



**ICAR-Agricultural Technology Application Research Institute
Zone-VIII, Pune**



**Online Annual Zonal Workshop of Maharashtra, Gujarat and Goa
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Annual Progress Report 2019-20

-: Presented by :-

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KVK, Surat**

KVK Profile

Location map of KVK



S.N.	Particular	Area (Ha)
1	Cereals	129184
2	Vegetables	38077
3	Fruit Crops	21691
4	Flower Crops	749

- ❖ Population: 6079231 (SC-3.75%, ST-18.88%, Gen.:77.37%)
- ❖ Blocks: 9+1=10
- ❖ Villages :713 Gram Panchayat: 572
- ❖ Agroclimatic Zone: II- South Gujarat Zone
- ❖ AES: I to IV
- ❖ Total land : 432698 ha
- ❖ Cultivable: 327296 ha
- ❖ Forest: 36680 ha
- ❖ Net Sown area: 285671 + Area >ones: 30016= Total sown area: 315687
- ❖ Irrigation: 71.04%, Umarpada:10.87%, Palsana, kamrej, bardoli >90%
- ❖ Farmers: 140002 (Marginal: 54450, Small: 38110, Big: 47442)
- ❖ (SC: 4392, ST: 37592, Gen.: 97419)
- ❖ Rain fall (2019) :2099 mm
- ❖ Crops: Sugarcane, Paddy, Pigeon pea, Soybean, Sorghum, Pulses
- ❖ Vegetables: Okra, brinjal, vine crops
- ❖ Fruit crops : Banana, Mango, Papaya

Information about major crops, cropping systems, enterprises and technical staff available in KVK

Major crops and enterprises & Cropping Sequence

Major crops:
Field crops:
 Cotton, Paddy, Pigeon Pea, Green Gram, Black Gram, Sorghum, Maize, Sugarcane
Horticultural crops:
 Banana, Mango and Vegetables

Cropping Pattern :

Irrigated areas:
 Banana-Paddy,
 Sugarcane-Paddy,
 Orchards

Rain fed areas:
 Mix cropping
 Pulses
 Paddy- gram
 Paddy- sorghum
 Sorghum
 Maize

Major farming system

S. N.	Farming systems / enterprises
1	Agriculture farming systems
2	Agri - Horti farming systems
3	Agri – Horti -Dairy farming systems
4	Agri - Silviculture farming systems

Major crops



STAFF POSITION

S.N	Sanctioned	Filled	Vacant
1	Senior Scientist and Head	01	--
2	Scientists	05	01
3	Programme Assistant	01	--
4	Farm manager	01	--
5	Computer Programmer	01	--
6	Accountant / Superintendent	01	--
7	Stenographer	01	--
8	Supporting staff	--	04
	Total	11	05

Targets and Achievements of major activities 2019-20

S. No.	Activity	Target		Achievements	
		No. of programmes	No. of farmers	No. of programmes	No. of farmers
1	OFTs	6	30	6	30
2	FLDs	25	450	29	592
3	Trainings	72	1785	90	3124
	PF	65	1650	82	2862
	RY	5	105	3	100
	EF	2	30	5	162
	Skill Trainings	0	0	0	0
4	Extension Activities	18	5438	22	37923



Most significant achievements of KVK

Significant Achievements of KVK

- Mass trapping of fruit fly by using Methyl Eugenol and Cue-lure (NAUROJI fruit fly trap) in mango, sapota, guava and vegetables covering 550 ha of 85 villages benefitting nearly 1200 farmers.
- Popularized and distributed organic products of Navsari Agricultural University (*Rhizobium*, *Azotobacter*, PSB, KMB, OLN-NOVEL, *Trichoderma* and *Pseudomonas*) in different crops and achieved horizontal expansion in 5600 ha area covering 18500 farmers of 280 villages.
- Nearly 2500 people in city area were trained for terrace gardening & kitchen waste composting. Among them, 1850 have started successfully and gaining approximately Rs. 12500/ Year/Garden.
- Popularize HYV of Paddy (NAUR-1 & GNR-3), Gram (GG-4 & GG-5), Pigeonpea (Vaishali), Greengram (Meha) and Soybean (NRC-37) with horizontal expansion of 1250, 160, 1000, 250 and 190 ha. area benefitted near about 4250, 630, 3225, 945 and 760 farmers, respectively.
- Approximately 1200 farmers of 28 villages were adopted SRI technology of transplanted paddy and gain 22 per cent increase in production.



On Farm Trials

OFT-1 : Use of KNO₃ and Novel OLN to increase production in Cotton.

- Problem Identified : Low yield in cotton.
- Technologies assessed : Use of KNO₃ & Organic Liquid Nutrient
- Year of assessment : 2019-20
- Source of technology : MCRS, NAU, Surat
- No. of trials : 10
- Critical inputs supplied : Seed G.Cot.Hy-12(Bt), KNO₃ & OLN
- Farmers reactions / Feedback : Both KNO₃ & OLN increases number of balls & ball weight. But OLN is slightly better than KNO₃

Performance of technologies assessed :

Technology options	No. of Balls/ Plant	Ball Weight(g)	Yield (q/ha)	B:C Ratio
Farmers Practice T1- No Use of KNO ₃ or OLN	32	3.28	21.50	2.68
Assessed Practice-I T-2 : 3 % KNO ₃ Spraying at squaring, flowering and ball formation stage (2010)	34	3.45	23.40	2.78
Assessed Practice -II T3- 2 % NOVEL OLN at flowering (2018)	35	3.34	23.71	3.02



OFT 2: Assessment of fungicide for the management of grain discoloration in paddy

- Problem Identified : Low productivity and deterioration in quality of grain.
- Technologies assessed : Three spray of Propiconazole 25 EC 0.025% (10 ml/10 lit. water)
- Year of assessment : 2019-20
- Source of technology : MRRS, NAU, Navsari(2016)
- No. of trials : 05 (Mahuva Block)
- Critical inputs supplied : Propiconazole 25 EC 0.025%
- Farmers reactions / Feedback : Reduce the discoloration of grain & increase the yield.

Performance of technologies assessed :

Technology options	% infestation	Yield (q/ha)	B:C Ratio
Farmers Practice T1- No Use of Fungicide	12	35.30	2.99
Assessed Practice T-2 : Three spray of Propiconazole 25 EC 0.025% (10 ml/ 10 lit. water). First spray - initiation of disease Second and third spray- After 10 days' interval	3	41.10	3.31



OFT 3 : Assessment of pheromone trap technology for the management of *Leucinodes orbonalis* in Brinjal

- Problem Identified : Poor quality of fruits due to infestation of fruit & Shoot borer.
- Technologies assessed : Installation of pheromone traps and removal of infected shoots
- Year of assessment : 2019-20
- Source of technology : AAU, Anand and TNAU, TN
- No. of trials : 05
- Critical inputs supplied : Pheromone Trap
- Farmers reactions / Feedback : Reduce the per cent infestation and increase the fruit quality

Performance of technologies assessed :

Technology option	% Infestation	Average yield (q/ha)	Net Return Rs./ha	BCR
T1: Farmers practices as injudicious and indiscriminate use of chemical pesticides	8.0	165.30	237540	4.96
T2: Installation of pheromone traps @ 40 traps/ha (AAU, Anand)	4.5	185.10	274680	5.70
T3: Remove the infected shoot and fruit + install pheromone traps @ 12/ha (TNAU, TN)	3.0	194.50	291100	5.93



OFT-4 Assessment of different Indian bean varieties

- Problem Identified : Low yield of in Indian bean.
 - Technologies assessed : GNIB-22 & GJIB-2
 - Year of assessment : 2019-20
 - Source of technology : NAU, Navsari & JAU, Junagadh
 - No. of trials : 05
 - Critical inputs supplied : Seed
- Farmers reactions / Feedback : Both varieties perform good in South Gujrat condition, but GNIB is better than the GJIB-2

Performance of technologies assessed :

Technology options	No. of seeds/Pod	No. of Branches/ Plant	Yield (q/ha)	B:C Ratio
Farmers Practice T1- <i>Local Desi Variety</i>	3.21	3.57	26.2	2.82
Assessed Practice-I T2 : <i>GNIB-22</i>	3.49	4.46	38.12	4.65
Assessed Practice -II T3- <i>GJIB-2</i>	4.28	5.23	33.40	3.85



OFT-5 : Assessment of enriched banana sap on yield of Mango.

- Problem Identified :Lower yield due to Fruit dropping in mango.
- Technologies assessed : Use Organic Liquid Nutrient(NOVEL)
- Year of assessment : 2019-20
- Source of technology : NAU, Navsari(2012)
- No. of trials : 05
- Critical inputs supplied : Organic Liquid Nutrient(NOVEL)
- Farmers reactions / Feedback : Application of Novel Organic liquid nutrient on mango inflorescence, increases the flower & fruit setting and ultimately the yield.



Performance of technologies assessed :

Technology options	Fruit Drop(%)		Yield (q/ha)	B:C Ratio
	Pea Stage	Marble Stage		
T1- Farmers Practice (No use of NOVEL)	25	15	21.50	--
Assessed Practice T2- Spraying of 1.5 % banana sap at flowering and pea stage	12	10	23.40	2.78



FRONT LINE DEMONSTRATIONS

Results of Front Line Demonstrations (Oilseeds crops)

Crop/season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Soybean (KDS-344) + ST + INM + IPM (Kharif-19)	New Variety	50	20	10.23	8.60	19.0	1110	5216	1.46
Sesame(GT 5) + ST + INM + IPM (Summer19)	New Variety	50	20	5.87	5.02	17.00	1200	5225	2.05
Groundnut (TG 37 A) + INM (Summer-19)	New Variety	50	20	16.65	15.25	19.15	500	6440	2.00

Crop wise major observation/Feedback

1	Soybean	KDS-344	1.Non-Shattering. 2. Moderately Resistant to smut, YMV, Pod borer & leaf eating caterpillar. 3.Seeds are medium size & light yellow colour
2	Groundnut	TG-37A	1.Tolent to collar rot, rust and late leaf spot. 2. Suitable for summer cultivation
3	Sesame	GT-4	1.Moderate yield. 2. Moderately Resistant to Helicoverpa



Results of Front Line Demonstrations (Pulse crops)

Crop/season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Gram (GG 5) + ST + INM (Rabi 2019-20)	New Variety	30	75	10.23	8.60	19.0	300	5472	1.46
Green gram (GAM 5) + ST + INM + IPM (Summer-2019)	New Variety	30	75	6.11	5.20	17.50	600	11495	2.04

Crop wise major observation/Feedback

1	Gram	GG -5	1. Medium bold, brown colour seed 2. Moderate Yield with moderately resistant to Wilt & Stunt diseases
2	Greengram	GAM-5	1. Moderate Yield 2. Moderately Resistance to YMD



Results of Front Line Demonstrations (Other crops)

Crop/season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Kharif-2019									
GNRH-2	ICM+INM	13	5	44.54	40.50	9.98	1835	7272	2.29
GNR-3	ICM+INM	10	5	48.51	42.10	15.23	1610	11538	2.44
GNR-6	ICM+INM	10	5	46.51	39.90	16.57	1905	11898	2.22
GAR-7	ICM+INM	13	5	43.55	38.80	12.24	580	9500	2.54
Sorghum GNJ-1	ICM	15	6	22.13	18.50	19.62	400	9075	2.64
Tur- GT-104	ICM	3	2	12.54	10.50	19.43	1840	9180	2.65
Tur- GNP-2	ICM	3	2	13.73	11.30	21.50	1900	10935	2.86
Soybean- NRC-37	ICM	13	5	9.32	8.16	14.22	1890	4060	1.56
Cotton G.Cot.Hy-12Bt	ICM	12	5	22.02	18.40	19.67	1520	18824	2.30

Crop wise major observation/Feedback

S.N.	Crop	Technology demonstrated	Feed back
1	Banana	IPDM	1. Less incidence of wilt. 2. Less infestation of weevil in the field.
2	Brinjal	IPDM	1. Less incidence of wilt and other diseases 2. Less infestation of Brinjal fruit and shoot borer and sucking pest 3. Reduce the cost of cultivation by decreasing the use of pesticide
3	Brinjal	INM	1. Increase in yield and quality of fruit 2. Decrease use of chemical fertilizers.
4	Banana	INM	1. Increase bunch weight and quality
5	Okra	IPDM	1. Less infestation of Okra fruit and shoot borer and sucking pest 2. Reduce the cost of cultivation by decreasing the use of pesticide 3. Minimize the number of spray 4. Farmers are habituate to use botanical and organic pesticides in place of hazardous chemical pesticide.
6	Parvar	INM	1. Increase in yield and quality of fruits. 2. Increase fruit setting ratio
7	Parvar	IPDM	1. Less incidence of wilt and nematodes. 2. Decrease pollination problem due to awareness regarding botanicals in place of chemical pesticides among farmers.
8	Mango	IPM	1. Less infestation of fruitfly 2. Increase awareness among farmers about fruitfly infestation 3. Good keeping quality during storage



Results of Front Line Demonstrations (Horticultural Crops)

Crop/season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Banana Grand Naine Kharif-19	INM	10	4	625.15	585.15	6.84	500	28000	3.92
Banana Grand Naine Kharif-19	IPDM	10	4	650.35	580	12.13	-3000	49245	3.79
Brinjal Surti Rabi-19	INM	10	4	161.25	150.45	7.18	-2200	13069	3.18
Pointed gourd-Local Kharif - 19	INM	10	4	172.45	160.15	7.68	3000	30750	3.42
Brinjal Local Rabi-19	IPDM	10	4	182.25	162.15	12.40	-1700	24120	3.49
Pointed gourd_Local Kharif - 19	IPDM	10	4	157.1	133.25	17.90	-8000	58375	2.86
Mango Rabi-19	IPM (Fruitfly trap)	10	4	61.5	59.15	3.97	-1300	3525	2.84
Okra Hybrid Sum-19	IPDM	10	4	160.25	142.12	12.76	4600	22662	3.43

Crop wise major observation/Feedback

S.N.	Crop	Technology demonstrated	Feed back
1	Paddy	GNRH -2	1.Mid-Early variety, high spikelet fertility 2.Medium slender & Moderately Resistant to diseases & Pests
2	Paddy	GNR – 3	1.Early maturing, bold seeded like Gurjari & Jaya Suitable for Murmura & Pauva making 2.Resistant to BLB/Stem borer Insect & Pests
3	Paddy	GNR -6	1.High yield & suitable for rainfed TP 2. Early to mid late maturing & long grain. 3. Low incidence of Insects- pests & diseases.
4	Paddy	GAR – 7	1. Medium duration with Short slender grain. 2.Good Cooking & Keeping quality
5	Sorghum	GNJ-1	1.High yielding 2.Less incidence of smut, shoot borer and grain mould
6	Pigeonpea	GT-104	1.Red flower. 2.Medium Maturing & Semi-Spreading 3.Long pod ,More no. of seeds(5-7)/pod 4.Cream Seed Colour
7	Pigeonpea	GNP-2	1.White round Seed 2.Suitable for Seed as well as vegetable. 3. Moderately Resistant to Pod fly/Wilt
8	Soybean	NRC-37	1. Moderate yield. 2. Early maturing 3. Moderately Resistant to Pest & disease
9	Cotton	G.Cot.Hy-12(Bt)	1. Early maturing 2. Suitable for Rain fed condition also. 3. Less sucking pests



Results of Front Line Demonstrations (Livestock and Fisheries)

Category	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ etc)	Major parameters			% change in parameter
				Parameter	Demo	Check	
Cow	Nutritional management Mineral Mixture 40 mg per Day and De-worming 3g Tablet	20	20	1. Average Milk Yield (Lit./Day)	9.50(20)	8.38(10)	13.36
				2. Service Period (Days)	130(19)	148(8)	30.40
Cow	Nutritional management Bypass fat powder 50 g per day	20	20	1. Average Milk Yield (Lit./Day)	10.62	10.76	8.00
				2. Fat(%)	4.20	3.80	10.50
Cow	Prevention/Treatment of Ectoparasite Parasites prevention by Liquid application on back of animal Poron®	20	20	1. No. of Incidence	2(20)	4(10)	75% reduction in cases



Results of Front Line Demonstrations (Livestock and Fisheries)

Category	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ etc)	Major parameters				% change in parameter	
				Parameter	Demo		Check		
Calf	De-worming + calf Dan @ 50 gms per day up to six months	20	20	Av. Body Wt. (Kg) % Increase	At Months				16 %
					3	6	3	6	
					59.7 11.1	84.6 16.0	53.7 --	72.9 --	
Buffalo	Breeding management Cure of anoestrus condition by giving @Prajna (catalytic hormone) and multi mineral tablets	10	10	Regular estrus	9(10)		2(5)		55 % Reduction in cases



Results of FLDs on Women Empowerment

Category	Name of the technology demonstrated	No. of Farm women	Inputs given	Major parameters			Change in parameter	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Parameter	Demo	Check				
Kitchen Garden	Kitchen Garden	100	Seeds and Seedling	Production of Vegetables(Kg)	95.9	19.97	3.80 times high	82	3795	4.79

Feed Back:

- 1. Kitchen gardening gives continuous supply of fresh vegetables.**
- 2. Income is generated by selling extra vegetables grown in kitchen garden.**
- 3. Farm women are not applying any pesticides in kitchen garden so they get organic vegetables.**



Results of FLDS on Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Field observation (output/man hour)		% change in major parameter
						Demo	Check	
Twin Wheel Hoe*	Vegetables & Pulses	Drudgery reduction	20	1	1.Field capacity(ha/hr)	0.013	0.0086	44.92
					2.Labour requiment (Man hr/ha)	80	116	
					3.Cost of operation(Rs)**	0.1 ha/day	0.069 ha/day	
						1711	2587	

*Twin wheel hoe technology recommended by CIAE, Bhopal-MP

**Cost of operation is calculated as per NAU labour wages

Feed back:

1. Reduced the labour cost and Time saving
2. Increase the work efficiency



Summary of Training Programmes Conducted

Important Training Programmes :

- Organic Farming
- Scientific Cultivation of field & horticultural crops including INM & IPDM
- Training on Terrace Gardening for Urban people
- Mushroom cultivation for rural youth
- Value addition in agricultural produces
- Nutrition & Disease management in milch animals

Clientele	No. of courses		No. of Participants		
	On Campus	Off Campus	Male	Female	Total
Practicing farmers	17	60	1301	1408	2709
Rural Youth (Vocational Trainings)	1	4	103	50	153
Extension Functionaries	-	3	76	24	100
Sponsored trainings	-	5	67	95	162
Total	18	72	1547	1577	3124

Impact of major Interventions

Name of intervention/ Technology	No of beneficiary	% of Adoption	Change in income (Rs/ha)	
			Before	After
Use of improved Varieties				
Paddy GNR-3	1000	20	30000	36000
Green gram -Meha	450	15	27000	30000
Pigeonpea- Vaishali	1500	35	33000	40000
INM				
NOVEL (Organic Liquid Nutrient)	5000	28	--	--
Bio fertilizers	4000	23	--	--
IPM				
Fruitfly Trap	1200	18	225000	300000
IPDM in Pointed guard	1600	12	200000	225000
Veterinary				
Mineral Mixture Supplements	500	22	4700 Rs/Lactation	5500 Rs./Lactation

Introduction of New crop & Method by Mr. Shaileshbhai Sailor

Area Under

Field Crops: 8.40 ha

Horticultural Crops: 1.60 ha (Greenhouse)

- In NVPH system, he has planted the orchid and strawberry plants in two layer system. Soilless cultivation (Use coconut husk and coco peat for orchid)
- First layer system, planting of orchid on coconut husk put on GI stand at the height of 2.5-3.0 feet and 1 meter width.
- In second layer, planting of strawberry (Soilless cultivation) in turf technology (40-20 cm turf) with help of GI pipe in hanging condition.
- Income – Nearly 25 Lakhs / year
- Fellow Farmer- 8

Shri. R. C. Faldu, Agril. Minister
Shri Mukesh Patel, MLA



Economic empowerment of Women Farmer through animal Husbandry

Name: Jamanaben Maganbhai Nakum

Village: Taked (Kadvali Faliya)

Age: 45 years

Education: 2 std.

Size of land holding: 15 Vigha

Motivation factor: Family

Source of information: KVK, SUMUL & Line Department

Farm Details:

Total herd strength: **27 Gir cows**, 2- Heifer, 7 – Female calf, 2 – Male calf.

Total Milk Production: 44000 L (Last year)

Rate: Rs. 80 per L

Gross Income: /- 2,50,000/- per Month

Details of Progress:

The herd strength is total 27 Gir cows including 18 lactating and 9 dry cows.

Animal rearing through Low cost Farm Investment (Kaccha Farm).

Provide open area ranching for all cows during full day time.

3 Ha Land use for the green fodder production and some dry fodder throughout the year

Year	Production (L)	Gross (Lakh.)	Expenses (Lakh)	Net profit (Lakh)
2016-17	30000	21.00	15.60	5.40
2017-18	36000	28.80	17.28	11.52
2018-19	44000	35.20	20.24	14.96

Terrace gardening- Growing Craze in Urban People

- Whatsapp groups: 25 in running condition
- Total Trainings: 21
- Participants : 1700
- Successful Terrace Gardens : 851

કૃષિ યુનિવર્સિટીમાં ટેરેસ ગાર્ડન વર્કશોપનું આયોજન કરવામાં આવ્યું હતું 10 ફૂટની બાલ્કનીમાં ગાર્ડન બનાવી શકાય

કૃષિ યુનિવર્સિટીના કૃષિ વિજ્ઞાન કેન્દ્રના આયોજનમાં...

“અગાથી, બાલ્કનીમાં ટેરેસ ગાર્ડન બનાવી શકાય છે. રોજિંદા ઉપયોગમાં લેવાતા 40 સાકભાજી આ ગાર્ડનમાં ઉગાડી શકાય છે.” નવસારી કૃષિ યુનિવર્સિટી દ્વારા કિચન ગાર્ડન વર્કશોપનું આયોજન કરવામાં આવ્યું હતું. જેમાં આ વાત બહુ પ્રમાણમાં કહી હતી.

ટેરેસ ગાર્ડન તૈયાર કરવા માટે ખુલ્લી જગ્યા લીધી જોઈએ. જે જગ્યા પર 5થી 7 ફુટલા તકડો આવતો હોય અને પાણી સહેલાઈથી મળી રહેતું હોય તે અગાથી પર ટેરેસ ગાર્ડન બનાવી શકાય છે. બાલ્કની અથવા અગાથી પર પણ ગાર્ડન તૈયાર કરી શકાય છે. ટેરેસ ગાર્ડન બનાવવા માટે એક તગારુ માટી, એક તગારુ ખાતર અને એક તગારુ નાભિયેરના

છાલામાંથી બનાવેલ પાઉંડર અને 100થી 150 ગ્રામ ડાયકોડરમા ખાતર ગ્રામ મિશ્ર કરો. પછી એને ફૂડમાં નાંખો. ટેરેસ ગાર્ડનમાં ટામેટા, રિંગણ, કોબીજ, ફલાવર, દુધી, વેલા, મરચાના છોડ, ડુંગરી, ચોથી, તુરિયા, પાપડી, કાચલા, મેથી, ગુવાર, તુવેર, લસણ, ભીડો, પાલક અને દરરોજ ઉપયોગમાં લેવાય એવા સાકભાજી ઉગાડી શકાય છે.

ટામેટા, રિંગણ અને કોબીજ અગાથી પર ઉગાડી શકાય

બાગાયત મેળામાં ટેરેસ-કિચન ગાર્ડન અંગે ભારે ઉત્સુકતા, ૮૦૦થી વધુ રજીસ્ટ્રેશન

નવસારી કૃષિ યુનિવર્સિટી સ્ટોલ પર ટેરેસ ગાર્ડનની ટ્રેનિંગ માટે શહેરીજનોનું રજીસ્ટ્રેશન કરાવી ગયા.

ડોક્ટરો, વકીલો, સી.એ. વગેરે કિચન ગાર્ડન માટે લોકોને માહિતી આપે છે

સુરત : સુરત મહાનગર પાલિકા આયોજિત પુસ્તક બજારના અને સિલ્ક મેળાની સમગ્ર સમય દરમિયાન આયોજન કરવામાં આવેલા ટેરેસ ગાર્ડનની ટ્રેનિંગ માટે શહેરીજનોનું રજીસ્ટ્રેશન કરાવી ગયા. ડોક્ટરો, વકીલો, સી.એ. વગેરે કિચન ગાર્ડન માટે લોકોને માહિતી આપે છે.

નવસારી કૃષિ યુનિવર્સિટીમાં ટેરેસ ગાર્ડનની ટ્રેનિંગ માટે શહેરીજનોનું રજીસ્ટ્રેશન કરાવી ગયા. ડોક્ટરો, વકીલો, સી.એ. વગેરે કિચન ગાર્ડન માટે લોકોને માહિતી આપે છે.

પયાવરણ જાનવાણી, ઓર્ગેનિક ફુડ અને ગ્રીન સિટીનો કોન્સેપ્ટ એમ ત્રણ લાભ : ડૉ. મોહીની ગઢીયા

નવસારી કૃષિ યુનિવર્સિટીમાં ટેરેસ ગાર્ડનની ટ્રેનિંગ માટે શહેરીજનોનું રજીસ્ટ્રેશન કરાવી ગયા. ડોક્ટરો, વકીલો, સી.એ. વગેરે કિચન ગાર્ડન માટે લોકોને માહિતી આપે છે.

દારના કચરામાંથી જ ઓર્ગેનિક ખાતર બનાવી કીચન ગાર્ડનમાં ઉપયોગ

આ સ્ટોલ પર ઘરમાં જ ઓર્ગેનિક ખાતર તૈયાર કરી કીચન ગાર્ડનમાં તેના ઉપયોગ માટે પણ માહિતી અને માર્ગદર્શન આપવામાં આવી રહ્યું છે. ઘરમાં નકામી પ્લાસ્ટિકની બોટલ, માટલા માટલા, ડીટરજન્ટી ટાંકી વગેરેમાં જ રોજ રોજ ઘરમાંથી નિકળતા સાકભાજીના કચરા, રાખી વગેરેમાં બાકી પડેલી વર્જ્યસ્ત્રોમાંથી રીતે રીતે ઓર્ગેનિક ખાતર બનાવવું તેનું મોડેલ પ્રસ્તાવ છે.

કચરા કયા સાકભાજી ઉગાડી શકાય?

ટેરેસ ગાર્ડનમાં ટામેટા, રિંગણ, કોબીજ, કોબાની, બનાના, ડાહાલ, મરચો, ટુળીનો, મેથી, સલિદાના રાજ જેવાલા રોજરોજ લેવાતા સાકભાજીમાં ઉગાડી શકાય છે.

એ વર્ષમાં ૧૨૦૦ થી વધુ પરિવારોએ લીધી કૃષિ વિજ્ઞાન કેન્દ્રમાં ઓર્ગેનિક પેત્રીની તાલીમ સુરતીઓમાં વધી રહ્યા છે ઓર્ગેનિક ટેરેસ ગાર્ડનનો કેળવ

કિચન, બાલ્કની અને ટેરેસ પર મહિલાઓ ઉગાડે છે ભીંડા, રીંગણ, તુરિયા, તુવેર, પાપડા સાથે જ સોજાન ફળો અને સાકભાજી



સુરતની સેંકડો મહિલાઓએ લીધી છે તાલીમ

કૃષિ વિજ્ઞાન કેન્દ્રના વિભાગદ્વારા ડૉ. જયકે રાહોડે જવાબે છે કે સેંકડોની સંખ્યામાં પરિવારોએ લીધી છે અને મહિલાઓ તેમાં વધુ સક્રિય છે. ઘરોમાં ઓર્ગેનિક પેત્રી કરી શકે છે અને તેમાં ભીંડા, રીંગણ, તુરિયા, તુવેર, પાપડા સાથે જ સોજાન ફળો અને સાકભાજી ઉગાડી શકાય છે. આ વર્ષમાં ૧૨૦૦ થી વધુ પરિવારોએ લીધી છે તાલીમ. કૃષિ વિજ્ઞાન કેન્દ્રમાં ઓર્ગેનિક ટેરેસ ગાર્ડનની તાલીમ આપવામાં આવી છે. આ તાલીમ દરમિયાન સરકારી ઓફિસ અને વ્યવસાયિક સાકભાજીની વેચાણ કેન્દ્રોમાં આ તાલીમ આપવામાં આવી છે.

શું છે ટેરેસ ગાર્ડન મુંબેશ

કૃષિ વિજ્ઞાન કેન્દ્ર દ્વારા સરકારના સહયોગે આ તાલીમ આપવામાં આવી છે. આ તાલીમ દરમિયાન સરકારી ઓફિસ અને વ્યવસાયિક સાકભાજીની વેચાણ કેન્દ્રોમાં આ તાલીમ આપવામાં આવી છે.

મુંબેશ સાથે જોડાયેલી મહિલાઓની પ્રતિક્રિયા

હવે સાકભાજીના ભાવ નથી ખબર હવે ખબર છે કે આપણે શું ખાધ રહ્યા છે. ઓર્ગેનિક પેત્રીની તાલીમ આપવામાં આવી છે. આ તાલીમ દરમિયાન સરકારી ઓફિસ અને વ્યવસાયિક સાકભાજીની વેચાણ કેન્દ્રોમાં આ તાલીમ આપવામાં આવી છે.

એ વર્ષથી મુંબેશ સાથે જોડાયેલું, ઘરમાં જ તૈયાર કરું છું ફટિલાઇઝર

કૃષિ વિજ્ઞાન કેન્દ્રને શીખવ્યું કેવી રીતે કરાય ઓર્ગેનિક પેત્રી

કૃષિ વિજ્ઞાન કેન્દ્રને શીખવ્યું કેવી રીતે કરાય ઓર્ગેનિક પેત્રી

સામના દાફમ સુરતિયોં મેં બઢ રહા હે ઓર્ગેનિક ટેરેસ ગાર્ડન કા રઝાન

સૂરત સિટી 02

વચા હે અમિયાન સે જુડી મહિલાઓં કા કલના

સૂરતની સેંકડો મહિલાઓં ને પ્રતિધાન સિચા હે અરિ પરિવરન હે

સૂરતની સેંકડો મહિલાઓં ને પ્રતિધાન સિચા હે અરિ પરિવરન હે



SHOT ON REDMI 7
AI DUAL CAMERA

વેસ્ટમાંથી બેસ્ટ કરી બનાવે છે ફૂડા



અંગલામાં ખેતર..!

લસણ, સક્કરદેટી, અંજીર, સીતાફળ, જમરુખ, સેતુર



સુરત

સંદેશ
NEWS



ZEE5 50/5

natraj Smart RO

ઘરમાં 125 ફૂડામાં વાલ્યાં જે અનેક શાક અને ફળફળ તલાટી મંત્રી વિરુદ્ધ પ્રાંત અધિકારીએ કાઢ્યું

4:01

અંગલામાં જ ખેતર જેવા દ્રશ્યો..

સુરત



અંગલામાં ખેતર..!



ભાગી સારી સંસ્કૃતિ સારી



Major Extension Activities Conducted during the year

Extension Activity	No. of programmes	No. of farmers
Advisory Services	3516	3516
Diagnostic visits	210	627
Field Day	22	702
Group discussions	6	151
Kisan Ghosthi	10	443
Film Show	113	4003
Self -help groups	3	49
Scientists' visit to farmers field	85	267
Plant/animal health camps	4	554
Farmers' seminar/workshop	1	110
Method Demonstrations	53	946



Film Show



Mahila Shibir



Van Mahotsav



Constitution Day



Diagnostic Visit



Diagnostic Visit

Major/Other Extension Activities Conducted during the year

Major Extension Activity	No. of programmes	No. of farmers
Celebration of important days	35	4867
Special day celebration	8	919
Exposure visits	6	335
Khedut Shibir	1	1200
Mahila Shibir	3	201
Mahila Meeting	3	56
Lectures delivered as resource persons	92	8365
Newspaper coverage	9	9000
Farmers visit to KVK	636	626
Swachchha Bharat Pakhavadia	21	301
Swachchha Hi Seva	32	685
Total	4869	37923

Other Extension Activity	Number
News paper coverage	9
Extension literature	23
Popular articles	2
Research papers	8
TV TalkDoordarshan	1



Use of ICTs

FPO/FPC formed

S. N.	Name of FPO & Year of formation	No. of Farmers in FPO	If yes, than specify the role of KVK in the formation of FPO	If presently active then main activities of FPO	Any other support which KVK provides to existing active FPO for Strengthening them
1	Surtapi FPO Co. Limited	10	Basic information & guidance for the formation of FPO.	1. Marketing of fresh & Processed organic Produces. 2. To create awareness of Organic farming.	Technical guidance related to advanced agricultural techniques.
2	South Gujarat Progressive Farmer Self Reliant Co. Limited	1666	--.	1. Collection & marketing of vegetable & fruts. 2. Selling of Cotton cake for animal feed. 3. Storage & marketing of soybean from local farmers.	Technical guidance related to advanced agricultural techniques.

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	13
News paper coverage	9
Popular articles	2
Radio Talks	0
TV Talks	1
Others (pl. specify)	0
Total	25

Name of KVK	Message Type	Type of Messages				Total
		Crop	Livestock	Weather	Other enterprise	
Surat	Text only	4235	6320	11151	-	21706
Total Messages		2	2	2	-	6

S. N.	Whatsapp		
	No. of message sent	No. of Farmers per message	No. of Bene. farmers
1	51	246	12564

Local Mahila Mandal promoted by KVK

- Vanraavan & Vashundhara tribal Self Help Group, Gamtalav
- Jagruti Sakhi Mandal, Parvat
- Sakhi Mahila Mandal Samiti, Gondalia
- Saheli Sakhi Mandal, Ranikund

Production and supply of technology inputs from KVK

Name of the input	Variety / Breed / species, etc	Production (Q)	Supplied to No. of farmers	Value (Rs)
Seeds	Paddy-GNR-3	01.75	14	5250
	- GNR-7	19.25	154	57750
Planting material	Drumstick- PKM-1	3275	330	65500
	Brinjal – Hy-143	60000	20	36000
	Chilli- CJ	30000	10	18000



Paddy Seedling raising



Paddy Variety GNR-3



Drumstick PKM-1

Demonstration Units at KVK, Surat



Name of the demonstration unit	Name of the product	Production during the year 2019-20	Net profit realized (Rs)	Remarks if any
Nursery	Drumstick- PKM-1	3275	65500	Planting material given to 360 farmers
	Brinjal – Hy-143	60000	36000	
	Chilli- CJ	30000	18000	

FARM PRODUCTION

Kharif-2019

Major group/ Class crop	Name of the crop	Name of the variety	Quantity of seed/seedlings (q)	Value (Rs)	Number of farmers
Cereals	Paddy	GNR-3	1.75	--	--
		GNR-7	19.25	--	--
	Straw	--	86.50	42900	

Rabi/Summer-2019-20

Major group/Class crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed/seedlings(q)	Value (Rs)	Number of farmers
Horticulture	Drum Stick	PKM-1	--	3275	65500	330
	Brinjal	--	Hy-143	60000	36000	20
	Chilli	--	CJ	30000	18000	10

Status of villages adopted for Doubling Farmers Income

S. No	Name of the village	Population	No. of households	Major activities conducted	Output/Outcome in brief
1	Balda	2790	734	Survey, preparation of action plan & implementation. Shibir,-2, Training-4 & FLDs-6(110)	--
2	Vadia	1354	381		--



Details of collaborative activities conducted

Name of the sponsoring agency	Type of activity	Role of KVK	No. of farmers benefited
ATMA	Training, Exhibitions, Best ATMA Award Participation	As Guest Lecturer in Training	388
Bank of Baroda	Exhibitions	Exhibition stall at Bardoli	2340
Line departments (Horticulture & Agriculture)	Training and Sibir, Kristi Mahotsav	As Guest Lecturer in Training	6036
Ambuja Cement Foundation	Trainings, Sibir	As Guest Lecturer in Training	1240
Forest Department	Trainings, Sibir, FLD	As Guest Lecturer in Training	251
Reliance foundation	Trainings, Sibir, Special Day Celebration, FLD	As Guest Lecturer in Training, Input distribution,	515
Baroda Swarojgar Vikas Sansthan	Trainings, Shibir	As Guest Lecturer in Training	58
Mandvi Rice mill Co-operative Society, Mandvi	Trainings, Sibir, FLD	As Guest Lecturer in Training, Input distribution	157
Adani Foundation, Surat	Shibir, Training	As Guest Lecturer in Training	26



Awards and Recognition

S. No.	Name of the award	Given by	Nature of award	Given for
A	KVK Awards			
	Life Fellow to KVK, Scientist Dr. Rakesh K. Patel	The Entomological Society of India on December 31, 2019	CERTIFICATE	Membership
B	Farmers Awards	--		



Progress of DAMU Project

1. Title of the Project: Atmospheric and Climate Research-Modeling Observing System and Services (ACROSS)-DAMU

2. Sanction letter : ASC-08/DAMU/2014 Dated : 05.07.2018

3. Name of Damu, District, ATARI zone and Year

DAMU Name : Gramin Krishi Mausam Seva-District Agro-Met Unit

Name of Blocks: Surat

Year of start of AAS at DAMU: --

AWS: Not Installed.

4. Name and address with landline and mobile numbers along with STD code (also provide e-mail address) of head of ATARI, Project Coordinator, Head of the Krishi Vigyan Kendra (KVK)

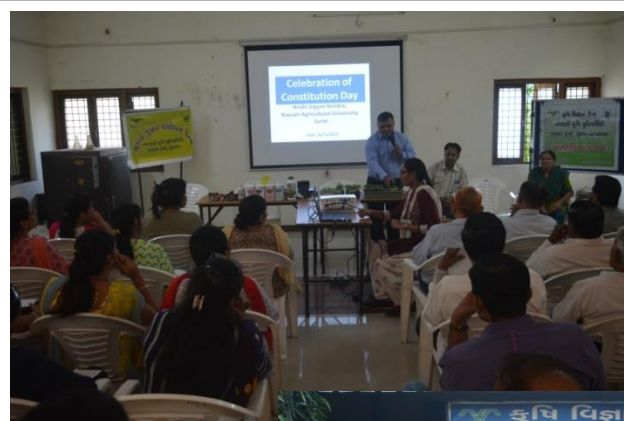
Designation	Name	Address	STD code Telephone no. & Fax	Email-id
Head of ATARI	Dr. Lakhan Singh	ATARI, Pune, Zone -VIII	M.:7088994447	atari.pune@gmail.com
Head of KVK	Dr. J. H. Rathod	Krishi Vigyan Kendra, Navsari Agricultural University, Surat-	O: (0261)2655565 M.: 8128686720	kvksurat@nau.in
Project Coordinator (PC)	Shri. S. J. Trivedi	395007	M.: 9429018082	suniltrivedi131164@gmail.com
SMS	Applications for both the posts are invited but due to COVID 19, exam/interview procedures are still pending.			
Agromet Observer				

Budget Information(Rs.)

Sr. No.	Year	BE	Opening Balance	Receipt during	Total (BE)	Expenditure	Closing Balance
1	2	3	4	5	6 (4+5)	7	8 (6-7)
1	2018-19	4,80,000	0	4,80,000	4,80,000	156345	323,655
2	2019-20	668,000	323,655	344,345	668,000	209,675	458,325

Celebration of Constitution Day

S.N.	Name of activity organized	No. of officials attended programme	No. of VIPs attended programme	Total participants
1	SHG Meeting	50	2	52
2	Reading of 'Preamble'	11	-	11
3	Seminar on Constitution day and distribution of brochures, folders etc. among participants	7	-	51
4	Lecture on Important Constitutional Amendments & their significance	8	2	105
5	Lecture on Agriculture Act and Agriculture Legislation and its importance in post WTO era.			
6	Talk on Constitution and citizen duties, Land legislations and Reforms	0	40	47



Swachh Bharat Pakhavada

Swachhta Hi Sewa



No. of activities	Farmers/Students		
	Male	Female	Total
21	198	103	301
27	454	215	669



Celebration of Van-Mahotsav



Date	Participants		
	Male	Female	Total
19.07.2019	46	29	75



Dr. R. J. Patel, Ex. Collector , Valsad



Aqaponics, Vertical Farming & Biofloc - A New Trend in Agriculture

Date	Participants		
	Male	Female	Total
16.10.2019	102	08	110



Hon. Vice Chancellor, NAU, Navsari
Joint Director of Horticulture, Surat



Lecture by Expert

Impact: 2 Units of Vertical Farming Started

Thanks