti	VNMKV, Parbhani	4.97	Q/ha	10180	1:2.04
T3- PKV Kranti	PDKV, Akola	4.9	Q/ha	9900	1:2.02
T1- Application of fertilizers without soil testing and No use of micronutrient (Urea 4 bag + 10:26:26 8 bags)		9.25	Q/ha	15810	1:1.41
T2- 150:75:75 kg NPK + 25 Kg Zinc sulphate + 0.1 % Borax spray at 65 & 80 DAS (Soil test based)	VNMKV, Parbhani	10.06	Q/ha	21498	1:1.58
T1 - Application of fertilizers without soil test based and no use of micronutrient		44	Q/ha	15610	1:1.41
T2- Application of ZnSO4 & FeSO4 with RDF Soil test based	MPKV, Rahuri	48.13	Q/ha	21094	1:1.57
T1- Spraying of insecticide (Farmers Practice) T2- IPM + Installation of Pheromone traps @ 40/ ha	Cotton Res. Station Junagadh, Gujarat	T1- 8.75 T2- 12.5	q/ha	T1- 37875 T2- 58115	T1-1: 4.1 T2- 1:5.4
T1- Farmer's Practice Natural Cocoon formation	Central Silk Research and Training Institute, Mysore	T1- 0.65		T1- 14500	T1-1: 3.9
T2- Spray of Sampurna @ 10ml Ampul/50 DFL	-	T2- 0.79	q/100DFLS	T2- 18400	T2- 1:4.4
T1: Conventional method T2: Use of Sapling transplanter	VNMKV, Parbhani	-	-	-	-
T1: Use of Gunny bags (Jute bag) T2: Use of Super grain bags	PCI, Mumbai	-	-	-	-
T1 - Traditional method of application of Fertilizer T2 – Use of Sulbha bag	VNMKV, Parbhani	-	-	-	-

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

A	Title of Technology Assessed	:	To asses the performance of Tembotrine 34.4 % SC for control of broadleaf and grassy weeds in Maize					
В	Problem Definition	:	 Labour problem for weeding Crop weed competition reduce yield 					
С	Details of technologies selected for assessment		T1- Two weeding an T2- Use of timbotori	d one hoeing ne @ 286 m	g 1/ha			
D	Source of technology	:	VNMKV, Parbhani	VNMKV, Parbhani				
Е	Production system and thematic area		Weed Management					
F	Performance of the Technology with performance indicators		Farmers Practice	No. of trial	Yield (Q/ha) 37.5	Net return (Rs./ha) 14450	B:C ratio	
			Demo	08	45.5	23200	1.63	
G	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		Post emergence herbicide is effective for control of grassy and broad leaf weeds in Maize but it require sufficient moisture in the soil					
Н	Final recommendation for micro level situation		This is 1 st year of this trial.					
Ι	Constraints identified and feedback for research		-					
J	Process of farmers participation and their reaction		Group discussion, Tr This herbicide contro	mely applica l weeds in N	ation of inpu Iaize which :	t given. save one weed	ing	

	Title of Technology Assessed	:	Varietal evaluation in	n Rabi Jowar					
	Problem Definition	:	Low productivity of	Low productivity of non descript 7& local varities.					
	Details of technologies selected for assessment		T1- Local and non descript vaietyT2- Parbhani MotiT3 - PKV kranti						
D	Source of technology	:	VNMKV, Parbhani						
Е	Production system and thematic area		Varietal evaluation						
	Performance of the Technology with performance indicators		Farmers Practice Parbhani Moti PKV kranti	No. of trial 16 08 08	Yield (Q/ha) 3.5 4.97 4.9	Net return (Rs./ha) 4500 10180 9900	B:C ratio 1.47 2.04 2.02		
	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		Due to shortage of m but improved varietie	oisture in lat es given more	er stages of e yield as co	crop growth yi mpare to local	eld is less verities		
G	Final recommendation for micro level situation		This is 2 nd year of tria	al					
Н	Constraints identified and feedback for research								
Ι	Process of farmers participation and their reaction		Group discussion, T This technology is ac	imely applica ceptable .	ation of inpu	t given.			

OF	т٠	3
U	T •	J

Α	Title of Technology Assessed	:	To assess the Yield of Cotton by Soil Test Based Nutrient Management with protective irrigation					
В	Problem Definition	:	1. Low yield2. Imbalanced nutrient supply3. Zn deficiency4. Boron deficiency					
С	Details of technologies selected for assessment		T1- Application of fertilizers without soil testing and No use of micronutrient (Urea 4 bag + 10:26:26 8 bags) T2- 150:75:75 kg NPK + 25 Kg Zinc sulphate + 0.1 % Borax spray at 65 & 80 DAS (Soil test based)					
D	Source of technology	:	VNMKV, Parbhani					
Е	Production system and thematic area		Nutrient Management					
F	Performance of the Technology with performance indicators		Farmers Practice Demo	No. of trial 12 12	Yield (Q/ha) 9.25 10.06	Net return (Rs./ha) 15810 21498	B:C ratio 1:1.41 1:1.69	
G	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		With the help soil test increase yield 8.05 % farmers is Rs. 6678/-	ing farmers cost of Rs. 5	save fertilizo 5688. Total a	ers cost of Rs. additional inco	990/- and me of	
Η	Final recommendation for micro level situation		-					
Ι	Constraints identified and feedback for research		-					
J	Process of farmers participation and their reaction		Group discussion, Ti This technology is ac	mely applica ceptable	tion of inpu	t given.		

A	Title of Technology Assessed	:	To assess the Yield of Maize through Soil Test Based Application o Nutrients					on of
В	Problem Definition	:	 I. Zn deficiency symptoms Fe deficiency symptoms Imbalance nutrient application 					
С	Details of technologies selected for assessment		T1 : Application of fertilizers without soil test based and no use of micronutrientT2: Application of ZnSO4 & FeSO4 with RDF Soil test based					
D	Source of technology	:	MPKV,Rahuri					
Е	Production system and thematic area		Nutrient Management					
F	Performance of the Technology with performance indicators		Farmers Practice	No. of trial	Yield (Q/ha)	Net return (Rs./ha)	B:C ratio	
			Demo	10 10	48.13	21094	1:1.57	
G	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		With the help soil test increase yield 8.58 % is Rs. 5484	ing farmers a cost of Rs.	save fertiliz 4800. Total	ers cost of Rs. additional inco	684 and ome of farm	iers
F	Process of farmers participation and their reaction		This technique is cost	effective an	d helpful fo	r soil health		
Η	Final recommendation for micro level situation		-					
Ι	Constraints identified and feedback for research							
J	Process of farmers participation and their reaction		Group discussion, Ti This technology is acc	mely applica ceptable .	tion of inpu	t given.		

	Title of Technology Assessed	:	Mass trapping of pink boll	worm.			
	Problem Definition	:	40 to70% loss in yield in cotton due to PBW				
	Details of technologies selected for assessment		Installation of Pheromone traps @ 40 per ha				
D	Source of technology	:	Cotton Res. Station Junagadh, Gujarat				
E	Production system and thematic area			Irrigated and IPM.			
	Performance of the Technology with performance indicators		Treatments	Yield(q/ha)	Pest incidence(%)		
			11-	8.75	14		
			T ₂ .	12.5	6		
	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		Eco-friendly method of penemies of pests.	pest management and	conserves natural		
G	Final recommendation for micro level situation			-			
Н	Constraints identified and feedback for research			-			
Ι	Process of farmers participation and their reaction		This technology adopt implemented on large	ed by the number of area.	farmers and		

19

А	Title of Technology Assessed	:	Effect of growth hormone (Seri more) on cocoon yield and quality.					
	Problem Definition	:	Poor Quality & Low Cocoon Yield.					
	Details of technologies selected for assessment		Spray of Sampurna @ 10r	Spray of Sampurna @ 10ml Ampul/50 DFL				
D	Source of technology	:	Central Silk Research and Training Institute, Mysore.					
Е	Production system and thematic area		Irrigate and Use of growth harmone.					
	Performance of the Technology with performance indicators		Treatments	Yield(q/ha)	Increase in cocoon yield (%)			
			T ₁	0.65	0			
			T ₂ .	0.79	19			
	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		Use of growth hormone (S cocoons and also helps in	Serimore) responsible for u easy harvesting .	iniform maturity of			
G	Final recommendation for micro level situation			-				
Н	Constraints identified and feedback for research		-					
Ι	Process of farmers participation and their reaction		Farmers are using gr cocoons.	owth hormone for un	iform maturity of			

	Title of Technology Assessed	:	Assessment of sapling trans-planter and sapling carrier			
	Problem Definition	:	Conventional transplanting was manual sapling transplantation which is performed continuously by hand in bending posture. Postural discomfort, heat stress, repetitive strain, time load			
	Details of technologies selected for assessment		Use of sapling trans-planter and sapling carrier			
D	Source of technology	:	VNMKV, Parbhani			
Е	Production system and thematic area		Drudgery reducing technology			
	Performance of the Technology with		Name of observations	Demonstration	Check	
	performance indicators		1. Time required for transplanter	680 seedling/hr	270 seedling/hr	
			2.Servival %	96.91	88.15	
	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		Time and labor saving technology			
G	Final recommendation for micro level situation		-			
Н	Constraints identified and feedback for research		It should be use for making hole to mulching paper			
Ι	Process of farmers participation and their reaction		Farmers and farm women accepted technology.	d this technology a	nd ready to use this	

А	Title of Technology Assessed	:	Introduction of Super Grain Bags to preve storage	ent store grain pes	ts during	
	Problem Definition	:	 Pest infestation damages in stored grains in wheat, gram. Fungal infestation due to fluctuation in atmospheric moisture with change in climate Reduce storage life of grains 			
	Details of technologies selected for assessment		Use of Super Grain Bags			
D	Source of technology	:	PCI, Pune			
Е	Production system and thematic area		Preventing Store grain pest			
	Performance of the Technology with		Name of observations	Demonstration	Check	
	performance indicators		1.% of Pest infestation in grains	3	24	
			2. Increase in shelf life of grain storage	97%	76%	
	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques		Farm women accepted this technology. Th time saving and minimizes loss of infestati cleaning grains.	ey said that it is ve on also save labou	ery useful, r of	
G	Final recommendation for micro level situation		-			
Н	Constraints identified and feedback for research		-			
Ι	Process of farmers participation and their reaction		Farm women participated in OFT and acce	pted this technolog	gy.	

OFT	:	9
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А	Title of Technology Assessed	:	Assessment of Fertilizer carryin	g bag (Sulbha ba	g)	
	Problem Definition	:	Perceived health hazard of farm activity.	women in fertiliz	zer applic	ation
	Details of technologies selected for assessment	:	Fertilizer carrying bag (Sulbha b	bag)		
D	Source of technology	:	VNMKV, Parbhani			
Е	Production system and thematic area	:	Drudgery reducing technology			
	Performance of the Technology with performance indicators	:	Name of observations	Demonstration	Check	% difference
			Application of fertilizer (Kg/hr)	7	5.5	21.42
			Capacity of bag (kg)	7	6.5	7.14
			Physical work load (Five point scale)	3	4	-
			Overall discomfort (Five point scale)	2	3	-
	Feedback, matrix scoring of various	:	Tested technology is effective th	nan the traditiona	l method	. It saves
	technology parameters done through		time & increase the output.			
	farmer's participation / other scoring					
	techniques					
G	Final recommendation for micro level	:	-			
	situation					
Η	Constraints identified and feedback for	:	-			
	research					
Ι	Process of farmers participation and their reaction	:	This technology is accepted by t	the farmers.		

3.3. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2018-19 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizonta	l spread of technol	ogy
					No. of	No. of	Area in
					villages	farmers	ha
1.	Red gram	Varietal	Short duration variety	Group discussion, Field day	05	75	30
		evolution	BDN-711				

B. Details of FLDs implemented during 2018-19 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area	. (ha)]	No. of farmers, demonstrations	2	Reasons for shortfall in achievement
					Proposed Actual		SC/ST	Others	Total	
1.	Pigeonpea	IPDM	IPM	Kharif 2018-19	4.8	4.8		12	12	
2.	Greengram	Cropping system	Cotton + Greengram intercropping	Kharif 2018-19	4.8	4.8		12	12	
3.	Wheat	Nutrient Managemen t	Use Zinc sulphate (St based)	Rabbi-2018-19	10	4.0		10	10	
4.	Onion	Nutrient Managemen t	Use Sulpher (St based)	Rabbi-2018-19	10	4.0		10	10	
5.	Onion	IFS	Seed production	Rabbi-2018-19	12	4.8		12	12	
6	Tomato	INM StT based application of fertilizer, sedd treatment with bio fertilizer		Rabbi-2018-19	10	4.0		10	10	Due to drought situation

Details of farming situation

Сгор	eason	ming situation RF/Irrigated)	oil type	Sta	atus of soi	1	ious crop	ving date	vest date	nal rainfall (mm)	rainy days
	S	Farmii (RF/	Ň	N	Р	K	Prev	Sov	Har	Seaso	No. of
Pigeonpea	Kharif 2018- 19	Rainfed	Mediu m to heavy	Low to medium	Lo w	Very high	Cotton, Bengal gram	Last week of June	Last week of December	358. 9	
Greengram	Kharif 2018- 19	Rainfed	Mediu m to heavy	Low to medium	Lo w	Very high	Cotton, Bengal gram	Last week of June	1 st fortnight of September	358. 9	
Wheat	Rabbi - 2018- 19	Irrigated	Mediu m to heavy	Low to medium	Lo w	Very high	Maize	1 st fortnight of November	Last week of February	358. 9	
Onion	Rabbi - 2018- 19	Irrigated	Mediu m to heavy	Low to medium	Lo w	Very high	Maize	Last week of January	Last week of March	358. 9	
Onion	Rabbi - 2018- 19	Irrigated	Mediu m to heavy	Low to medium	Lo w	Very high	Maize	1 st fortnight of January	Last week of	358. 9	
Tomato	Rabbi - 2018- 19	Irrigated	Mediu m to heavy	Low to medium	Lo w	Very high	Maize			358. 9	

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Pheromens traps helps for pest monitoring
2	Due to intercropping helps for utilization of row to row space in long duration crop.
3.	Soil testing help for detection of deficiency of major & micronutrients
4.	Soil testing help for detection of deficiency of major, micro and secondary nutrients
5.	Use of flowering crops in seed production of onion helps to attract honey bee

Farmers' reactions on specific technologies

S. No	Feed Back
1	Use of Pheromens traps helps for identification of attack of insect.
2	Due to intercropping farmers get additional income
3.	With the help of soil testing save fertilizer
4	With the help of soil testing save fertilizer and get more yield
5	Due to increase of population of honey bees increase the seed setting observed in Onion seed production.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days				
2	Farmers Training				
3	Media coverage				
4	Training for extension functionaries				

C. Performance of Frontline Demonstrations

Frontline demonstrations on Oilseed crops

					Area		Yield	d (q/ha)				Econo	nics of de	monstration (Rs./ha)		E	conomics of (Rs./ha)	heck
Сгор	Thematic Area	technology demonstrated	Variety	No. of Farmers	(ha)	High	Demo) Average	Check	% Inci	ease in yield	l Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Groundnut	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-

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

Frontline Demonstration on Pulse crops

	Thematic			No. of	Area		Yie	ld (q/ha)		% Increase in	Eco	nomics of (Rs	demonstra ./ha)	tion]	Economic (Rs	s of check ./ha)	
Crop	Area	Technology demonstrated	Variety	Farmers	(ha)		Dem	0	Chash	yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Average	Спеск		Cost	Return	Return	(R /C)	Cost	Return	Return	(R /C)
Pigeonpea	IPDM	IPM	Richa	12	4.8	10.5	7	8.75	6.25	40	11242	43750	32508	1:3.89	10000	31250	21250	l:3.12
Greengram	Cropping	Cotton + Greengram	Bt cotton + Utkarsh varity	12	4.8	9.34	6.64	7.21	6.07	18.78	32250	39655	7405	1.22	31000	33385	2385	1.07
	Systems	intercropping	of Green gram															

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

FLD on Other crops

Category &	Thematic	Name of the	No. of	Area		Yield (q/ha)			% Change	Ot Parai	her neters	Econ	omics of d (Rs./	lemonstra ha)	tion	Econ	omics of	check (Rs	./ha)
Сгор	Area	technology	Farmers	(ha)	High	Demo Low) Average	Check	in Tielu	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals																			
Wheat	INM	Use Zinc sulphate (ST Based)	10	4.0	25.9	22.7	24.3	21.8	11.47			17564	52140	34576	2.96	18018	47960	29942	2.66
Onion	INM	Use Sulphur (ST based)	10	4.0	139.3	131.5	135.4	127	6.61	-	-	41575	108320	66745	1:2.6	41810	87500	45690	1:2.09
Onion	IFS	Seed production	12	4.8	15	12.5	13.75	8.75	57.14	89	69	30000	57750	27750	1:1.92	27000	36750	9750	1:1.36

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

FLD on Livestock

Category	Thematic	Name of the technology	No. of	No.of Units (Animal/ Poultry/ Birds,	Ma	Major		Other		Econ	omics of	lemonstra	ition	Ec	onomics	of che	ck
	area	demonstrated	Farmer	etc)		parameters		parameter			(R	s.)		(Rs.)			
					Demo	Check	in major	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
							parameter			Cost	Return	Return	(R /C)	Cost	Return	Return	(R / C)
Cattle	-		-	-	-	-		-	-						-	-	-
1				<u>.</u>													à

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

FLD on Fisheries

Catagory	Thematic	Name of the technology demonstrated	No. of	No.of	Major pa	arameters	% change	Other pa	rameter	Econ	omics of der	nonstration	(Rs.)		Economic (R	s of check s.)	
Category	area		Farmer	units	Demons Ration	Check	parameter	Demons ration	Chec k	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps	-		-	-	-	-		-	-						-	-	-

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

FLD on Other Enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major pai	rameters	% change in major	Other p	arameter	Econor	nics of demo Rs./1	onstration (] mit	Rs.) or		Economics (Rs.) or	of check Rs./unit	
				Demo	Check	parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Sericulture	Cocoon harvester	12	4.8	0.8	0.2	300	02	08	300	24000	23700	1:80	1200	24000	22800	1:20

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Post Harvest Management	Gravity separator	10	Capacity (Kg/hr)	80	19
			Cleaning efficiency - %	7.81	4.7
			Labour requirement – man-hr/qt	2/day	8/day
			Operational cost – Rs./qt	40(for 80 kg)	38(for 19 kg)
Health & Nutrition	Kitchen garden	10	Consumption of vegetable in a month – gram	3750	5000
			Days of consumption of vegetable in a month –	15	20
			Days		
			Monthly expenditure on purchase of vegetables	895	155
			in a month		
Post Harvest Management	Solar dryer	10	Time required for drying		
			Fenugreek leaves	5.3	8
			Spinach	6	7.3
			Coriander leaves	5.3	7
			Drumstick leaves	5.3	7.45
			Onion	9.2	12.3
			Tomato	10	16

FLD on Farm Implements and Machinery

Name of the implement	Сгор	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed obse (output/ma	rvation in hour)	% change in major	Labo	r reduction	i (man days))	(Rs	Cost redu ha or Rs./	uction /Unit etc.)	
						Demo	Check	parameter	Land preparation	Sowing	Weeding	Total	Land preparatio n	Labour	Irrigati on	Total
-		-	-	-	-		-	-						-	-	-

FLD on Other Enterprise: Kitchen Gardening

Category and	Thematic	Name of the	No. of	No. of	Yield	(Kg)	%	Other J	arameters	Eco	nomics of d	lemonstrati	on		Econon	nics of chec	k
Crop	area	technology	Farmer	Units			change in				(Rs./	ha)			D	Rs./ha)	
		demonstrated			Demons	Check	yield	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
					Ration					Cost	Return	Return	(R / C)	Cost	Return	Return	(R / C)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Demonstration details on crop hybrids

						Yield (q/h	na)			Econ	omics of demo	nstration (Rs./h	na)
Сгор	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	High	Demo Low	Average	Check	% Increase in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oilseed crop	-	-	-	-	-	-	-	-	-	-	-	-	-

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

D. Performance of Cluster Frontline Demonstrations (CFLD)

CFLD on Oilseed crops

					Area		Yield	d (q/ha)			Econon	nics of de	monstration (1	Rs./ha)		Ec	onomics of a (Rs./ha)	heck
Сгор	Thematic Area	technology demonstrated	Variety	No. of Farmers	(ha)	High	Demo Low) Average	Check	% Increase in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Groundnut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

CFLD on Pulse crops

	Thomatic			No. of	A 2000		Yiel	d (q/ha)		% Increase	Ecor	omics of (Rs	demonstra ./ha)	ation	I	Economic (Rs.	s of check /ha)	÷
Сгор	Area	Technology demonstrated	Variety	Farmers	(ha)	High	Dem Low	o Average	Check	in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Pigeonpea	Varietal evalution	Seed of improved varities, Seed treatment of fungicide and biofertilizer, Sulpher, Insecticide for plant protection	BDN-711	32	12.8	4.06	2	3.56	2.13	67.14	7500	16910	9410	2.25	7000	10117	3117	1.44
Chickpea	Varietal evalution	Seed of improved varities, Seed treatment of fungicide and biofertilizer	BDNG-797 (Akash)	60	20	6.5	3.5	5.5	3.75	46.67	11000	22000	11000	2.0	10500	15000	4500	1.42
* Econor ** BCR=	nics to be w GROSS R	vorked out based total cost of production per us ETURN/GROSS COST	nit area and n	ot on critic	al inp	uts alo	ne.											

3.4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of				F	Participant	ts			
	courses		Others			SC/ST		6	Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	-	-	-	-	-	-	-	-	-	-
Production of inputs at site	01	19	00	19	00	00	00	19	00	19
Total	01	19	00	19	00	00	00	19	00	19
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Household food security by kitchen gardening and										
nutrition gardening	01	00	19	19	00	00	00	00	19	19
Women empowerment	06	00	179	179	00	00	00	00	179	179
Total	07	00	198	198	00	00	00	00	198	198
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	01	38	00	38	0	0	0	38	00	38
Total	01	38	00	38	0	0	0	38	00	38
Total	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	9	57	198	255	0	0	0	57	198	255

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				I	Participant	ts			
	courses		Others			SC/ST		0	Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	07	156	00	156	00	00	00	156	00	156
Livestock production and management	03	63	00	63	00	00	00	63	00	63
Agro forestry	01	50	00	50	00	00	00	50	00	50
Total	11	269	00	269	00	00	00	269	00	269
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	04	65	00	65	00	00	00	65	00	65
Production and use of organic inputs	03	41	15	56	00	00	00	41	15	56
Management of Problematic soils	01	13	00	13	00	00	00	13	00	13
Micro nutrient deficiency in crops	01	12	00	12	00	00	00	12	00	12
Soil and Water Testing	03	42	00	42	00	00	00	42	00	42
Total	12	173	15	188	0	0	0	173	15	188
V Home Science/Women empowerment	-	-	-	-	-	-	-	-	-	-
Household food security by kitchen gardening and										
nutrition gardening	02	00	26	26	00	00	00	00	26	26
Design and development of low/minimum cost										
diet	01	00	21	21	00	00	00	00	21	21
Value addition	01	00	09	09	00	00	00	00	09	09
Women empowerment	04	00	70	70	00	00	00	00	70	70
Location specific drudgery reduction technologies	1	00	21	21	00	00	00	00	21	21
Total	9	0	147	147	0	0	0	0	147	147
VII Plant Protection	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	08	160	00	160	00	00	00	160	00	160
Integrated Disease Management	03	43	00	43	00	00	00	43	00	43
Sericulture	03	62	00	62	00	00	00	62	00	62
Resource conservation	02	42	00	42	00	00	00	42	00	42
Total	16	307	0	307	0	0	0	307	0	307
Total	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL	48	749	162	911	0	0	0	749	162	911
Formous? Training including an ongound train	•		- COM	TOT ID	ATED		•			

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

Thematic area	No. of				I	Participant	s			
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	07	156	00	156	00	00	00	156	00	156
Livestock production and management	03	63	00	63	00	00	00	63	00	63
Agro forestry	01	50	00	50	00	00	00	50	00	50
Production of inputs at site	01	19	00	19	00	00	00	19	00	19
Total	12	288	0	288	0	0	0	288	0	288
III Soil Health and Fertility Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	04	65	00	65	00	00	00	65	00	65

Production and use of organic inputs	03	41	15	56	00	00	00	41	15	56
Management of Problematic soils	01	13	00	13	00	00	00	13	00	13
Micro nutrient deficiency in crops	01	12	00	12	00	00	00	12	00	12
Soil and Water Testing	03	42	00	42	00	00	00	42	00	42
Others (pl specify)										
Total	12	173	15	188	00	00	00	173	15	188
V Home Science/Women empowerment										
Household food security by kitchen gardening and										
nutrition gardening	03	00	45	45	00	00	00	00	45	45
Design and development of low/minimum cost diet	01	00	21	21	00	00	00	00	21	21
Value addition	01	00	09	09	00	00	00	00	09	09
Women empowerment	09	00	245	245	00	00	00	00	245	245
Location specific drudgery reduction technologies	1	00	21	21	00	00	00	00	21	21
Total	15	0	341	341					341	341
VII Plant Protection										
Integrated Pest Management	09	198	-	198	-	-	-	198	-	198
Integrated Disease Management	03	43	-	43	-	-	-	43	-	43
Sericulture	03	62	-	62	-	-	-	62	-	62
Resource Conservation	02	42	-	42	-	-	-	42	-	42
Total	17	345		345				345		345
GRAND TOTAL	57	806	360	1166	0	0	0	806	360	1166

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

	No. of				No. of	Participants	1			
Area of training	NO. 0I		General			SC/ST			Grand Total	
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Sericulture	01	20	00	20	00	00	00	20	00	20
Capacity building and group										
dynamics	01	48	00	48	00	00	00	48	00	48
TOTAL	02	68	00	68	00	00	00	68	00	68
		_								

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

Area of training	No. of				No. of	Participants				
	INO. 01		No. of Participants General SC/ST Grand e Female Total Male Female Total Male Female -							
-	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of	-	-	-	-	-	-	-	-	-	-
Horticulture crops										
TOTAL										

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

	No. of				No. of	Participants					
Area of training	LNO. 01	General SC/ST Male Female Total Male Female Total 1							Grand Total		
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Capacity building and group											
dynamics	01	48	00	48	00	00	00	48	00	48	
TOTAL	01	48	00	48	00	00	00	48	00	48	

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

	No. of	No. of Participants									
Area of training		General				SC/ST Grand Total			al		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Household food security	01	00	19	19	00	00	00	00	19	19	
TOTAL	01	00	19	19	00	00	00	00	19	19	

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

Area of training	No. of	No. of Participants								
	Courses		General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

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

	No. of	No. of Participants								
Area of training		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Household food security	01	00	19	19	00	00	00	00	19	19
TOTAL	01	00	19	19	00	00	00	00	19	19

Sponsored training programmes

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

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

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

Details of trainings organized under ASCI

	No. of				No. of	Participan	its			
Area of training	LNO. 01		General			SC/ST		(Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Seed production	01	18	01	19	00	00	00	18	01	19
Sericulture	01	20	00	20	00	00	00	20	00	20
TOTAL	02	38	01	39	00	00	00	38	01	39

3.5. Extension Programmes

			No. of	TOTAL
Activities	No. of programmes	No. of farmers	Extension	
			Personnel	
Advisory Services	111	25172363	-	25172363
Diagnostic visits	03	63	-	63
Field Day	02	61	-	61
Group discussions	05	113	-	113
Kisan Mela	03	240	25	265
Exhibition	03	2508	78	2430
Scientists' visit to farmers field	36	359	-	359
Farmers' seminar/workshop	01	231	-	231
Method Demonstrations	16	279	-	279
Celebration of important days	3	191	37	228
Swacha Bharat Abhiyan	2	725	31	756
Nutritional Week	01	73	-	73
Monthly Farmers Workshop (KVM)	10	434	23	457
Webcasting of Hon PM	04	288	37	325
Total	200	25178401	231	25178415

Details of other extension programmes

Particulars	Number
Extension Literature	04
Newspaper coverage	57
Total	61

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

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	-	-	-	-	-	-
Total	-	-	-	-	-	-

Production of Seeds by the KVKs

Production of Planting Materials by the KVK

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial	-	-	-	-	-	-
Vegetable seedlings	Brinjal		Gaurav	4000	4000	3000
	Green chili	Tejapur		4000	4000	3000
	Tomato		Arka Rakshak	4000	4000	2000
	Cucumber		Shinefit	4000	4000	0
	Capsicum		Paledin	4000	4000	0
	Sweet orange	Nucelar		10000	500000	3000
	Mango	Kesar		5000	250000	500
	Lime	K. Lime		2000	40000	1000
	Pomegranate	Super Bhagva, Bhagva		35000	77000	2000
	Guava	Lalit		500	15000	500
	Bouganvilles	Local		7000	70000	-
	Jasmin	Benglore cutting		2000	30000	1000
	Merigold		Namdhari	5000	5000	-
Total				86500	1007000	16000

Production of Bio-Products

	Name of the bio-product	Quantity		
Bio Products		Kg	Value (Rs.)	No. of Farmers
Others	Vermicompost	1950	29980	Utilized at KVK farm
Total		1950	29980	Utilized at KVK farm

Production of livestock materials

	Name of the breed	Number	Value (Rs.)	No. of Farmers
Particulars of Live stock				
Dairy animals	-	-	-	-
Total	-	-	-	-

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

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

B. Literature developed/published

Item	Title	Authors name	Number
Extension literature	Method of Soil Sampling	S.S. Wagh	500
	Green Manuring	S.S. Wagh	500

	Cotton + Green gram	K.A. Sukase, S.S. Wagh	500
	Pearl millet + Pigeeon pea	K.A. Sukase, S.S. Wagh	500
TOTAL			2000

C. Details of Electronic Media Produced

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

D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs: The Success Stories / Case Studies need not be restricted to the reporting period). At this point please give titles of the success stories/ case studies. Detailed case study documents may be given at the end as an Annexure.

The Broad outline for the case study may be Title, Background, Interventions (Process and Technology) and Impact (Horizontal Spread, Economic gains and Employment Generation) etc.

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

A district level informal group of progressive and innovative farmers voluntarily come to KVK to hold a meaningful seminar on need based topics on 21st of every month from November 2016. It is a regular event without any discontinuity. Farmers from Aurangabad and adjoining district involve in this seminar to fulfill their technological needs with the support of KVK and expert of reputed scientific institute including SAUs. Total 26 monthly seminars are organized till Feb 2019.

	MGM Krishi V	√igyan Kendra, Aurangabad-II	
	Krishi Vigyan	Mandal Programme	
Sr. No	Date	Programme	Participants
16	21/04/2018	Recharging of Well & Tube well	14
17	21/05/2018	Cotton, Pigeon pea & Maize cultivation	12
18	21/06/2018	Doubling farmer income technology	23
19	21/07/2018	Preparing of Bakery products	39
20	21/08/2018	Cotton, Maize Pest and Dieses management	52
21	21/09/2018	Clustered apple cultivation	130
22	21/10/2018	Gram cultivation	28
23	21/11/2018	Water management	24
24	21/12/2018	Fodder management in drought condition	35
25	21/01/2019	Bamboo cultivation	89
26	21/02/2019	Sericulture	38

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

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

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

A. Practicing Farmers

- a) PRA of adopted villages
- b) Group discussion
- c) Data from line department
- **B. Rural Youth**
- a) PRA of adopted villages
- b) Group discussion
- c) Data from line department
- C. In-service personnel
- a) Data from line department

For FLD:

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

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) – Palaswadi , Tahkarwadi tq- Khultabad, Bhindon tq- Aurangabad, Sahstramuli, Tq- Paithan from 2018-19

- ii. No. of farm families selected per village : 20
- iii. No. of survey/PRA conducted :1 per village
- iv. No. of technologies taken to the adopted villages:20
- v. Name of the technologies found suitable by the farmers of the adopted villages: Pigeon pea variety of BDN-711, IPM in Redgram & cotton, INM in Cotton & Maize,
- vi. Impact (production, income, employment, area/technological- horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies:
 - Due to drought situation in the year 2018-19

5.4. No. and Name of villages adopted for Doubling Farmers Income. Indicate whether benchmark survey of the villages are done or not.

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
S.A.O. office	For collection of basic data
T.A.O. Office	
Bio Control lab	
Mahabij	
Vasantrao Naik MKV, Parbhani	Technology inventory for preparation of action plan of 2013 - 14
Sericulture	For development of Sericulture and agri preneurship.

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
-	-	-	-

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	-	2	-	-
02	Research projects	-	-	-	
03	Training	-	-	04	-
03	programmes				
04	Demonstrations	-	-	40	-
05	Extension	-	-	-	-
03	Programmes				
	Others (Pl. specify)	Web casting of		01	
		Inauguration of Kisan			
		Sanman Nidhi Yojana			
06	Publications				
07	Other Activities				
07	(Pl.specify)				

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
	-	-	-	-	-

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
	-	-	-	-	-

7. Convergence with other agencies and departments: Activities may be specified under DAESI, YCMOU study centres and others

8. Innovator Farmer's Meet

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

ATMA formed 13 Farmers producer organization (FPO) in Aurangabad District other farmers group also egar to form new FPO. To strengthen with the help marketing guidance and to help other farmers group 36

to form FPO MGM Krishi Vigyan Kendra organizes Inovative farmers meet namely CITA (Center for International Trade in Agriculture) Sanvad on 17 July 2018 in coordination with Yashvantrao Chavan Pratisthan, Mumbai, Divisional office Aurangabad. Representative of FPO and 231 farmers attended this programme.

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:

Use of Pheromens traps helps for identification of attack of insect.

Due to intercropping farmers get additional income

With the help of soil testing save fertilizer

With the help of soil testing save fertilizer and get more yield

Due to increase of population of honey bees increase the seed setting observed in Onion seed production.

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

Pheromens traps helps for pest monitoring

Due to intercropping helps for utilization of row to row space in long duration crop. Soil testing help for detection of deficiency of major, micro and secondary nutrients Use of flowering crops in seed production of onion helps to attract honey bee

11. Technology Week celebration during 2018-19: Yes,

If Yes

Period of observing Technology Week: From20/09/2018to 22/09/2018Total number of farmers visited: 746Total number of agencies involved: 08Number of demonstrations visited by the farmers within KVK campus:05

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Lectures organized	3	746	Bamboo, Custered apple and Sweet Orange
Exhibition	1	746	
Farm Visit	3	522	Fruit crop, fodder crop, vegetable crop
Supply of Literature (No.)	1	746	
Total number of farmers visited the	3	746	
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
-	-	-	-

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries		
Oilseeds	-	-		
Total	-	-		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of	No.of participants

		interactions	
Total	-	-	-

D. Animal health camps organized

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

E. Seed distribution in drought hit states

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

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

State	ate Meetings		Gosthies		Field days F		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Total												

13. IMPACT

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

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

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

B. Cases of large scale adoption- full cases may be given at the end as Annexure. (Please furnish detailed information for each case and)

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 2018	09	882937	
May	04	629367	
June	05	629514	
July	05	305882	
August	12	1871202	
September	04	618623	
October	13	2024296	
November	13	2010658	
December	09	2344009	
January 2019	08	2319265	
February	08	2319403	
March	09	2632769	

Nama af		Type of Messages								
KVK	Message Type	Сгор	Livestock	Weather	Marke- ting	Aware- ness	Other enterprise	Total		
MGM KVK Aurangabad								99		
ΙΙ	Text only	44	12	9	2	6	26			
	Total Messages	44	12	9	2	6	26	99		
		782672	196680	1419757	467892	17394	5167290	1858792		
	Total farmers Benefitted	3	6			57		5		

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm including value added products)

S 1		Vear of	Aroo	Details	s of product	tion	Amour	nt (Rs.)	
No	Demo Unit	Establishment	(ha)	Variety	Produce	Otv	Cost of	Gross	Remarks
110.		Lotuonshinem	(iiu)	variety	Tioduce	Q13.	inputs	income	
1	Poultry	2018-19	-	Kaweri	-	300	65000	82358	-
2	Silage	2018-19			50		37500	250000	-
					(t)				
3	Vermicompost	2018-19	0.029	-	-	1950	18300	29940	-
4	Kitchen	2018-19	0.02	-	-	-	2904	5353.5	-
	garden								
5	Sericulture	2018-19	4.0	V-1	200	130	10000	390000	-
					DFL	kg			
6	Azolla	2018-19	-	-	-	9 kg	-	1800	-

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

Nama	Data af	Data af	a (De	etails of produ	ction	Amour	nt (Rs.)	D
of the crop	sowing	harvest	Are (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	kemar ks
Sunflower	03/11/18	16/03/19	0.1	PBNS 12	Seed	50	1000	2500 0	
Dhencha	20.07.18	25/09/18	2	Local	Green Manuring	150 qt.	2000 0	-	
Spices & Plan	tation crops								
Floricult									
ure									
Rose	23.06.201		0.13	Gladiate	Mother		5000	-	
	5			r	block				
Rose	22/06/15		0.13	Floriban	Mother		5000	-	
				da	block				
Jasmin	24/08/13		0.13	Bengalo	Mother			-	
				re	block				
				Cutting					
Kakada	11/11/16		0.13	Mukhed	Mother			-	
				local	block				
Marry	14/07/18	05/10/18	0.13	Calcutta	Flower	1000Kg	8000	20000	
gold				Cutting					
Tuber	28/06/17	15/02/18	0.20	Single	Flower	15000	10000	35000	
Rose				bud		sticks			
Fruits									
Mango	02.12.201	After	0.40			10,000	20000	-	
	3	five				seedling			
		years							
Pomegran	04.12.14	After	0.40	Ganesh,	Mother	32000	26000	-	
ate		two		Arakta,	block	seedling			

		years		Mrudula					
				, Ganesh					
				137,					
				Bhagaw					
Lime	22.06.15	After	0.20	Akola	Mother	1000	5000	-	
Line	22.00.15	five	0.20	lime	block	1000	5000		
		years							
Guava	07.08.14	After	013	Lalit,	Mother	1000	5000	-	
		five		Safeda,	block				
		years		Sweta					
Custered	16.11.17	After	0.10	Bala	Mother	-	6000	-	
apple		five		Nagar	block				
Sweet	20.00.12	After	0.40	Nucolor	Mother	10000	27000		
orange	29.09.15	five	0.40	Nuseiai, Sat gudi	block	10000	27000	-	
orange		vears		Kalol	ыск				
		Jeurs		gold					
Rangpur	05.08.15	After	0.20	Rangpur	Fruit	50000	12000	-	
lime		five		Lime					
		years							
Sapota	28.08.13	After	0.10	Kali	Mother	-	6000	-	
		five		patti	block				
Anola	01.07.16	After	0.10		Mother		5500		
Alloia	01.07.10	five	0.10		block	-	5500	-	
		years							
Ber	23.06.18	After	0.13	Maharu	Mother	-	5000	-	
		five		n,	block				
		years		Umaran,					
				Kadaka,					
				Chiwara					
				, NB1 Vil					
				iachi					
Ber	26.06.15	After	0.13	Apple	Mother	-	5000	-	
		five		ber	block				
		years							
Tamarind	26.06.15	After	0.13	Pratistha	Fruit		6000	-	
, Anola &		five		, Doulata					
rig		years		bad N7					
Vegetabl		1		, 11/				-	
es									
Kharif –	05/07/18	29.08.17	0.10	Improve	Vegeta	1000 kg	2000	5000	
Leafy				d	ble				
Vegetabl									
e Turmeric	29/06/18	02/04/19	0.10	Selam	Vegetable	04 at	8000	24000	
Bitter	07/07/18	04/09/18	0.05	Vidva	Vegetable	440 kg	0000	2-1000	
gourd	57757710	0 1/ 0 // 10	0.00	, iuju	, egotuble	110 16			
Ridge	07/07/18	12.08.18	0.05	Surekha	Vegetable	450			
Gourd					-				
Brinjal	07/07/18	17.09.18	0.10	Gourav	Vegetable	1000 kg		-	
Okra	07/07/18	10.08.18	0.10	Sonal	Vegetable	600 kg			
Kabi – Loofy									
Leary Vegetabl									
e									
Sweet	27/10/18	11/02/19	0.20	Synjenta	Vegetable	10 qt	3000	15000	
corn						·			
Cabbage	15/08/18	30/09/18	0.1	Phule	Vegetable	200 kg	2000	10000	
				basvanti		& 500	å	å	

							kg		2000	3000	
Vegetable	05/10/18	05/11/18	0.20	East -	Veg	getable	-		-	-	
s (05				West							
types)				Seed							
Shed net	13.02.18	01.04.18	01	Capsicu	Veg	getable	645		-	-	
01				m							
Shed net	16.02.18	25.04.18	01	Tomato	Veg	getable	196	7	10000	15000	
02											
Shed net	10.03.18	15.04.18	01	Cucumb	Veg	getable	117	3	5865	5000	
03				er							
Others (specify	y)-	•		<u>.</u>							
Sustainabl	-12.11.14	After 6-	0.40	Ber,		Fodder		8 tn	1200	-	-
e goat		12 month		Drumstick,					0		
project				Indian fig							
				tree,							
				Aradu,							
				Mulbery,							
				Pimpal,						1	
				Shevari, Su	L I						
				babhul							

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

S1.	Name of the		Amou		
No.	Product	Qty	Cost of inputs	Gross income	Remarks
-	-	-	-	-	-

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

	Name	Details of production			Amou		
Sl. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
-	-	-	-	-	-	-	-

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)

F. Database management

S. No	Database target	Database created

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

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.		Activities	conducte	d		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							
With KVK	SBI	Samarth Nagar, Aurangabad	Samarth Nagar,	MGM Krishi Vigyan Kendra	32029168895	000271	SBIN0007919

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

S. No.	Particulars	Sanctioned	Released	Expenditure				
A. Rec	A. Recurring Contingencies							
1	Pay & Allowances	80.96	60.00	81.21				
2	Traveling allowances	0.50	0.50	0.50				
3	Contingencies		•					
Α	Stationery, telephone, postage and other expenditure on							
	office running, publication of Newsletter and library							
	maintenance (Purchase of News Paper & Magazines)	2.25	2.25	2.23				
В	POL, repair of vehicles, tractor and equipments	1.0	1.0	1.44				
С	Meals/refreshment for trainees (ceiling upto							
	Rs.40/day/trainee be maintained)	0.05	0.02	0.02				
D	Training material (posters, charts, demonstration material							
	including chemicals etc. required for conducting the							
	training)	1.10	1.10	2.20				
Ε	Frontline demonstration except oilseeds and pulses							
	(minimum of 30 demonstration in a year)	0.80	0.80	0.71				
F	On farm testing (on need based, location specific and							
	newly generated information in the major production	0.00	0.00	0.00				
~	systems of the area)	0.60	0.60	0.60				
G	Training of extension functionaries	2.30	2.30	2.29				
H	Maintenance of buildings	-	-	-				
Ι	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-				
J	Library	-	-	0.03				
k	Farm maintenance	2.15	1.33	3.04				
	TOTAL (A)	91.71		94.27				
B. Non-Recurring Contingencies			69.90					
1	Works							
2	Equipments including SWTL & Furniture							
3	Vehicle (Four wheeler/Two wheeler, please specify)							
4	Library (Purchase of assets like books & journals)							
ТОТА	L (B)							
C. RE	VOLVING FUND(Host organization)	00	22.67	12.20				
GRAND TOTAL (A+B+C)		91.71	92.57	101.47				

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 2016 to March 2017	0.69	3.81	3.16	1.34
April 2017 to March 2018	1.34	7.16	5.59	2.91

April 2018 to March 2019	2.91	11.70	3.45	11.15
	4.94	22.67	12.20	15.40

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
-	-	-	-	-

18. List the other collaborative research/ extension projects and also write brief key achievements of the projects.

- Pro SOIL
- NARI (Please indicate the name of one adopted village and give the activities carried over on nutri sensitive agriculture)
- VATICA
- Seed Hub
- Others (if any)
- **19.** Please include any other important and relevant information which has not been reflected above (write in detail).

APR SUMMARY

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

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	58	806	360	1166
Rural youths	02	68	-	68
Extension functionaries	01	-	19	19
Sponsored Training	02	38	01	39
Vocational Training	-	-	-	-
Total	63	912	380	1292

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	-	-	-
Pulses	22	9.6	-
Cereals	10	4.0	-
Vegetables	22	8.8	-
Other crops	12	4.8	-
Total	66	27.2	-
Other enterprises	30	-	-
Total	30	-	-
Grand Total	96	27.2	-

3. Technology Assessment

Category	No. of Technology	No. of Trials	No. of Farmers
	Assessed		
Technology Assessed			
Crops	06	70	70
Other	03	30	30
Total	09	100	100

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	89	6113
Other extension activities	61	-
Total	140	6113

5. Mobile Advisory Services

			Type of Messages					
Name of KVK	Message Type	Сгор	Livesto ck	Weather	Marke -ting	Awar e-ness	Other enterpris e	Total
	Text only	44	12	09	02	06	38	111
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	44	12	09	02	06	38	111
	Total farmers Benefitted	782672 3	196680 6	1419757	67895 35	1739 457	467892	

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Planting material (No.)	86500	1007000

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	226	-
Water	_	-
Plant	-	-
Total	226	-

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	04
3	Meetings	05
3	Visits of KVK officials	02
4	Extension folder	04

PoCRA activities performed by KVKs in Maharashtra during 2018-19 (KVKs in Vidarbha and Marathwada)

Name of the KVK : KVK, AURANGABAD - II

- 1. Name of the District: Aurangabad
- 2. No. of blocks covered: 9 (Out of 9)
- 3. No. of PoCRA villages covered in 1^{st} phase : 77
- 4. No. of FFS conducted during 2018-19 : 154

Particulars	Kharif	Rabi	Total
No. of FFS	154	16	170
No. of rounds per FFS (Days)	08	06	14
Total No. of FFS Days			

- 5. No. of facilitators engaged during 2018-19 : 11
- 6. FFS wise Climate resilient technologies identified in the district

Technology identified						
Cotton + Green gram (Kharif) 1. Climate resilient varieties	Pearl millet + Red gram (Kharif)	Chickpea (Rabi) 1. Climate				
 Seed treatment INM IPM In situ moisture consevation 	 Climate resilient varieties Seed treatment INM In situ moisture consevation 	resilient varieties 2. Seed treatment 3. INM 4. IPM 5. In situ moisture conservation				

7. Financial provisions (As per revised guidelines email dated 11/10/2018) and actual amount received at KVK level.

FFS	FFS expenditure for Vulnerable villages other than Saline villages (0.4 ha)						
Activity / Item Unit				Cost Norms (Rs)			
Sr No			Financial allocation for 1 st year	No. of activities carried out	Total receivable amount (Rs)	Actual amount received at KVK level (Rs)	
А.	Support to SDAO						
1	Demonstration on Climate Resilient Seed & cultivation technology	Input cost Lump sum	3000	-	-	Nil	
2	IPM & INM	Input cost Lump sum	2000	-	-	Nil	
3	FFS kit & Stationary	Lump sum	2000	-	-	Nil	

4	Refreshment (30 persons & 8 events)	1st yr-Rs. 35 per person, 2nd Yr- Rs 40 per person, 3rd Yr- Rs 45 per person	8400	-	-	Nil
5	Incentive to achiever farmer	Lump sum	2,800	-	-	Nil
6	Crop cutting, Field day & contingency	Lump sum	2,000	-	-	Nil
7	Honorarium to Facilitator for 8 training cum visit days	Rs. 1000 per event	8000	-	-	Nil
8	Travel & communication exp. for Facilitator for 8 training cum visit days	1st yr-Rs. 300 per vist, 2nd Yr- Rs 400 per visit, 3rd Yr- Rs 500 per visit	2400	-	-	Nil
	Sub-total		30600	-	-	Nil
B	Support to Krishi Vigyan Ken	dra (KVK)/ Technolo	ogy Provide	r		
1	Technical Literature/ Informative material	Lump sum	1000	2	6979	6979
2	Documentation Lump sum		500	-	-	Nil
3	Technical Support & contingency	Lump sum	2000	-	-	Nil
	Sub-Total		3500	-	-	Nil
	Total		34100	2	6979	6979

PoCRA activities carried out during 2018-19

S. No.	Activity	No. of activities	No. of man-days used	No. of KVK staff involved other than facilitators	Expenditure if any (Rs)
1	To prepare and publish advertisement for facilitators	01	01	01	10343
2	Selection and appointment of facilitators (Walk-In-Interviews)	01	06	03	-
3	Participation of FFS Coordinator in ToT at RAMETI with facilitators	01	03	01	-
4	Allotment of villages to facilitators	01	01	02	-
5	Field level monitoring visits of KVK head, coordinator and Subject Matter Specialists	04	08	02	-
6	Organizing capacity building trainings of facilitators at KVK level	02	02	03	-
7	Organizing training of PoCRA farmers On / Off campus other than FFSs	-	-	-	-
8	Participation in field days / awareness programmes in PoCRA villages	-	-	-	-
9	Participation in meetings at PMU level	01	02	02	-
10	Participation in district level joint meetings with ATMA /	02	02	02	-

	SDAO / DSAO				
11	Participation in Audio / Video	03	03	02	-
	conference at district level				
12	Participation in HRD trainings	02	07	01	-
	organized under PoCRA				
13	Preparation of FFS schedule /	08	15	01	-
	reports / bills, etc				
14	Preparation of literature as soft /	02	05	02	-
	hard copy				
15	Report preparation and	03	01	02	-
	submission of bills				
16	Any other (Please specify)	-	-	-	-

Status of payment of facilitators

FFS Round	Bill submitted	Payment credited in the	Delay by
(No.)	(Month)	account of facilitators	(No. of months)
		(Month)	
Kharif FFS			
Rabi FFS			

- 8. No. of farmers covered through _____ FFS training days @ 20 farmers attendance on an average = _____No.
- 9. Institutional charges / TA / DA / POL received at KVK level if any : _____ Rs

10. No. of villages proposed in second phase for the year 2019-20 : **194 No.**

- 11. General observations and comments on each component:
 - 11.1 Attachment and accessibility of facilitators : Good
 - 11.2 Involvement and cooperation of host farmers : Good
 - 11.3 Involvement and cooperation of Agril. Assistants in terms of presence in FFS, making logistic arrangements, etc : Not good
 - 11.4 Timely availability of critical inputs from SDAO / ATMA : Inputs purchase timely but responsibility of distribution of input given to facilitator. To get inputs facilitator have to travel from his residence to ATMA office, this activity taken time and extra expenditure to facilitator.
 - 11.5 Controlling system on facilitators and overall coordination at district level: Facilitator controlling was responsibility of KVK & right of payment was at ATMA office. Due to this reason controlling and coordination become difficult.
 - 11.6 Stability of facilitators and problems thereof : Some facilitator leaved job in mid season at that time ATMA asked to KVK to appoint new facilitator by following procedure
 - 11.7 Overall impression and feedback of beneficiary farmers about involvement of KVKs in FFS component: Not assessed
- 12. Any other point not covered above: