ICAR-ATARI, Pune

DETAILS OF ACTION PLAN OF KVKs DURING 2019-20

(1st April 2019 to 31st March 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra, Junagadh Agricultural University, Morbi Dist Morbi (Gujarat) – 363641	**Office**	**FAX**	kvkmorbi@gmail.com	www.jau.in
	02822-224853	-		

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

Address	Telephone		E mail	Website address
	Office	**FAX**		
Junagadh Agricultural University, Junagadh (Gujarat)	0285-2672080	0285-2672653	dee@jau.in	www.jau.in

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

Name	Telephone / Contact		
	Mobile	**Office**	**E mail**
Dr . D. S. Hirpara	9426938235	02822-224853	dshirpara@jau.in

1.4. Year of sanction: 2017 (Grant & Staff from March-2017)

1.5. Staff Position (as on March 31, 2019)

				If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
No	**Sanctioned post**	**Name of the incumbent**	**Discipline**	**Current Pay Band**	**Current Grade Pay**	**Date of joining**	
1.	IC/ Senior Scientist and Head	Dr.D.S.Hirpara	Agronomy	37400-67000	9000	01/03/17	-
2.	Subject Matter Specialist	D.A.Saradava	Plant Protection	15600-39100	7000	01/03/17	-
3.	Subject Matter Specialist	Dr.Hemangi D. Mehta	Home Science	15600-39100	7000	01/08/17	-
4.	Subject Matter Specialist	Vacant	-	-	-	-	-
5.	Subject Matter Specialist	Vacant	-	-	-	-	
6.	Subject Matter Specialist	Vacant	-	-	-	-	-
7.	Agriculture Officer	Gamansinh S.Zala	B.Sc. Agri.	Fix Pay	Fix Pay	01/08/18	-
8.	Programme Assistant	Vacant	-	-	-	-	-
9.	Computer Programmer	Vacant	-	-	-	-	-
10.	Farm Manager	Vinuji V. Thakor	B.Sc. Agri.	Fix Pay	Fix Pay	31/07/18	-
11.	Accountant/Superintendent	Vacant	-	-	-	-	-
12.	Stenographer	Vacant	-	-	-	-	-
13.	Driver 1	Vacant	-	-	-	-	-
14.	Driver 2	Vacant	-	-	-	-	-
15.	Supporting staff 1	Vacant	-	-	-	-	-
16.	Supporting staff 2	Vacant	-	-	-	-	-

1.6. Total land with KVK (in ha): 26Ha.

Sr. No.	Item	Area (ha)
1	Under Buildings	1.0 ha
2.	Under Demonstration Units	Nil
3.	Under Crops	6.0 ha
4.	Horticulture	Nil
5.	Pond	1.5 ha
6.	Others if any	17.7 ha road,bund and river valley

1.7. Infrastructural Development:

A. Buildings

No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	KVK	-	-	-	1-12-2017	575.32	Construction and plaster work completed
2.	Farmers Hostel	KVK		-		1-12-2017	443.96	Construction and plaster work completed
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	2018-19	-	2,00,000/-	2017-18	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	ICT lab	-	-	-	-	-	-	-
10	Other	-	-	-	-	-	-	-

B. Vehicles :- Nil

C. Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Tractor MasseyDI-241	2017	607137	Working
Computer System Acer 18.5	2017	34115	Working
Computer System Acer 18.5	2017	34115	Working
Printer MF 3010 canon	2017	10266	Working
Printer LBP 6510	2017	8761	Working

1.8. Details of SAC meetings to be conducted in the year

Sl.No.	Date
1. Scientific Advisory Committee	

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Cotton-Wheat/Cotton-Cumin/Groundnut-Wheat/Groundnut-Cumin/Cotton-Summer Sesame
2	Animal husbandry – crop based enterprise /Dairy product
3	Farm Waste Management/ Crop residue management
4	Value addition in Groundnut/ Sesame

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

A. Soil type

No.	Agro-climatic Zone	Characteristics
1	North Saurashtra Agro Climatic Zone Morbi,Wankaner and Tankara (Agro – eco-situation –No.7)	Semi arid- region with annual rainfall 550-600 mm, 29 rainy days. Maximum temp – 44˚C, Minimum range – 5 to 12˚C & high evaporation
2	North west agro climatic Zone- 5 Maliya (mi) and Halvad block	Arid to semi arid region with annual rain fall – 500 to 550 mm maximum temp - 45˚C, Minimum range – 3 to 12˚C & high evaporation

B. Topography

No.	Agro ecological situation	Characteristics
1	Situation No. 7	Plain & hilly areas in wankaner tehsil.
2	Situation No. 5	Plain costal region (saline) affected with desertification

2.3. Soil Types

S. No	Soil type	Characteristics	Area in ha 000’
1	Medium black clayey	Low in organic carbon, heavy cracking and clod formation	202.4
2	Alluvial Soil (sand-loam lomy)	Low fertility status, high infiltration rate	91.8
3	Hilly Soil (light)	Undulating topography, low fertility eroded soil	13.6
4	Silty Soil (loomy)	Low infiltration rate, water logging, difficult to cultivate	5.5

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

S. No	Crop	Area (ha)	Production (M. T.)	Productivity (q/ha)
1	Groundnut	49810	83840	1683
2	Cotton (Bt)	219169	387239	1767
3	Pearl millet	434	413	952
4	Sesame	8903	5797	651
5	Castor	8700	13832	1590
6	Green gram	1429	1156	809
7	Black gram	1080	1001	927
8	Vegetable	1655	45959	2777
9	Fodder	24542	607853	24768
10	Wheat	3900	13436	3445
11	Gram	2115	2991	1414
12	Cumin	5660	5345	944

2.5. Weather data (2018-19)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
June	22				
July	110				
August	85.4				
September	4.8				
October	Nil				
Total	**222.2**				

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

Category	Population	Production	Productivity
Cattle			
Crossbred	161857		12 lit/Day
Indigenous			
Buffalo	194019		17 lit/Day
Sheep	87357		
Goats	144309		
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens	1000000		3 kg/Bird
Desi			
Category		Production (Q.)	Productivity
Fish (Reservoir)			

2.7. Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Morbi	**Morbi**	Gorkhijadia Jepur, Lutavadar, Bharatnagar, Laxminagar, Jetpar, Amreli, Jodhpar	*Groundnut, Cotton, Sesame, Wheat, Cumin, Gram Chickpea, Onion. *Enterprises are dairy business, Vermi composting, preparation of roasted groundnut and chikki from groundnut seed	Pink ball worm in Cotton, Heavy infestation of sucking pest in cotton , *phytopthora* disease in sesame and white grub infestation in groundnut.	*IPM and INM in major crops of this area *Increase drainage of soil *Motivate the farmers for arid Horticultural crops. *Efficient use of irrigation water

Tankara	**Tankara**	Sajjanpar, Jabalpur Hadmatiya, Harbattiyali, Nasitpar,	*Groundnut, Cotton, Sesame, Wheat, Cumin, Gram Chickpea, Garlic, Onion. Vermi composting, preparation of roasted groundnut and chikki from groundnut seed	Pink ball worm in Cotton, Heavy infestation of sucking pest in cotton , *phytopthora* disease in sesame and white grub infestation in groundnut. Nutritional deficiency in animal feed and fodder, Less area under Horticultural crops	*IPM and INM in major crops of this area *Increase drainage of soil *Efficient use of irrigation water
Wankaner	**Wankaner**	Devipur, Devalia,	*Groundnut, Cotton, Sesame, Wheat, Cumin, Gram. *Enterprises are dairy business, Vermi composting, preparation of roasted groundnut and chikki from groundnut seed	Pink ball worm in Cotton, Heavy infestation of sucking pest in cotton , *phytopthora* disease in sesame and white grub infestation in groundnut. Long inter-calving period in Buffalo, Nutritional deficiency in animal feed and fodder, Less area under Horticultural crops	*IPM and INM in major crops of this area *Reducing the inter-calving period in Buffalo *Motivate the farmers for arid Horticultural crops. *Efficient use of irrigation water

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Groundnut, Sesame etc	Increasing the productivity of the major crops by adopting the recommendation of dry farming technologies and to create awareness for value addition.
Water conservation	*In situ* soil moisture conservation and rainwater harvesting. Use of cotton stalk for organic manure.
Cotton	Motivating cotton growers to adopt IPM and INM practices for reducing the cost of production.
women	Providing self employment through skill oriented income generating

empowerment	activities
Agriculture	Developing interest among youth for agriculture as a profession.
Horticulture	Value addition in agriculture produces through proper grading, processing, marketing and information technology.
Income generating activities	Self employment among rural youth and skill oriented income generating activities.
Nutrition management	Care and importance of nutrition in children & pregnant women.

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
2	20	20	50

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
32	800	50	10000

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (No's)	Soil Samples
(5)	(6)	(7)	(8)
30.0 Groundnut – 15 Sesame – 05 Cummin – 05 Chickpea – 05	-	-	-

3.1. B. Operational areas details proposed during 2018-19

No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Bt. cotton	Sucking pest Para witting Pink ball worm	1,12,000 ha	Halvad, Tankara, Wankaner, Morbi block	FLD on pinkball worm management. Training on pink ball worm management
2	Groundnut	White grub Stem rot	42,000 ha	Tankara, Halvad block	OFT on White grub management in groundnut. Training on test and Disease management in groundnut.
3.	Cumin	Wilt and Blight	3900 ha	Morbi, Halvad, Maliya	FLD and OFT on Wilt management and also training for IDM in Cumin.

* Support with problem-cause and interventions diagram

3.2.Technologies to be assessed and refined

A.1. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oil seeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Pest Management	-	1	-	-	-	-	-	-	-	**1**
Integrated Disease Management	-	-	-	1	-	-	-	-	-	**1**
TOTAL	**-**	**1**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**2**

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

B. Details of On Farm Trial / Technology Assessment during 2019-20

No.	Crop/ Enteprise	Priori tized problem	Title of OFT	Tech. options	Source of Tech.	Name of critical input	Qty per trial	Cost per trial	No. of trial	Total cost for the OFT (Rs.)	Para meter to be studied	Team member
1	Ground nut	White grub	Management of White grub in groundnut	1 Sowing of groundnut without Seed treatment. Farmers adopt drenching of Chlorpyriphos or quinalphos @ 6 lit/ha with irrigation at initiation of pest incidence. (Farmers practice) 2. Seed treatment with chlorpyriphos or quinalphos @ 25 ml/kg seed.(GAU Reco.)	GAU	Chlorpyphos for seed treatment	1 leter	1200	2	2400	1)Yield 2) No.of Infested Plant in 1sqmt area	1) Dr.D.S. Hirpara 2) Shri D.A. Saradva 3) Dr.H.D. Mehta
2	Cumin	Wilt	Use of Trichoderma for cumin wilt	1. No use of trichoderma at the time of sowing.. (Farmers practices.) 2. Application of *Trichoderma* @ 5 kg /ha with organic manure @1000 kg / ha at the time of	JAU	Trichoderma	10 Kg	1750	2	3500	1) Yield 2)Percentage of incidene in 1 sqmt Area	1)Shri D.A. Saradva 2) Dr.D.S. Hirpara 3) Dr.H.D. Mehta

				sowing.. (Recommended practices.) and second application after 25 DAS with some rate								
3	Malnutrition	Maltrition in Child (1 to 5 Year)	A reduce the malnutrition problem in preschool children (1 to 5 yr)	1) Provided by PHC (Different healthy diets in different areas) 2) Low cost, high calorie diet prepared from locally available food material	WHO Report -2017	groundnut seed, rice, Green leafy vegetable, jiggery, Fruits, Pulses, Amla juice. **Note:-** Ghee& Milk give highly affected children by malnutrition	8 Kg	250	8	2000	Every month Body weight (WHO-New Body mass index chart, male & female)	1) Dr.H.D. Mehta 2) Shri D.A. Saradva 3) Dr.D.S. Hirpara

3.3. Frontline Demonstrations

A. Details of FLDs to be organized -

No	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
1	Ground nut	Crop Impr.	New variety of groundnut GJG22/GJG-32	Seed	20000/-	*Kharif*-2019	4	10	Yield
2	Cotton	IPM	Pink ball worm management in cotton	Pheromone trap + MDP	15000/-	*Kharif*-2019	4	10	Yield & Pest population
3	Cumin	IPM	Wilt management	Trichoderma + seed	15000/-	Rabi-2019	4	10	Yield & diseased plants
4	Gram	Crop Impr.	New variety of gram GJG-5	Seed GJG-5	20000/-	Rabi-2019	4	10	Yield
					Total		**16**	**40**	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers
1) Pearl millet	2	5
2) Plastic mulch in vegetables	2	5

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	Aug.	50
2	Farmers Training	1	Sept.	1
3	Media coverage	-	-	-
4	Training for extension functionaries	-	-	-

C. Details of FLD on Enterprises

a. Farm Implements :-Nil

b. Livestock Enterprises :- Nil

3.4.Training (Including the sponsored and FLD training programmes):

A. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Integrated Crop Management	1	22	00	22	03	00	03	**25**
Production of organic inputs	1	22	00	22	03	00	03	**25**
Integrated Farming	1	22	00	22	03	00	03	**25**
II Horticulture								
a) Vegetable Crops								
Kitchen Gardening	1	00	22	22	00	03	03	**25**
Grading and standardization	1	00	22	22	00	03	3	**25**
b) Fruits	-	-	-	-	-	-	-	**-**
III Soil Health and Fertility Management	-	-	-	-	-	-	-	**-**
IV Livestock Production and Management	-	-	-	-	-	-	-	**-**
V Home Science/Women empowerment								
Design and development of low/minimum cost diet	1	00	22	22	00	03	03	**25**
Value addition	1	00	22	22	00	03	03	**25**
Income generation activities for empowerment of rural Women	1	00	22	22	00	03	03	**25**
Women and child care	2	00	44	44	00	6	06	**50**
VI Agril. Engineering								
Secondary Agriculture	1	22	00	22	03	00	03	**25**
VII Plant Protection	-	-	-	-	-	-	-	**-**
Integrated Pest Management	3	66	00	66	09	00	09	**75**
Integrated Disease Management	2	44	00	44	06	00	06	**50**
Bio-control of pests and diseases	1	22	00	22	03	00	03	**25**
VIII Fisheries	-	-	-	-	-	-	-	**-**
IX Production of Inputs at site	-	-	-	-	-	-	-	**-**
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	**-**
XI Agro-forestry	-	-	-	-	-	-	-	**-**
XII Others (Pl. Specify)	-	-	-	-	-	-	-	**-**
TOTAL	**17**	**220**	**154**	**374**	**30**	**21**	**51**	**425**
(B) RURAL YOUTH	**00**	**00**	**00**	**00**	**00**	**00**	**00**	**00**
(C) Extension Personnel	-	-	-	-	-	-	-	**-**
Integrated Pest Management	1	22	00	22	03	00	03	**25**
TOTAL	**1**	**22**	**00**	**22**	**03**	**00**	**03**	**25**
G. Total (A+B+C)	**18**	**242**	**154**	**396**	**33**	**21**	**54**	**450**

B. OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Soil & Water Testing	1	22	00	22	03	00	03	**25**
Integrated nutrition management	2	44	00	44	06	00	06	**50**
Soil Fertility management	1	22	00	22	03	00	03	**25**
II Horticulture								
a) Vegetable Crops	-	-	-	-	-	-	-	**-**
Cultivation of Vegetable	1	00	22	22	00	03	03	**25**
b) Fruits	-	-	-	-	-	-	-	**-**
Cultivation of Fruit	1	00	22	22	00	03	03	**25**
III Soil Health and Fertility Management								
Soil fertility management	1	15	05	20	03	02	05	**25**
IV Livestock Production and Management								
V Home Science/Women empowerment								
Design and development of low/minimum cost diet	1	00	22	22	00	03	03	**25**
Value addition	6	00	111	111	00	39	39	**150**
Income generation activities for empowerment of rural Women	1	00	22	22	00	03	03	**25**
Rural Crafts	1	00	22	22	00	03	03	**25**
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	00	22	22	00	03	03	**25**
VII Plant Protection								
Integrated Pest Management	5	109	00	109	16	00	16	**125**
Safe use of Pesticide	2	42	00	42	08	00	08	**50**
VIII Fisheries	-	-	-	-	-	-	-	**-**
IX Production of Inputs at site	-	-	-	-	-	-	-	**-**
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	**-**
XI Agro-forestry	-	-	-	-	-	-	-	**-**
XII Others (Pl. Specify)	-	-	-	-	-	-	-	**-**
Irrigation management in *Rabi* crop	1	22	00	22	03	00	03	**25**
Total	**25**	**276**	**248**	**524**	**42**	**59**	**101**	**625**

C. Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Integrated Nutrition management	2	44	00	44	06	00	06	**50**
Soil Fertility management	1	22	00	22	03	00	03	**25**
Integrated Crop Management	1	22	00	22	03	00	03	**25**
Soil & Water testing	1	22	00	22	03	00	03	**25**
Production of organic inputs	1	22	00	22	03	00	03	**25**
Integrated Farming	1	22	00	22	03	00	03	**25**
II Horticulture								
a) Vegetable Crops								
Kitchen Gardening	1	00	22	22	00	03	03	**25**
Grading and standardization	1	00	22	22	00	03	03	**25**
Cultivation of Vegetable	1	00	22	22	00	03	3	**25**
b) Fruits								
Cultivation of Fruit	1	00	22	22	00	03	03	**25**
III Soil Health and Fertility Management								
Soil Fertility Management	1	15	05	20	03	02	05	**25**
IV Livestock Production and Management	-	-	-	-	-	-	-	-
V Home Science/Women empowerment								
Design and development of low/minimum cost diet	1	00	22	22	00	03	03	**25**
Designing and development for high nutrient efficiency diet	1	00	22	22	00	03	03	**25**
Value addition	7	00	133	133	00	42	42	**175**
Income generation activities for empowerment of rural Women	2	00	44	44	00	06	06	**50**
Rural Crafts	1	00	22	22	00	03	03	**25**
Women and child care	2	00	44	44	00	06	06	**50**
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	22	00	22	03	00	03	**25**
Secondary Agriculture	1	22	00	22	03	00	03	**25**
VII Plant Protection								
Integrated Pest Management	8	175	00	175	25	00	25	**200**
Safe use of Pesticide	2	42	00	42	08	00	08	**50**
Integrated Disease Management	2	44	00	44	06	00	06	**50**

Bio-control of pests and diseases	1	22	00	22	03	00	03	**25**
VIII Fisheries	-	-	-	-	-	-	-	**-**
IX Production of Inputs at site	-	-	-	-	-	-	-	**-**
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	**-**
XI Agro-forestry	-	-	-	-	-	-	-	**-**
TOTAL	**41**	**496**	**380**	**876**	**72**	**77**	**149**	**1025**
(B) RURAL YOUTH	-	-	-	-	-	-	-	**-**
TOTAL	**00**	**00**	**00**	**00**	**00**	**00**	**00**	**00**
(C) Extension Personnel								
Integrated pest management	1	22	00	22	03	00	03	**25**
Any other (Pl. Specify)								
Irrigation management in *Rabi* crop	1	22	00	22	03	00	03	**25**
Total	**2**	**44**	**00**	**44**	**06**	**00**	**06**	**50**
G. TOTAL (A+B+C)	**43**	**530**	**380**	**920**	**78**	**77**	**155**	**1075**

Details of training programmes attached in **Annexure –I**

3.5. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	02	42	6	48	2	-	2	**48**	**2**	**50**
KisanMela	01	500	100	600	30	3	33	**530**	**103**	**633**
Kisan Goshti	10	55	45	100	11	8	19	**66**	**53**	**119**
Exhibition	01	110	45	115	20	20	40	**130**	**65**	**195**
Film Show	21	300	100	400	-	-	-	**300**	**100**	**400**
Farmers Seminar	-	-	-	-	-	-	-	**-**	**-**	**-**
Workshop	-	-	-	-	-	-	-	**-**	**-**	**-**
Group meetings	15	55	11	66	05	03	08	**60**	**14**	**74**
Lectures delivered as resource persons	12	-	-	-	-	-	-	**-**	**-**	**-**
Newspaper coverage	03	-	-	-	-	-	-	**-**	**-**	**-**
Radio talks	02	-	-	-	-	-	-	**-**	**-**	**-**
TV talks	02	-	-	-	-	-	-	**-**	**-**	**-**
Popular articles	03	-	-	-	-	-	-	**-**	**-**	**-**
Extension Literature	05	-	-	-	-	-	-	**-**	**-**	**-**
Advisory Services	-	-	-	-	-	-	-	**-**	**-**	**-**

Scientific visit to farmers field	10	-	-	-	-	-	-	-	-	-
Farmers visit to KVK	07	-	-	-	-	-	-	-	-	-
Diagnostic visits	04	-	-	-	-	-	-	-	-	-
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	01	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
MahilaMandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	07	77	23	100	50	20	70	**127**	**43**	**170**
KrishiMohostva	01	-	-	-	-	-	-	-	-	-
KrishiRath	01	-	-	-	-	-	-	-	-	-
Pre Kharif workshop	01	-	-	-	-	-	-	-	-	-
Pre Rabi workshop	01	-	-	-	-	-	-	-	-	-
PPVFRA workshop	-	-	-	-	-	-	-	-	-	-
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Total	**110**	**1139**	**330**	**1429**	**118**	**54**	**172**	**1261**	**380**	**1641**

3.6. Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
OILSEEDS	1. Groundnut	GJG-22	20.00
	2. Sesame	G.TIL-5	10.00
PULSES	Chick pea	GG-5	10.00
OTHERS (Specify)	1. Cumin	GC-4	06.00
	2. Ajwain	GA-1	05.00

PLANTING MATERIALS :-Nil

Bio-products (Sales Only)

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
1	Beauveria	*Beauveria bassiana*	1300	6897
2	Trichoderma	*Trichoderma harzinium*	425	2300

LIVESTOCK :-Nil

4.LITERATURE TO BE DEVELOPED / PUBLISHED

Subject

- **Plant Protection :- Phemplets – 3**
- **Home Science :- Folder – 2**
- **Home Science :- Phemplets – 2**

A. KVK News Letter

Date of start **:-** 01-04-2019

Number of copies to be published **:-** On line Publish , JAU site

B. Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	3
2	Technical reports	1
3	News letters	3
4	Training manual all discipline	1
5	Popular article	5
6	Extension literature	5
	Total	**18**

C. Details of Electronic Media to be produced :-Nil

D.Success stories/Case studies identified for development as a case - Two (2)

a. Brief introduction
b. Interventions
c. Output
d. Outcomes
e. Impact
    i) Social economic
    ii) Bio-Physical
f. Good Action Photographs

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

A. Practicing Farmers - Nil
B. Rural Youth - Nil
C. In-service personnel - Nil

5.2.Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) Field level observations
ii) Farmer group discussions

For FLD:

i) New variety/technology
ii) Existing cropping system
iii) Problems at field level

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) -2017

Block	Villages
Morbi	Gorkhijadia
	Jepur,
	Bharatnagar,
	Laxminagar,
Tankara	Sajjanpar
	Hadmatiya
	Nasitpar
	Harbattiyali
	Nasitpar
Halwad	Devipur
	Devalia,

ii. No. of farm families selected per village : -
iii. No. of survey/PRA conducted : On hand
iv. No. of technologies taken to the adopted villages: 4
v. Name of the technologies found suitable by the farmers of the adopted villages:
1) White grub management in groundnut (IPM)

2) Wilt management in cumin (IDM)

3) Pink ball warm management in cotton (IPM)

4) Nutrient Management in cotton (INM)

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

To increase the production and productivity.

To increase farm income per area.

To reduce the cost of cultivation.

vii. Constraints if any in the continued application of these improved technologies-No

6. LINKAGES

6.1. Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage (pl. specify)
1.	Anandi sanstha	Training on organic farming and certification

6.2. Details of linkage with ATMA

a) Is ATMA implemented in your district. Yes/No **Yes**

S. No.	Programme	Nature of linkage
1	Field visit	Field visit for current field problems
2	Training	Training at village

6.3.E-linkage during 2019-20 :- Nil

6.4. Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	Training	Training at farmers field with staff of Horticulture department

6.5. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1	Training	Inland fish/Zinga cultivation

6.6.Additional Activities Planned including sponsored projects (ProCRA / Pro SOIL / NARI / DAESI / DAMU / DFI , etc.) / schemes during 2019-20 If involved. :- Nil

7. Convergence with other agencies and departments:- Nil

8. Innovator Farmer's Meet 2019 - 2020

Sl.No.	Particulars	Details
1	Are you planning for conducing Farm Innovators meet in your district?	Yes/ No **No**
2	If Yes likely month of the meet	**No**
3	Brief action plan in this regard	**No**

9. Farmers Field School (FFS) planned 2019-2020 :-Nil

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

1. Yellowing and drying of cotton.
2. White grub infestation in groundnut.
3. Salinity problem in Morbi and Maliya taluka.
4. Yellowing of cumin.
5. Stunt virus in chickpea.

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

1. Women farmers is very happy to the KVK open for this District .
2. Child Malnutriton problem is very high.
3. Pink ball warm problem in cotton.
4. Para wilting in cotton crop.
5. White grub problem in ground nut crop.
6. Sucking pest particularly thrips problem in cotton, onion chilly and garlic crop.

11. Utilization of hostel facilities :- Under Construction

Annexure - I

TRAINING PROGRAMME

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
Crop Production										
03/05/2019	PF	Improved cultivation practices for summer sesame & pulses.	2	22	00	22	03	00	03	**25**
25/10/2019	PF	Importance and criteria for organic farming	2	22	00	22	03	00	03	**25**
06/11/2019	PF	Importance of integrated farming	2	22	00	22	03	00	03	**25**
Horticulture										
08/05/2019	FW	Household food security by kitchen gardening	2	00	22	22	00	03	03	**25**
06/01/2020	FW	Benefits of Organic Vegetables Gardening	2	00	22	22	00	03	03	**25**
Livestock prod.- Nil										
Agril. Engg.										
22/07/2019	PF	- Importance of secondary agriculture	2	22	00	22	03	00	03	**25**
Home Sc.										
10/05/2019	FW	Malnutrition problems and solutions	2	00	22	22	00	03	03	**25**
05/07/2019	FW	Information of Income generating activity – Food & Agriculture	2	00	22	22	00	03	03	**25**
11/11/2019	FW	Home level processing of chili sauce	1	00	22	22	00	03	03	**25**
15/01/2020	FW	Iron deficiency and solution	2	00	22	22	00	03	03	**25**
02/02/2020	FW	Nutrition knowledge of Women & Child care	1	00	20	20	00	05	05	**25**
Plan prot.										
12/05/2019	PF	Seed treatment for pest management	2	22	00	22	03	00	03	**25**
19/07/2019	PF	Integrated insect pests management in groundnut and Cotton	2	22	00	22	03	00	03	**25**
02/10/2019	PF	Pest & Disease management in *rabi* crops	2	22	00	22	03	00	03	**25**
02/11/2019	PF	Role of predator and parasite in pest management.	2	22	00	22	03	00	03	**25**
05/12/2019	PF	Bio control pest and Disease	2	22	00	22	03	00	03	**25**

06/01/2020	PF	Storage of pest management	2	22	00	22	03	00	03	**25**
Fisheries – Nil										
Soil Health – Nil										

I) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
Crop Production										
05/05/2019	PF	Importance of soil analysis and method of soil sampling Importance of crop residue and their recycling.	2	22	0	22	03	00	03	**25**
06/07/2019	PF	Nutrient management in *summer* crops.	2	22	00	22	03	00	03	**25**
02/02/2020	PF	Importance and use of bio fertiliser	2	22	00	22	03	00	03	**25**
Horticulture										
08/07/2019	FW	Improve cultivation practice pomegranate and lemon	2	00	22	22	00	03	03	**25**
15/11/2019	FW	Production technology of *rabi* vegetables	2	00	22	22	00	03	03	**25**
Live Stock Production.- Nil										
Agril. Engg.										
04/05/2019	PF	Opération and maintenance of micro irrigation system	2	22	00	22	03	00	03	**25**
Home Sc.										
20/05/2019	PF	Income generating through Flower Making	2	00	22	22	00	03	03	**25**
07/07/2019	PF	Home level processing *of* tomato sauce	2	00	22	22	00	03	03	**25**
01/10/2019	PF	Meal Plans for a women performing hard physical work.	2	00	22	22	00	03	03	**25**
05/02/2019	PF	Skill Development Training-Candle making	2	00	22	22	00	03	03	**25**
Plant Protection										
05/06/2019	PF	Store grain pest management and precautions.	2	22	00	22	03	00	03	**25**
05/07/2019	PF	Management of insect pest & disease in *kharif* crops.	2	22	00	22	03	00	03	**25**
06/02/2020	PF	Safe and judicious use of pesticide	2	22	00	22	03	00	03	**25**
Fisheries – Nil										
Soil health										
06/06/2019	PF/FW	Impotence of Soil Health	2	22	00	22	03	00	30	**25**
Any others										

09/10/2019	PF	Irrigation management in rabi crop	1	22	00	22	03	00	03	**25**

ii) Vocational training programmes for Rural Youth - Nil

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
10/06/2019	PF	Integrated pest management	1	34	03	37	03	00	03	**40**

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Plant Protection	ATMA-Morbi	PF	Preparation of NSKE and its usefulness in Agriculture crops.	1	22	00	22	03	00	03	**25**
Plant Protection	ATMA-Morbi	PF	Safe and Judicious use of inseceticide for presevation of predator, parasite and honey bee.	1	22	00	22	03	00	03	**25**
Plant Protection	ATMA-Morbi	PF	Different IPM modeuls for relavant crops.	1	22	00	22	03	00	03	**25**
Plant Protection	ATMA-Morbi	PF	Insect & disease management through seed treatment.	1	22	00	22	03	00	03	**25**
Home-Scie.	ATMA-Morbi	PF	Make a Kaju-Karela Pickles	1	00	22	22	00	03	03	**25**
Home-Scie.	ATMA-Morbi	PF	Home level Processing of Chili sauce	1	00	22	22	00	03	03	**25**
Home-Scie.	ATMA-Morbi	PF	Home level Processing of Tomato sauce	1	00	22	22	00	03	03	**25**
Home-Scie.	ATMA-Morbi	PF	How to make Amla Sharbat & Juice	1	00	22	22	00	03	03	**25**
Home-Scie.	ATMA-Morbi	PF	Make a Jamfal (Guava) Juice	**1**	00	22	22	00	03	03	**25**
			Total	**9**	**88**	**110**	**198**	**12**	**15**	**27**	**225**
b) Sponsored research programme – Nil											
c) Any special programmes – Nil											

Annexure - II

Budget - Details of budget utilization (2018-19) up to 31 March 2019

No.	Particulars	Sanctioned	Released	Expenditure
13.1	**Recurring Contingencies**			
13.1.1	**Pay & Allowances**	**33.01439**	**28.01439**	**22.40843**
13.1.2	**Traveling allowances**	**0.71217**		**0.32729**
13.1.3	**Contingencies**			
13.1.4.1	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	**02.50000**		**02.91730**
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees	**05.16936**	**06.68153**	**05.74724**
D	Training material			
E	Frontline demonstration except oilseeds and pulses			
F	On farm testing			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
13.1	**Total Recurring**	**41.39592**	**34.69592**	**31.40026**
13.2	**Non-Recurring Contingencies**	**-**	**-**	**-**
13.2.1	**Works**	**155.00000**	**22.00000**	**21.09823**
13.2.2	**Equipments including SWTL & Furniture**	**08.00000**	**-**	**-**
13.2.3	**Vehicle** (Four wheeler/Two wheeler, please specify)	**08.00000**	**-**	**-**
13.2.4	**Library**	**-**	**-**	**-**
13.2	**Total Non Recurring**	**171.00000**	**22.00000**	**21.09823**
13.3	**REVOLVING FUND**	**07.11699**	**07.11699**	**01.16740**
13.4	**GRAND TOTAL (A+B+C)**	**219.51291**	**63.81291**	**53.66589**

Details of Budget Estimate (2019-20) based on proposed action plan

No.	Particulars	BE 2019-20 proposed (Rs.)
14.1	**Recurring Contingencies**	
14.1.1	**Pay & Allowances**	**50.00**
14.1.2	**Traveling allowances**	**00.80**
14.1.3	**Contingencies**	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	**05.50**
B	POL, repair of vehicles, tractor and equipments	**03.50**
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	**01.50**
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	**00.50**
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	**01.00**
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	**00.75**
G	Training of extension functionaries	**00.50**
H	Maintenance of buildings	**-**
I	Establishment of Soil, Plant & Water Testing Laboratory	**-**
J	Library	**00.25**
14.1	**TOTAL Recurring Contingencies**	**13.50**
14.2	**Non-Recurring Contingencies**	**08.00**
14.2.1	**Works**	**147.00**
14.2.2	**Equipments including SWTL & Furniture**	**03.00**
14.2.3	**Vehicle** (Four wheeler/Two wheeler, please specify)	**09.00 Four Wheeler** **00.70 Two Wheeler**
14.2.4	**Library** (Purchase of assets like books & journals)	**-**
14.2	**TOTAL Non-Recurring Contingencies**	**167.70**
14.3	**REVOLVING FUND**	**-**
14.4	**GRAND TOTAL**	**181.20**