

KRISHI VIGYAN KENDRA, SURAT

1. Specialty of KVK: Eco-friendly KVK

2. Present staff position:

Sr. No.	Name of Post	Filled	Vacant
1	Programme Coordinator	1	--
2.	Subject Matter Specialists	6	--
3.	Farm Manager	1	--
4.	Programme Assistant	--	1
5.	Computer programmer	--	1
6.	Account Officer	--	1
7.	Field Assistant	--	1
8.	Steno	--	1
9.	Drivers	--	2
10.	Supporting staff	--	2
	Total	8	8

3. Major thrust area

1. Increase productivity of major crops e.g. sugarcane, paddy, pigeon pea, sorghum
2. Dissemination of production technology of fruits and vegetables and their post harvest management as well promotion of precision farming.
3. Popularize eco-friendly crop production with special reference to IPDM & INM.
4. Increasing milk production by dissemination of latest technologies.
5. Imparting skill oriented training to the tribal women for sustaining their livelihood.
6. Management of natural resources including salinity management
7. Small scale farm mechanization in tribal area.

4. Operational Clusters

Sr. No	Name of Cluster	Number of villages	Name of Village
1.	Mahuva	4	1. Tarkanai 2. Lasanpore 3. Aagaldhara 4. Kosh
2.	Mandvi	3	1. Gamtalav 2. Salaiya 3. Moritha
3.	Umarpada	3	1. Kolvan 2. Moti-devrupen 3. Umarda
4	Mangrol	3	1. Kantvav 2. Pataldevi 3. Mandan
5	Olpad	3	1. Mandroi 2. Asnad 3. Karanj-nesh
6	Kamrej	2	1. Dhoranpardi 2. Kholeswar
7	Bardoli	1	1. Ruva 2. Bharampore

5. Training programme

Sr. No.	Discipline	Total on campus				Total off campus				Grant Total
		I	II	III	IV	I	II	III	IV	
1.	Crop Production	2	-	1	-	2	3	2	2	12
2.	Horticulture	1	1	1	-	2	2	3	2	12
3.	Home Science	1	1	1	-	3	2	2	2	12
4.	Animal Science/Fisheries	-	1	1	2	2	3	3	2	14
5.	Plant Protection	1	1	1	-	2	3	2	2	12
6.	Extension Education	-	1	-	2	1	1	2	2	9
7.	Others	2	2	2	2	2	2	2	2	16
	Total	7	7	7	6	14	16	16	14	87

5.1 On campus Training (for practicing farmers, farm women and rural youths)

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants
QUARTER-I					
Crop Production	Water conservation technology in rainfed farming	April-14	1	25	PF
Crop Production	Scientific cultivation of Kharif crops	May-14	1	25	PF
Plant Protection	Integrated Pest and disease management in Paddy	June-14	1	25	PF
Horticulture	Protected cultivation of horticultural crops	May-14	1	25	PF/RY
Home Science	Preparation of different types of Pickles	April-14	1	25	FW
QUARTER-II					
Animal Science	Care and management of pregnant animals	Sept-14	1	25	PF/FW
Horticulture	Organic horticulture farming	July-14	1	25	RY/PF
Plant Protection	Integrated disease management in organic farming	Aug-14	1	25	PF
Extension Education	Banking credit procedure with special reference to KCC	July-14	1	25	PF
Home Science	Importance of Storage of Grains	July-14	1	25	FW
QUARTER-III					
Crop Production	Production of organic inputs- composting and vermicompost	Oct- 14	1	25	RY
Horticulture	Low cost fruit and vegetable preservation techniques	Nov-14	1	25	RY/FW
Plant Protection	Integrated Pest and disease management in Brinjal	Oct-14	1	25	PF
Home Science	Balanced diet for Pregnant women and Children	Dec-14	1	25	FW
Animal Science	Cultivation practices of green fodder	Nov- 14	1	25	PF
QUARTER-IV					
Animal Science	Health and hygiene management of dairy animals	Jan-15	1	25	PF
Fisheries	Pond preparation in fish farming	Jan-15			
Extension Education	Formation of farmers club and its importance	Feb-15	1	25	PF
Extension Education	Use of ICT in agriculture	Mar-15	1	25	EF/RY

5.2 Off campus training (for farmers, farm women and rural youths)

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants
QUARTER-I					
Crop Production	Nursery raising for paddy	May-14	1	25	PF
	Scientific cultivation of <i>kharif</i> crops	June-14	1	25	PF
Horticulture	Scientific cultivation of Cucurbits and creeper vegetables	May-14	1	25	FW
Horticulture	Scientific cultivation of pointed gourd (<i>parval</i>)	June-14	1	25	PF
Plant Protection	Integrated Pest and Disease management in Paddy	June-14	1	25	PF
	Integrated Pest and Disease management in <i>Parval</i>	June-14	1	25	PF
Extension Education	Importance of Farm Science Club and its formation	April-14	1	25	PF
Animal Science	Care and management of animals in summer	April-14	1	25	FW
	Importance and schedule of Vaccination in animal	June-14	1	25	PF
Home Science	Low cost nutritious foods available for children	May-14	1	25	FW
	Formation of SHGs	June-14	1	25	FW
	Value addition in papaya	June 14	1	25	FW
QUARTER-II					
Crop Production	Integrated nutrient management in Kharif crops	July-14	1	25	RY
	Weed management in <i>kharif</i> crops	Aug-14	1	25	FW
	Scientific cultivation of <i>Rabi</i> crops	Sept-14	1	25	PF
Horticulture	Scientific cultivation of banana	Aug-14	1	25	PF
	Scientific cultivation of brinjal	Sept-14	1	25	FW
Plant Protection	Integrated insect pests and disease management in Paddy	July-14	1	25	PF
	Low cost technology for pests and disease management	Aug-14	1	25	PF
	Integrated insect pests and disease management in Sugarcane	Sept-14	1	25	PF

Extension Education	Value addition and marketing of farm produce	Sept-14	1	25	PF
Animal Science	Food toxicity in animals and their management	Aug-14	1	25	FW
	Care and management of newly born calf	Sept-14	1	25	FW
Fisheries	Water quality management in fish culture	Sept-14	1		
Home science	Importance of Soybean in our daily diet	Aug-14	1	25	FW
	Value addition in tomato	Sept-14	1	25	FW
QUARTER-III					
Crop Production	Integrated nutrient management in <i>Rabi</i> crops	Oct-14	1	25	PF
	SSI - a new sugarcane cultivation technique	Oct-14	1	25	PF
Horticulture	Importance of mulching in vegetable crops	Oct-14	1	25	PF
	Scientific management of banana crops	Nov-14	1	25	PF
	Scientific cultivation of Okra	Dec-14	1	25	PF
Plant Protection	Use of bio pesticides for the management of plant diseases	Oct-14	1	25	PF
	Integrated pest and disease management in banana	Oct-14	1	25	PF
Extension Education	Marketing of agricultural products	Nov-14	1	25	PF
	Kisan Credit Card : importance and procedure	Dec-14	1	25	PF
Animal Science	Fodder management in animals	Oct-14	1	25	PF
	Disease prevention and treatments in animal	Nov-14	1	25	PF
	Poultry management	Dec-14	1	25	PF
Home Science	Value addition in tomato	Oct-14	1	25	FW
	Benefits of Vegetables in daily diet.	Dec-14	1	25	FW
QUARTER-IV					
Crop Production	Scientific cultivation of Summer crops	Jan-15	1	25	PF
	Integrated nutrient management in summer crops	Feb-15	1	25	PF

Horticulture	Water management in vegetable crops	Jan-15	1	25	PF
	Horticultural nursery preparation and management	Feb-15	1	25	FW
Plant Protection	IPDM in pigeon pea and groundnut	Jan-15	1	25	FW
	Biological control of crop pest and diseases	Jan-15	1	25	RY
Animal Science	Cleanliness of animal shed and clean milk production	Jan-15	1	25	PF
	Disease prevention and treatment in animals	Feb-15	1	25	FW
Home Science	Importance of storage grains	Jan-15	1	25	FW
	Importance of preservation techniques in fruits and vegetables	Mar-15	1	25	FW
Extension Education	Marketing strategy for agricultural produce	Feb-15	1	25	PF
	Use of ICT in agriculture	Mar-15	1	25	PF

PF=Practicing farmers, FW=Farm women, RY=Rural youth, EF=Extension functionaries

5.3 Vocational trainings

Subject	Title of training	Month	Duration (days)	No. of participants	Type of Participants
Crop Production	Micro irrigation system	Aug - 14	5	20	RY
Horticulture	Low cost preservation technology of fruits and vegetables	Nov 14	5	20	RY
	Value additions in fresh flowers	Sept 14	5	20	RY
	Preparation of herbal gulal	Feb 15	2	20	TW
Plant protection	Mushroom cultivation	Jan-15	5	20	RY
Animal Husbandry	Establishment of dairy unit	Dec -14	5	20	RY
Home Science	Preparation of Mari masala	May-14	3	20	FW

6. Front line demonstrations during 2014-15

Crop Production	Season	Cluster	No. of FLDs	Area (Ha.)	Critical Inputs
Paddy (TP): Popularize improved variety (GNR – 3)	<i>Kharif</i>	Olpad Mahuva Mandvi	20	8	Seeds, bio fertilizers
Paddy (TP): Popularize improved variety (NAUR - 1)	<i>Kharif</i>	Mangrol Umarpada	20	8	Seeds, bio fertilizers
Popularize SIRA technology in Paddy	<i>Kharif</i>	Mandvi	5	2	Briquettes
Popularize SRI technology in Paddy	<i>Kharif</i>	Umarpada	5	2	Seed, organic fertilizers,
Paddy: Popularize improved variety GR 13	<i>Kharif</i>	Olpad	10	4	Seeds, bio fertilizers
Cotton: Popularize G Cot-Hybrid 6 (BG-II)	<i>Kharif</i>	Umarpada Mangrol	20	8	Seeds, bio fertilizers
Cotton: Popularize G Cot-Hybrid 8 (BG-II)	<i>Kharif</i>	Umarpada Mangrol	20	8	Seeds, bio fertilizers
Soybean: Popularize improved variety (JS-335)	<i>Kharif</i>	Umarpada Mangrol	20	8	Seed, bio fertilizers
Sorghum: Popularize improved variety (GJ-42)	<i>Rabi</i>	Mangrol Umarpada	20	8	Seeds, bio fertilizers
Mung bean: Popularize improved variety (Meha)	Summer	Mangrol Umarpada	20	8	Seeds, bio fertilizers
Horticulture:					
INM in Pointed gourd	Kharif	Olpad Mahuva	20	4.00	Organic fertilizers, bio fertilizers
Fertilizer management and spacing in okra	Rabi	Mahuva	10	2.00	Bio-fertilizer, Organic fertilizers Micronutrients, chemical fertilizer
Kitchen Gardening	Rabi	Umarpada Mangrol	20	--	Seed, seedlings, hand tools
INM in brinjal	Rabi	Mndvi	20	4.0	Bio-fertilizer, Organic fertilizers Micronutrients
INM in Banana	Kharif	Kamrej	20	5.00	Certified organic products, Micronutrients
Terrace gardening in urban area	kharif	Surat city	25	--	Planting material, cultivation bags

Plant protection					
Integrated pest and disease management in Brinjal	Rabi	Mandvi Mahuva	20	4	Bio pesticides Fungicides, Pheromone trap,
Integrated pest and disease management in Okra	Rabi	Mahuva	10	2	Bio pesticides Fungicides, Pheromone trap,
Integrated pest and disease management in Parval	Rabi	Mahuva Olpad	20	4	Bio pesticides Fungicides
Integrated pest and disease management in Paddy	Kharif	Olpad	20	8	Pheromone trap, <i>Trichocard</i> , Bio pesticides
Integrated disease management in Banana	Kharif	Kamrej	10	4	Bio pesticides Fungicides
Management of Mango Fruit fly	Rabi Summer	Mahuva Kamrej	30	4	Fruit fly Traps
Management of borers by release of <i>Trichogramma</i> in Sugarcane	Rabi Summer	Kamrej	10	4	<i>Trichogramma</i>
Management of Groundnut Stem rot	Rabi Summer	Mandvi, Umarpada	10	4	Bio pesticides Fungicides
Management of Pigeon pea wilt	Rabi Summer	Mandvi, Umarpada	10	4	Bio pesticides Fungicides
Application of Carbendazim resistant <i>Trichoderma</i> in Parval to control wilt	Kharif	Mahuva	20	8	<i>Trichoderma</i>
Application of Salinity resistant <i>Trichoderma</i> in Parval to control wilt	Kharif	Olpad	20	8	<i>Trichoderma</i>

Animal Husbandry:

Sr. No	Technology to be demonstrated	Objective	No. of Farmer	No of Animals	Observation	Critical inputs
1.	Mineral Mixture	To popularize Mineral Mixture Supplementation	20	20	Service period (day)	Mineral mixture
2.	Concentrate feeding & Deworming to kid	To popularize Concentrate feeding method	20	kid-20	Body at age at 1 st , 3 rd , & 6 th , months	Concentrate + Deworming tablets
3.	Teat dipping/ Sprayer	To prevent Mastitis	20	CB-cow-20	% of Mastitis	SAFKIT®
4.	Mineral mixture in fish pond (Fisheries)	To improve the growth of fish	10	10 units	Growth of fish/ Yield	Mineral mixture

Method Demonstration

Sr. No	Technology to be demonstrated	Objective	No. of Farmer	Types & No of Animals	Critical inputs
1.	Urea treatment to Paddy straw	To introduce urea treatment	10	CB-cow-10	Urea + plastic cloth

Home Science:

Home Science	Season	Cluster	No. of FLD	No. of Village	Critical Inputs
Use of Improved sickles	<i>Kharif.</i>	Umarpada Mangrol	20	2	Sickles
Food grains storage	<i>Seasonal</i>	Umarpada Mangrol Mandvi	30	2	Plastic begs

7. On farm testing (On going)

Discipline	Title
Plant protection	Assessment of stem application method of insecticide for the management of sucking pest in Okra
Horticulture	Validation of kitchen garden model suggested by Navsari Agricultural University
Home science	Evaluation of Low cost high calorie diets made from locally available food materials for Pre-school children.
Crop production	Assessment of aerobic rice in Olpad block of Surat District
Animal science	Nutritional enrichment in local grass <i>Fatedu</i>

7.1 On Farm testing : New

1. Crop production:

1.	Title	:	Effect of trimming operation in sugarcane yield
2.	Problem diagnose/defined	:	1. Low initial tillering 2. Low production
3.	Details of technologies selected for assessment /refinement	:	T ₁ – Farmers method T ₂ - Recommended practice T ₃ –Trimming of first shoot
5.	Season	:	Rabi – 2015
4.	No. of farmers and area	:	5 (0.24 ha each)
5.	Source of technology	:	Farmers innovation
6.	Production system thematic area	:	Sugarcane-Paddy
7.	Thematic area	:	Crop production
8.	Performance of the Technology with performance indicators	:	No. of millable canes Yield of sugarcane Economics

9.	Final recommendation for micro level situation	:	--
10.	Constraints identified and feedback for research	:	--
11.	Process of farmers participation and their reaction	:	Farmers will be selected from KVK clusters.

2. Horticulture:

1.	Title	:	Assessment of enriched banana sap on yield and quality of Brinjal
2.	Problem diagnose/defined	:	Low production in Brinjal
3.	Details of technologies selected for assessment /refinement	:	T1- Farmers practice T2- Monthly application of 1.5% banana sap through drenching T3- 1.5% foliar spray twice during peak flowering T4- T2 + T3
4.	No. of beneficiaries	:	5
5.	Season	:	Rabi-2014-15
6.	Source of technology	:	NAU, Navsari
7.	Thematic area	:	Yield improvement
8.	Performance of the Technology with performance indicators	:	Yield and quality
9.	Final recommendation for micro level situation	:	--
10.	Constraints identified and feedback for research	:	Lower yield of Brinjal in area
11.	Process of farmers participation and their reaction	:	Farmers from KVK clusters

3. Plant protection:

1.	Title	:	Assessment of effective methodology for the management of Banana Pseudo stem weevil
2.	Problem diagnose/defined	:	1. Heavy incidence of pseudostem weevil 2. Reduction in bunch weight
3.	Details of technologies selected for assessment /refinement	:	T ₁ : Control (farmers method) T ₂ : Stem injection with Triazophos T ₃ : Longitudinal Split stem traps (25 traps/vingha) swabbed with <i>Metarhizim</i> (20 gm/trap) T ₄ : Longitudinal Split stem traps (25 traps/vingha) swabbed with <i>Beauveria</i> (20 gm/trap)
4.	No. of beneficiaries	:	5
5.	Season	:	Khariif
6.	Source of technology	:	NRC on banana
7.	Thematic area	:	Plant protection

8.	Performance of the Technology with performance indicators	:	1. Reduction in infestation 2. Increase in the yield
9.	Final recommendation for micro level situation	:	--
10.	Constraints identified and feedback for research	:	--
11.	Process of farmers participation and their reaction	:	Farmers from KVK clusters.

5. Animal science:

1.	Title	:	Use of Chelated minerals in the diet of crossbred HF cows.
2.	Problem diagnose/defined	:	Low milk yield, Temporary infertility, poor reproductive performance in crossbred HF cows
3.	Details of technologies selected for assessment /refinement	:	T ₁ – Feeding of locally available feeds and fodders T ₂ - T ₁ + Chelated minerals @ 30 gm/cow/day for 120 days
4.	No. of Animals	:	No. of animals: T ₁ – 10 Control: T ₂ – 10
5.	Season	:	Rabi-2014-15
6.	Source of technology	:	NDRI, Karnal
7.	Thematic area	:	Animals Nutrition
8.	Performance of the Technology with performance indicators	:	Duration: 4 month Milk yield
9.	Final recommendation for micro level situation	:	--
10.	Constraints identified and feedback for research	:	Due to high cost of Chelated mineral, it can be included in the diet of high yielding animals only
11.	Process of farmers participation and their reaction	:	Animals will be selected from KVK clusters.

6. Home science:

1.	Title	:	Response of adolescent girls to iron rich feed in relation to Hemoglobin level
2.	Problem diagnose/defined	:	Low level of Hemoglobin in adolescent girls
3.	Details of technologies selected for assessment /refinement	:	T ₁ : Control T ₂ : Recommended Iron supplement capsules T ₃ : Iron supplement capsules + Iron rich foods
4.	No. of Girls	:	No. of Girls: T ₁ – 10, T ₂ – 10, T ₃ -10
5.	Source of technology	:	Dept. of Health, Govt. of Gujarat.
6.	Thematic area	:	Woman and child care
7.	Performance of the Technology with performance indicators	:	Hb percentage in blood
8.	Final recommendation for micro level situation	:	--
9.	Constraints identified and feedback for research	:	Lack of awareness about nutritional management/ anemia. Location specific iron rich diet need to be formulated.
10.	Process of farmers participation and their reaction	:	Girls will be selected from KVK clusters.

8. Farm Plan

Sr. No.	Name of Crop	Season	Area (ha.)	Remarks
1	Soybean	<i>Kharif</i>	2.00	seed production
2	Moong	<i>Rabi</i>	1.00	Seed production
3	Moong	<i>Summer</i>	1.00	Seed production

9. Extension Activities

Sr. No.	Activity	Total
1.	Field days	5
2.	Kisan mela / Farmers day/ Agricultural exhibition participation	5
3	Scientist farmers interaction/Kishan goshthi,shibir seminar etc	15
4	Celebration of special days	4
5.	Diagnostic services	As per need
	(i)Farmers visit to KVK	-
	(ii)Scientists visits to farmers fields	-
6.	Lecture to be delivered in other programme	As per need
7.	Soil & water sample analysis	-
8	Publication	-
9	(i) Research Paper	-
	(ii)Popular articles	-
	(iii) Folders	-
10	Communication media	
	(i) Radio talk	As per allotment
	(ii) TV / Film show	45
	(iii) News paper coverage	As per need
	(iv) Telephone helpline	As per need
11	Animal health camp	4

10 : Requirements of works:

Works	Amount (Lakhs)	Amount to be released for 2014-15 (Lakhs)
Administrative building	80.5	25
Farmers hostel	45.75	15
Staff quarters	60	20
Land leveling	2	2
Bore well	5	5
Irrigation/ drainage system	2	2
Fencing / compound wall	20	20
Vehicle and implement shed	10	10
Total	225.25	100

11. Requirements of office and farm equipments/ implements for 2014-15

Sl. No	Name of the Equipment	Quantity available	Requirement		Justification
			Quantity	Amount (L)	
A	OFFICE EQUIPMENTS				
	Xerox Machine	0	1	Rs.1.00	For photo copying the documents
ii)	Computer with accessories	0	4	Rs.3.00	For reporting and presentation prepare
v)	Fax Machine	0	1	Rs.1.00	For receiving and sending documents
vi)	EPABX System	0	1	Rs.1.00	For inter connecting staff
vii)	Refrigerator	0	1	Rs.0.50	For keeping the disease samples
viii)	Water cooler with RO system	0	1	Rs.1.00	Providing cool & pure water to trainees
ix)	Inverter	0	1	Rs.0.50	For uninterrupted power supply
x)	Split air conditioner	0	2	Rs.1.00	For cooling training hall during summer
xi)	Vacuum cleaner	0	1	Rs.0.10	For cleaning office and training hall
xii)	Exhibition hall- Display material	0	1	Rs.2.00	For exhibiting various technology
xiii)	Gas connection	0	1	Rs.0.05	For training on preservation
xiv)	Mixer and grinder	0	1	Rs.0.10	For training on preservation
B	AV AIDS				
i)	Digital movie Camera	0	1	Rs.0.50	For documenting by taking movie
ii)	LCD Projector with laptops	0	2	Rs.2.50	For presenting material on screen
iii)	LED TV with DVD Player	0	1	Rs.0.75	For showing movie to participants
iv)	Public Address System	0	1	Rs.0.50	For addressing public during meeting
v)	Digital still camera	0	1	Rs.0.10	For taking photography
vi)	Sound system for training hall	0	1	Rs.0.25	For efficient delivery of lectures
viii)	Portable sound system	0	1	Rs.0.25	For addressing small groups
C	FARM IMPLEMENTS				
i)	Tractor with implements	1	0	Rs.0.00	
ii)	Power Tiller	0	1	Rs.2.50	For cultural operation in field
iii)	Trailer	0	1	Rs.2.00	For caarrying farm produce
iv)	Seed drill	0	1	Rs.0.75	For sowing seeds
v)	Multi crop thresher	0	1	Rs.0.75	For threshing crops
vi)	Hand rotary weeder	0	1	Rs.0.75	For weeding & interculturing
vii)	Ridger	0	1	Rs.0.50	For making ridges
viii)	V- ditcher	0	1	Rs.0.50	Making ditches
ix)	Chiesal plough	0	1	Rs.0.25	For braking hard pan
x)	Bag sewing machine	0	1	Rs.0.25	For sewing seed bags
xi)	Power sprayer	0	1	Rs.0.50	For spraying pesticides on crops
xii)	Oil engine	0	1	Rs.0.50	For irrigation purpose
xiii)	Winnower	0	1	Rs.0.15	For cleaning the harvested produce
xiv)	Scale balance	0	1	Rs.0.25	For weing the fertilizers and produce
xiv)	Brush cutter	0	1	Rs.0.35	For harvesting sorghum, wheat etc.
D	LAB.EQUIPMENT				
iv)	Electronic balance	0	1	Rs.0.50	For weighing chemicals
2	FURNITURE & FURNISHING				
i)	Office	0	1	Rs.10.00	For office staff and storing documents
TOTAL				Rs.36.60	

12. Budget Requirements for KVK Surat:

Sr. No.	Head	Amount Rs in lakhs
A.	Recurring	
1	Pay and allowances	69.00
2	Travelling Allowances	3.00
3	Contingencies	15.00
	Total A	87.00
B	Non recurring	
1	Works	100
2	Equipments	36.60
3	Vehicle	--
4	Library	0.25
	Total B	136.85
	Grand total	223.85

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