The following members were remained present in 7th SAC Meeting of Krishi Vigyan Kendra, Gorkhijadia (Morbi), Date : 31/01/2024

Sr. No.	Name & Designation	Position
1	Dr. V. P. Chovatia, Hon'ble Vice Chancellor, J.A.U., Junagadh	Chairman
2	Dr. N. B. Jadav, Director of Extension Education, JAU, Junagadh	Member
3	Dr. D. S. Hirpara, Research Scientist, MDFRS, JAU, Targhadia	Member
4	Dr. G. R. Maraviya, Senior Scientist & Head, KVK, JAU, Targhadia	Member
5	Dr. A. J. Bhatt, Senior Scientist & Head, KVK, JAU, Pipalia	Member
6	Dr. K. P. Baraiya, Senior Scientist & Head, KVK, JAU, Jamnagar	Member
7	Dr. H. C. Chhodvadia, Associate Extension Educationist, JAU, Junagadh	Member
8	Dr. R. M. Satasiya, Principal, Polytechnic in Agricultural Engineering, Targhadia	Member
9	Shri. M.T. Bhimani, Représentative of Deputy Director, Horticulture, Rajkot	Member
10	Shri. N. G. Ramoliya, Représentative of District Agriculture Officer, Rajkot	Member
11	Shri. D. P. Sanepara, Scientist – Engineering, KVK, JAU, Targhadia	Invitee Member
12	Shri. Sudhir Dutta, Akashvani, Rajkot	Member
13	Dr. K. N. Vadariya, Scientist – Agronomy, KVK, JAU, Morbi	Member
14	Shri. Husenbhai Hayatbhai Khorajiya, Progressive Farmer, Village : Chandrapur, Taluka : Wankaner, Dist. : Morbi	Member
15	Shri. Yashinbhai Mahamadnhai Dekavadiya, Progressive Farmer, Village : Dhamalpar, Taluka : Wankaner, Dist. : Morbi	Member
16	Shri. Rafikbhai Usmanbhai Serasiya, Progressive Farmer, Village : Khijadiya, Taluka : Wankaner, Dist. : Morbi	Member
17	Prof. M. F. Bhoraniya, Senior Scientist & Head, KVK, JAU, Morbi	Member Secretary

The following suggestions were made by 7thSAC members during the meeting

Sr. No.	Suggestions	Action taken
1	District & state average yield compared with demonstrated technologies average yield in FLDs presentation.	Suggestion accepted and incorporated
2	Diagnostic visit should be presented discipline wise along with field crop.	Suggestion accepted and incorporated
3	Increase number of press note for highlight KVK activities in district.	Suggestion accepted and incorporated
4	FLDs Results include *Rabi*-Summer crops previous year & *Kharif* crops of current year in presentation & in report.	Suggestion accepted and incorporated
5	Total cost of demonstrated technology in FLDs should be include in report.	Suggestion accepted and incorporated
6	Per cent disease incidence observation data should be include in cumin OFT.	Suggestion accepted and incorporated
7	Interventions & technological feedback presentation according to KVK, Pipalia.	Suggestion accepted and incorporated
8	Natural farming plot board for display in instructional farm of KVK.	Natural farming plot board was erected in instructional farm of KVK.
9	In groundnut FLD, instead of *Rhizobium*, give other option if available to farmers.	Suggestion accepted and incorporated
10	Adverse weather condition in normal season & pest attack, advance advisory to farmer's community through SMS and WhatsApp groups.	Suggestion accepted and incorporated. 372 advisories were sent through 22 whatsap groups to 6050 farmers.
11	To document and prepare video/documentary film of success stories of KVK progressive farmers with the help of AGRISNET Studio.	Suggestion accepted and incorporated. video/documentary will be prepared in year 2025.
12	Awareness on natural farming to farmer's community through training.	Suggestion accepted and incorporated. 9 training for farmers, 4 training for extension workers was carried out during year 2025.

Agenda for 8thScientific Advisory Committee Meeting (SAC) of KVK – Morbi scheduled to be held on 27thJanuary, 2025 at KVK, Targhadia on 15:00.

Item No.	Agenda
1	Action taken report of 7th SAC meeting.
2	Progress report of - KVK activities held between , January - 2024 to December -2024
3	Presentation on Action plan for the year January - 2025 to December - 2025
4	Presentation of Budget Position.
5	Suggestions and discussion to make Krishi Vigyan Kendra, Morbi more effective.
6	Any other related matters with the permission of the chairperson.

PROGRESS REPORT

(January – 2024 to December - 2024)

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)
	Office	FAX		
Krishi Vigyan Kendra, Junagadh Agricultural University, Morbi Dist-Morbi (Gujarat) – 363641	-	-	kvkmorbi@gmail.com	www.jau.in 3,52,59,672

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.andE-mail:

Name	Telephone / Contact		
	Mobile	office	E mail
Prof. M.F. Bhoraniya	9428297863	-	mfbhoraniya@gmail.com

1.4 Year of Sanction: 2017 (Sanctioned vide letter No. F.No.A.Extn.13-1/2016-AE, Dated 18/10/2016 of Under Secretory (AE), ICAR, Krushi Anusandhan Bhavan, Pusa, New Delhi-110 012)

1.5 Faculty Information: (as on December 31, 2024)

No	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	Current Pay Band	Current GradePay	Date of joining
1.	Senior Scientist and Head	Vacant	-	-	-	-	-
2.	Scientist	Prof. M.F. Bhoraniya	9428297863	Plant Protection	57700 - 182400	UL-10	01/09/23
3.	Scientist	Dr. K.N. Vadaria	9824290555	Agronomy	57700 - 182400	UL-10	01/06/22
4.	Scientist	Vacant	-	Home Science	-	-	-
5.	Scientist	Vacant	-	Animal Science			
6.	Scientist	Vacant	-	Horticulture	-	-	-
7.	Scientist	Vacant	-	Extension	-	-	-
8.	Agriculture officer	Gamansinh S. Zala	8780953478	B.Sc. Agri.	39900-126600	L-7	03/08/18
9.	Programme Assistant	J.R. Shekhada	9687442282	M.C.A.	39900-126600	L-7	30/10/24
10.	Computer Programmer	Vacant	-	-	-	-	-
11.	Farm Manager	Vinuji V. Thakor	8155049089	B.Sc. Agri.	39900-126600	L-7	31/07/18
12.	Accountant/Superintendent	Vacant	-	-	-	-	-
13.	Stenographer	N. M. Vadhadiya	9925182898	M.A. B.Ed.	25500-81100	L-4	01/03/22
14.	Driver 1	Vacant	-	-	-	-	-
15.	Driver 2	Vacant	-	-	-	-	-
16.	Supporting staff 1	G.K. Badelia	7046091223	B.A.	14800-47100	IS-1	01/12/23
17.	Supporting staff 2	B.P. Vaghela	9913122848	7th Std.	14800-47100	IS-1	01/07/24

1.6 Total land with KVK (in ha): 26.2 ha. :

Sr. No.	Item	Area (ha)
1	Under Buildings and Road	2.0 ha
2.	Under Demonstration Units	1.8 ha
3.	Under Crops	8.0 ha
4.	Horticulture	0.0 ha
5.	Others (Barren submerged under Machchhu-3 dam , Bund and Water drain)	14.4 ha
Total		**26.2 ha**

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	2019-20	575.32	143.00 Lacs	-	-	-
2.	Farmers Hostel	KVK	2019-20	443.96	61.00 Lacs	-	-	-
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Nadep Compost	SAU	2019-20	18.0	10000/-	-	-	-
5	Fencing	JAU	2017-18	4535	7,95,480/-	-	-	-
6	Rain Water harvesting system	-	2018-19	-	2,00,000/-	-	-	-
7	Threshing yard	JAU	2020-21	400	3,15,838/-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	ICT lab	-	-	-	-	-	-	-
10	Roof Rain Water harvesting structure	SAU	2019-20	1.40 lac ltr.	4.6 Lacs	-	-	-
11	Farm road (Farmers' hostel to plot A-2) 150 m	JAU	2023-24	540	4.6 Lacs	-	-	-

B. Vehicles:

Type of vehicle	Year of purchase	Cost (Rs.)	Present status
Tractor Mini Captain 9.5 H.P.	2005	165000/-	-
Tractor Mini Trishul 10 H.P.	2007	183000/-	Working
Tractor Massey DL-241	2017	607137/-	Working
Mahindra Bolero	2019	800000/-	Working

C. Equipments& AV aids:

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
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 6230 canon	2017	8761/-	Working

Computer System SIS Agiledag-2277 LG	2010	24210/-	Working
Computer System Intel core i3 processor HCL	-	34596/-	Working
Printer MF 4350d canon	-	14327/-	Working
Xerox Machine RICHO Digital	2013	113755/-	Not Working
Computer system Acer	2009	31635/-	Working
Computer system Acer	2010	32270/-	Working
Printer Samsung	2013	4579/-	Working
Computer system Acer	2009	30968/-	Working
LG smart television	2021	189975/-	Working

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK MORBI

2.1. Major farming systems/enterprises

S. No	Farming system/enterprise
1	Cotton-Wheat/Cotton-Cumin/Groundnut-Wheat/Groundnut-Cumin/Groundnut-Chickpea
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

a) Climate

Sl. No.	Agro-climatic Zone	Characteristics
1	North Saurashtra Agro Climatic Zone-VI, Morbi, Wankaner and Tankara	Semi arid – region with annual rainfall 550 - 600 mm. Maximum temp – 44˚C, Minimum range – 5 to 12˚C & high evaporation
2	North west agro climatic Zone- V 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

S. No.	Agro ecological situation	Characteristics
1	Situation No. 6	Plain & hilly areas in Wankaner Tehsil.
2	Situation No. 5	Plain costal region (saline) affected with desertification

2.3 Soil Types

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

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2022-23)

Sr. No	Crop	Area (ha)	Production (MT)	Productivity(kg/ha)
1	Cotton	196231	121737 (Lint)	659 (Lint)
2	Groundnut	65830	126734	1925
3	Wheat	44325	155796	3515
4	Cumin	27452	25166	917
5	Chickpea	27250	48528	1781
6	Sesame	15365	12663	824
7	Castor	14250	42576	2988
8	Fennel	4695	8772	1868
9	Pearlmillet	2667	7523	2821
10	Onion	2140	41723	19497
11	Garlic	1965	12972	6602
12	Black gram	1900	676	356
13	Green gram	1663	974	586

Source: Directorate of Agriculture (https://dag.gujarat.gov.in/estimate-guj.htm)

2.5. Weather data (2024)

Month	Rainfall (mm)	Month	Rainfall (mm)
January	0	July	301
February	0	August	548
March	0	September	33
April	0	October	114
May	0	November	0
June	81	December	0
		Total	**1077**
		Rainy Days	**34**

Date	Rainfall (mm)	Date	Rainfall (mm)	Date	Rainfall (mm)
23-06-2024	20	25-07-2024	3	30-08-2024	8
25-06-2024	13	26-07-2024	4	**August-2024**	**548**
28-06-2024	22	30-07-2024	15	03-09-2024	14
30-06-2024	26	31-07-2024	3	06-09-2024	12
June-2024	**81**	**July-2024**	**301**	26-09-2024	3
01-07-2024	47	01-08-2024	3	27-09-2024	4
02-07-2024	117	02-08-2024	33	**September-2024**	**33**
08-07-2024	14	03-08-2024	14	15-10-2024	45
09-07-2024	8	09-08-2024	9	21-10-2024	69
11-07-2024	6	13-08-2024	16	**October-2024**	**114**
18-07-2024	6	17-08-2024	6		
19-07-2024	22	26-08-2024	88		
20-07-2024	2	27-08-2024	229		
22-07-2024	9	28-08-2024	103	**Total Rainy Days**	**34**
23-07-2024	45	29-08-2024	39	**Total Rainfall (mm)**	**1077**

2.6. Details of Operational area / Villages

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Morbi	Chakampar Jivapar Dharampur Thorala Andarana	**Crops:** Groundnut, Cotton, Sesame, Wheat, Cumin, Chickpea, Onion, Garlic **Enterprises:** Dairy business, Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds	(1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3) *Phytophthora* disease in sesame (4) White grubs infestation in groundnut (5) Stem rot infestation in groundnut (6) Wilt and blight in cumin &Chickpea	(1) IPM and INM in major crops of this area (2) Increase drainage of soil (3) Motivate to farmers for arid horticultural crops (4) Efficient use of irrigation water (5) Judicious use pesticides
Tankara	Otala Saraya Neknam Lakhdhirgadh Bhutkotda	**Crops:** Groundnut, Cotton, Sesame, Wheat,Cumin, Chickpea,Onion, Garlic **Enterprises:** Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds	(1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3)*Phytophthora* disease in sesame (4) White grubs infestation in groundnut (5) Stem rot infestation in groundnut (6) Wilt and blight in cumin&Chickpea (7) Nutritional deficiency in animal feed and fodder (8) Less area under horticultural crops	(1)IPM and INM in major crops of this area (2) Increase the drainage of soil (3) Efficient use of irrigation water (4) Judicious use pesticides

Wankaner	Palas Panchdwarka Shekhradi Amarsar Pipaliya raj	**Crops:** Groundnut, Cotton, Sesame, Wheat, Cumin, Chickpea, Onion, Garlic **Enterprises:** Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds	(1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3)*Phytophthora* disease in sesame (4) White grubs infestation in groundnut (5) Stem rot infestation in groundnut (6) Wilt and blight in cumin (7) Nutritional deficiency in animal feed and fodder (8) Long inter calving period in buffalo (8) Less area under horticultural crops	(1) IPM and INM in major crops of this area (2) Reducing calving period in buffalo (3) Motivate to farmers for arid horticultural crops (4) Efficient use of irrigation water (5) Judicious use pesticides

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Groundnut, Sesame etc	Increasing the productivity of the major crops by adopting 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. Recycling of the cotton stalk by cotton shredder
Agriculture	Developing interest among youth for agriculture as a profession.
Horticulture	Value addition in agriculture produces through proper grading, processing, marketing and information technology.
Farm waste	Recycling of the warm waste through composting, vermi-composting and green manuring.
Income generating activities	Self-employment among rural youth and skill oriented income generating activities.
Spices crop	Adopt recommended practice of IDM in spices crop i.e. Cumin &Ajwain.

2.9. Information of FPO in Morbi District:

Sr. No.	Name of FPO	Taluka	No. of farmers Registered	Year of Registration
1	B Kishan Farmers Producer Co. Ltd	Morbi	300	2021
2	VT SPNFMorbi Producer Co. Ltd.	Tankara	150	2022
3	Halvad-Maliya SPNF Producer Co. Ltd.	Halvad	140	2022
4	Wankaner Taluka Agri. Produce Co-Op. Society Ltd.	Wankaner	300	2022
5	Tankara Taluka Agri. Produce Co-Op. Society Ltd.	Tankara	305	2022
6	Maliya Taluka Mahila Agri. Produce Co-Op. Society Ltd.	Maliya	300	2022
7	Morbi Taluka Agri. Produce Co-Op. Society Ltd.	Morbi	300	2022
8	Halvad Taluka Agri. Produce Co-Op. Society Ltd.	Halvad	109	2022

3. TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
3	3	9	9	7	7	70	70

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
36	39	930	1875	-	78	-	10353

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
21.00	2.63	100	100

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

B. Abstract of interventions undertaken

Sl. No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)
1	Bt. cotton	Sucking Pest, Para Wilt, Pink Boll Worm	Halvad, Tankara, Wakaner, Morbi block	FLD on pink boll worm management. Training on pink boll worm management
2	Groundnut	White Grub Stem Rot	Tankara , Halvad block	OFT on White grub management in groundnut. Training on pest and Disease management in groundnut.
3	Cumin	Wilt and Blight	Morbi, Halvad, Maliya	FLD and OFT on Wilt management and also training for IDM in Cumin.
4	Pomegranate	Seed rot and nematode	Morbi, Halvad and Maliya	Training programme and crop seminar

3.2 On Farm Trials (OFT)

A. 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
1	2	3	4	5	6	7	8			9	10
Ground nut	Limited irrigation	Heavy infestation of white grub in groundnut	Management of White Grub in Groundnut crop	3	1. Seed treatment with Imidacloprid 600 F.S. 4 ml/kg seed. 2. Soil application of *Metarhizium anisopliae* @ 5 kg/ha with 300 kg/ha castor cake at the time of sowing	Yield and percentage of dry plant	**T_1**	**T_2**	**T_3**	2.69 per cent higher yield received over farmer practice in T_2 where as 11.89 per cent higher in T_3 over farmer practice.	Application of *Metarhizium anisopliae* @ 5 kg/ha with 300 kg/ha castor cake at time of sowing remain effective to some extent.
							Pod damage (%)				
							4.1	3.2	2.8		
							Dry plants (%)				
							9.4	5.1	4.4		
Cumin	Irrigated	Heavy incidence of blight disease in cumin	Minimize the disease intensity through line sowing in cumin crop	3	1. Sowing of cumin at 30 cm distance between two raw. 2. Sowing of cumin at 15 cm distance between two raw	Yield and score of blight disease	**Blight score (1-9)**			5.59 percent higher yield was obtained in T_2 and 12.26 percent higher in T_3 than farmer practice.	line sowing in cumin crop is very effective to control the blight disease
							T_1	**T_2**	**T_3**		
							3.00	2.00	1.33		
Sesame	Irrigated	Low yield of sesame in summer	Assessment of new variety of sesame	3	1. G Til – 3 2. G J Til – 5	Yield, No. of branches and No. of capsules	**T_1**	**T_2**	**T_3**	12.10 per cent higher yield obtained in T_2 and 24.81 per cent higher in T_3 than farmer practice.	GJT – 5 is bold and white seeded and higher yielder (summer).
							No. of branches/plant				
							5.33	5.67	6.67		
							No. of capsules/plant				
							47.00	56.33	60.67		

2. Contd..

Technology Assessed	Source of Technology	Production	unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
11	**12**	**13**	**14**	**15**	**16**
OFT-1					
T_1 Sowing of groundnut without Seed treatment. Farmers adopt drenching of Chlorpyrifos or Quinalphos @ 6 lit/ha with irrigation at initiation of pest incidence. (Farmers practice)	-	1872	kg/ ha	54859	1.99
T_2 Seed treatment with Imidacloprid 600 F.S. 4 ml/kg seed. (JAU Reco-2020)	Junagadh Agriculture University	1922	kg/ ha	57175	2.00
T_3 Soil application of *Metarhizium anisopliae* @ 5 kg/ha with 300 kg/ha castor cake at the time of sowing. (JAU Reco-2020)	Junagadh Agricultural University	2095	kg/ ha	64449	2.09
OFT-2					
T_1 Sowing of cumin with broad casting method (Farmer practice)	-	924	kg/ ha	153729	2.85
T_2 Sowing of cumin at 30cm distance between two rows (Recommended practices.)	Junagadh Agriculture University	976	kg/ ha	165956	2.98
T_3 Sowing of cumin at 15 cm distance between two rows (Intervention).	-	1038	kg/ ha	180943	3.14
OFT-3					
T_1 G Til - 2 or Local (Farmer Practice).	Junagadh Agricultural University	1138	kg/ ha	65480	2.36
T_2 G Til – 3 (JAU Recommendation for *Kharif* & *Summer*)		1276	kg/ ha	79247	2.64
T_3 GJ Til – 5 (JAU Recommendation for *Summer*)		1420	kg/ ha	93713	2.94

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

OFT-1 (Completed three years)

1	Title of Technology Assessed	:	Management of white grub in groundnut crop.
2	Problem Definition	:	Heavy infestation of white grub in ground nut.
3	Details of technologies selected for assessment	:	Soil application of *Metarhizium anisopliae* @ 5 kg/ha with 300 kg/ha castor cake at the time of sowing..
4	Source of technology	:	Junagadh Agricultural University
5	Production system and thematic area	:	Integrated pest management.
6	Performance of the Technology with performance Indicators	:	-----
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques	:	Matrix scoring is 8 out of 10 done by farmer.
8	Final recommendation for micro level situation	:	Sowing of groundnut with application of *Metarhizium anisopliae* @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub.
9	Constraints identified and feedback for research	:	-----
10	Process of farmer's participation and their reaction	:	Seed treatment is the best and cheapest method for management of white grub.

OFT-2 (Completed three years)

1	Title of Technology Assessed	:	Minimize the disease intensity through line sowing in cumin crop
2	Problem Definition	:	Fifteen to twenty percent yield reduction due to blight disease
3	Details of technologies selected for assessment	:	Sowing of cumin at 15 cm distance between two rows
4	Source of technology	:	Junagadh Agricultural University, Junagadh
5	Production system and thematic area	:	Integrated disease management.
6	Performance of the Technology with performance Indicators	:	-----
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques	:	Disease Score
8	Final recommendation for micro level situation	:	Line sowing (15 cm) in cumin crop is very effective to control the blight disease
9	Constraints identified and feedback for research	:	-----
10	Process of farmer's participation and their reaction	:	Line sowing is the best and cheapest method for management of blight disease.

OFT-3 (Completed three years)

1	Title of Technology Assessed	:	Assessment of new variety of sesame
2	Problem Definition	:	Low yield of sesame in summer.
3	Details of technologies selected for assessment	:	New variety of sesame (GJT-5)
4	Source of technology	:	Junagadh Agricultural University, Junagadh
5	Production system and thematic area	:	Varietal Evaluation
6	Performance of the Technology with performance Indicators	:	-----
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques	:	-----
8	Final recommendation for micro level situation	:	GJT – 5 is bold and white seeded and higher yielder (summer).
9	Constraints identified and feedback for research	:	Nil
10	Process of farmer's participation and their reaction	:	GJT – 5 is bold and white seeded and higher yielder (summer).

3.3 Frontline Demonstrations:

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

List of technologies demonstrated during previous year and popularized during *Rabi* 2023-24, Summer 2024 and *Kharif* 2024 recommended for large scale adoption in the district.

Sr. No	Crop/ Enterprise	Variety	Thematic Area*	Technology Demonstration	Horizontal spread of technology		
					No. of villa.	No. of farmer	Area in ha
1	2	3	4	5	6	7	8
1	Cumin	GC – 5	Crop Improvement	Improved variety	30	125	93
2	Chickpea	GG-5	Crop Improvement	Improved variety	114	356	239
3	Sesame	GT – 6	Crop Improvement	Improved variety	26	54	35
4	Pearl Millet	GHB-1129	Crop Improvement	Improvedbio fortified hybrid	15	45	18
5	Groundnut	GJG-32	INM	*Rhizobium* Culture	44	271	215
6	Groundnut	GJG-32	Crop Improvement	Improved variety	50	301	223
7	Cotton	Bt Cotton	IPM	Management of pink ball worm through MDP	11	28	31

B. Details of FLDs implemented:

Sr. No.	Crop	Variety	Thematic area	Technology Demonstrated	Season and year	Area (ha)	No. of farmers/ Demonstration		
							SC/ST	Others	Total
1	Cumin	GC – 5	Crop Improvement	Improved variety	*Rabi* 2023-24	4.0	1	9	10
2	Chickpea	GG-5	Crop Improvement	Improved variety	*Rabi* 2023-24	4.0	2	8	10
3	Sesame	GT – 6	Crop Improvement	Improved variety	Summer 2024	4.0	0	10	10
4	Pearl Millet	GHB-1129	Crop Improvement	Improvedbio fortified hybrid	Summer 2024	4.0	3	7	10
5	Groundnut	GJG-32	INM	*Rhizobium* Culture	*Kharif* 2024	4.0	1	9	10
6	Groundnut	GJG-32	Crop Improvement	Improved variety	*Kharif* 2024	4.0	1	9	10
7	Cotton	Bt Cotton	IPM	Management of pink ball worm through MDP	*Kharif* 2024	4.0	2	8	10

C. Performance of Frontline Demonstrations

(I) FLD on Oilseed Crops:

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmer	Area (ha)	Yield (q/ha)				% Increased in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Aver-age										
Groundnut	INM	*Rhizobium* Culture	GJG-32	10	4.0	24.55	13.13	17.71	16.75	5.70	55500	99165	43665	1.79	55000	93814	38814	1.71
Groundnut	Crop Improvement	Improved variety	GJG-32	10	4.0	31.50	12.23	20.16	18.01	11.94	55500	112895	57395	2.03	53350	100855	47505	1.89
Sesame	Crop Improvement	Improved variety	GT-6	10	4.0	15.50	11.25	13.38	12.05	10.98	48320	133770	85450	2.77	48320	120540	72220	2.49

(II) FLD on Pulses Crops

Crop	Thematic Area	Technology Demonstrated	Variety	No. of Farmer	Area (ha)	Yield (q/ha)				% Increased in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Aver-age										
Chickpea	INM	*Rhizobium* Culture	GG-5	10	4.0	25.00	11.25	17.75	17.27	2.78	47790	97270	49480	2.04	47670	94640	46970	1.99

(III) Frontline Demonstration on Nutri cereals :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Aveg.										
Bajra																		
Pearl-millet	Crop Improvement	Improved variety	GHB-1129	10	4.0	30.77	25.72	28.08	28.15	-0.26	48900	77215	28315	1.58	48900	71783	22883	1.47

(IV) FLD on otherCrops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cotton										Ball damage (%)									
Cotton	IPM	MDP	10	4.0	22.98	17.10	19.44	18.50	5.08	1.47	4.35	59900	132192	72292	2.21	56700	125800	69100	2.22
Cumin																			
Cumin	Crop Improvement	Variety GC-5	10	4.0	12.31	6.88	9.30	8.24	12.90	-	-	82915	238154	155239	2.87	82915	210944	128029	2.54

D . Technical Feedbacks:

(I)Technical feedbacks on demonstrated technologies

No.	Feed Back
1.	Variety GJG–32 is resistant against tikka and rust disease in heavy rainfall condition as compared to TG-45,GJG–22,TAG–24.
2.	Application of *Metarhizium anisopliae* @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub in groundnut.
3.	Line sowing in cumin crop is very effective to control blight disease
4.	Pheromone trap is very useful for mass trapping of pink boll worm moth in cotton crop.
5.	Chickpea variety GG-5 is high yielding as well as disease resistant compared to GG-2, GJG-3.
6.	Sesame GJT–5 is bold and white seeded and higher yielder (summer).

(II)Farmer's Feedback:

No.	Feed Back
1.	Research needs for control of insect-pest and disease in organic& natural farming farming.
2.	Salinity problem in Maliya, Halvad and part of Morbi taluka.
3.	Seed rot problem in pomegranate fruit.
4.	Nematode problem in pomegranate crop.
5.	Variety GJG–32 is resistant against tikka and rust disease in heavy rainfall condition as compared to TG-45,GJG–22,TAG–24.
6.	Wilt in cumin Crop.(GC-4)
7.	Chickpea variety GG-5 is resistant to wilt &blight and change of adverse condition (Chilling effect) as comparedto GG-2 and GJG-3.
8.	For better germination socking of cumin GC-4 seed in water for 2 to 4 hrs. Then dry in shade.
9.	Pod borer problem in groundnut.
10.	Soft rot disease on onion.

3.4 Farmers training programmes:

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Cropping Systems	2	47	30	77	7	0	7	54	30	84
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	1	44	0	44	0	0	0	44	0	44
Integrated nutrient management	2	49	24	73	2	0	2	51	24	75
Total	**5**	**140**	**54**	**194**	**9**	**0**	**9**	**149**	**54**	**203**
II Horticulture										
Seed production technology in vege.	0	0	0	0	0	0	0	0	0	0
Scientific culti.of spices crops.	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
III Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Plant Protection										
Integrated Pest Management	1	6	22	28	0	2	2	6	24	30
Integrated Disease Management	1	32	0	32	6	0	6	38	0	38
Bio-control of pests and diseases	2	14	40	54	2	0	2	16	40	56
Judicious use of pesticides	1	7	28	35	3	0	0	10	28	38
Total	**5**	**59**	**90**	**149**	**11**	**2**	**13**	**70**	**92**	**162**
V Soil health										
Importance of soil health card	0	0	0	0	0	0	0	0	0	0
Role of macro and micro nutrients	1	6	24	30	0	0	0	6	24	30
Importance of soil analysis.	0	0	0	0	0	0	0	0	0	0
Total	**1**	**6**	**24**	**30**	**0**	**0**	**0**	**6**	**24**	**30**
GRAND TOTAL	**11**	**205**	**168**	**373**	**20**	**2**	**22**	**225**	**170**	**395**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of ourses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Cropping Systems	1	29	0	29	2	0	2	31	0	31
Integrated Farming	1	10	241	251	0	27	27	10	268	278
Integrated Crop Management	4	125	8	133	10	0	10	135	8	143
Integrated nutrient management	2	50	0	50	5	0	5	55	0	55
Total	**8**	**214**	**249**	**463**	**17**	**27**	**44**	**231**	**276**	**507**
II Horticulture										
Scientific cultivation of spices crops.	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
III Home Science/Women empowerment										
Value addition	0	0	0	0	0	0	0	0	0	0
Women empowerment	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Plant Protection										
Integrated Pest Management	2	44	24	68	4	2	6	48	26	74
Integrated Disease Management	1	23	0	23	2	0	2	25	0	25
Bio-control of pests and diseases	3	93	0	93	8	0	8	101	0	101
Judicious use of pesticides	2	28	241	269	3	27	30	31	268	299
Total	**8**	**188**	**265**	**453**	**17**	**29**	**46**	**205**	**294**	**499**
V Soil Health and Fertility Management										
Importance of soil health card and soil & water testing	0	0	0	0	0	0	0	0	0	0
Role of macro and micro nutrients	1	47	0	47	4	0	4	51	0	51
Information regarding Bio-fertilizer application in different crops.	1	26	0	26	2	0	2	28	0	28
Total	**2**	**73**	**0**	**73**	**6**	**0**	**6**	**79**	**0**	**79**
GRAND TOTAL	**18**	**475**	**514**	**989**	**40**	**56**	**96**	**515**	**570**	**1085**

Farmers' Training including sponsored training programmes – CONSOLIDATED (on + off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Cropping Systems	3	76	30	106	9	0	9	85	30	115
Integrated Farming	1	10	241	251	0	27	27	10	268	278
Integrated Crop Management	5	169	8	177	10	0	10	179	8	187
Integrated nutrient management	4	99	24	123	7	0	7	106	24	130
Total	**13**	**354**	**303**	**657**	**26**	**27**	**53**	**380**	**330**	**710**
II Horticulture										
Scientific culti. of spices crops.	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
III Home Science/Women empowerment										
kitchen gardening	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Plant Protection										
Integrated Pest Management	3	50	46	96	4	4	8	54	50	104
Integrated Disease Management	2	55	0	55	8	0	8	63	0	63
Bio-control of pests and diseases	5	107	40	147	10	0	10	117	40	157
Judicious use of pesticides	3	35	269	304	6	27	30	41	296	337
Total	**13**	**247**	**355**	**602**	**28**	**31**	**56**	**275**	**386**	**661**
V Soil Health and Fertility Management										
Importance of soil health card.	0	0	0	0	0	0	0	0	0	0
Role of macro and micro nutrients	2	53	24	77	4	0	4	57	24	81
Information regarding Bio-fertilizer.	1	26	0	26	2	0	2	28	0	28
Total	**3**	**79**	**24**	**103**	**6**	**0**	**6**	**85**	**24**	**109**
GRAND TOTAL	**29**	**680**	**682**	**1362**	**60**	**58**	**118**	**740**	**740**	**1480**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Management	1	30	2	32	7	0	7	37	2	39
Natural Farming	2	77	0	77	15	0	15	92	0	92
TOTAL	**3**	**107**	**2**	**109**	**22**	**0**	**22**	**129**	**2**	**131**

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

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Natural Farming	0	0	0	0	0	0	0	0	0	0
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (on + off Campus)

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop Management	1	30	2	32	7	0	7	37	2	39
Natural Farming	2	77	0	77	15	0	15	92	0	92
TOTAL	**3**	**107**	**2**	**109**	**22**	**0**	**22**	**129**	**2**	**131**

Sponsored / Collaborative Training with other Organizations

Discipline	Sponsoring Agency	Clients	Title of The Training Programme	No. of Course	No. of Participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
Horticulture	Department of Horticulture, Morbi	PF	Honeybee keeping	1	32	0	32	6	0	6	**38**
Crop production	AKRSP, Wankaner	PF	Preparation of jivamrut and its role in crop production	1	6	22	28	0	2	2	**30**
Plant protection	AKRSP, Morbi	PF	Pest and disease management in kharif crops through seed treatment	1	44	0	44	0	0	0	**44**
Horticulture	ATMA, Morbi	PF	Scientific cultivation of spices	1	22	0	22	0	0	0	**22**
Crop production	ATMA, Morbi	PF	Integrated nutrient management in kharif crops	1	22	0	22	0	0	0	**22**
Plant protection	DAO, Morbi	EF	Natural farming	1	25	0	25	5	0	5	**30**
Crop production	Gujarat Agro Industries	PF	Management of parthenium weed and waste management	1	57	15	72	4	2	6	**78**
Total				**7**	**208**	**37**	**245**	**15**	**4**	**19**	**264**

Details of vocational training programmes carried out by KVKs for rural youth(4 or more days): Nil

3.4. Extension Programmes

Activities	No. of Programmes	No. of Farmers	No. of Extension Personnel	TOTAL
Advisory Services	372	73276	0	**73276**
Diagnostic visits	8	50	12	**62**
Field Day	0	0	0	**0**
Kisan Ghosthi	2	69	0	**69**
Lecture delivered	10	6909	50	**6959**
Kisan Mela\Exhibition	1	649	8	**657**
Scientists' visit to farmers field	8	70	0	**70**
Farmers' seminar/workshop	3	760	4	**764**
Celebration of parthenium week	0	0	0	**0**
Celebration of agricultural technology week	5	577	0	**577**
Special day celebration	4	546	0	**546**
Farmers visit to KVK	12	1031	0	**1031**
Soil and water sample tested	69	38	0	**38**
Live broadcast of PM Kisan Samman Nidhi	1	24	0	**24**
Agriculture drone demonstration.	2	93	0	**93**
Farmers guide through phone	12	825	0	**825**
Farmers night meeting	0	0	0	**0**
Awareness programme on natural farming	2	32	0	**32**
Viksit Bharat Sanklap Yatra	2	720	10	**730**
Swachhta Abhiyan	6	183	0	**183**
Total	**519**	**85852**	**84**	**85936**

Details of other Extension Programmes:

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	-
Newspaper coverage	6
Popular articles	-
Radio Talks	1
TV Talks	-
Animal health amps (Number of animals treated)	-
Social Media (No. of platforms Used)	2
Others (Distribution of extension literature)	1001
Total	**1010**

3.5 Online activities during year 2024

Sl. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc)	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training: Nil				
B	Farmers scientist's interaction programme: Nil				
C	Farmers seminars:Nil				

3.6. PRODUCTION OF SEEDS/PLANTING MATERIALS AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Oilseeds	Sesame (Breeder)	GT-5	-	1.61	48300	-
Vegetables	Onion (Truthful)	GJWO-3	-	0.16	19200	20
Spices	Cumin (Truthful)	GC – 4	-	1.47	95550	70
Total				**3.24**	**163050**	**90**

Production of planting materials by the KVK: Nil

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

A. KVK News Letter :4 (JAU news letter)

B. Literature developed/published

Item	Title	Authors name	Number
Research papers	NA	-	-
Technical reports	SAC, Annual, ZEARC, AGRESSCO	-	5
News letters	JAU, news letters	-	4
Technical bulletins	-	-	-
Pamphlets	-	-	-
Popular articles	-	-	-

C. Details of Social Media Platforms Created / Used

Sl. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel	-	-
2	Facebook page/ Account	-	-
3	Mobile Apps	-	-
4	WhatsApp groups	22	6105
5	Twitter Account	@Kvkmorbi	10
6	Any other (Pl. Specify)	-	-

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

- IPM in Cotton-Use of Trap crop, Pheromone trap, MDP etc.
- Minimizing the chemical Fertilizer and Maximizing organic manure.
- Value addition in different agriculture crops like groundnut, sesame etc.
- Natural farming
- Use of drone in agriculture

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
Dy. Director of Agriculture.	Most of the Organizations are members of Scientific Advisory Committee (SAC) of KVK and have linkage with different activities of KVK *viz*., Training Programme, Khedut Sibir, Farmers day, Animal health Camp, Farmers fair, Film Show, Ex-training meeting and Soil health card etc**.**
Dy. Director of Agril. Extension (FTC)	
Dy. Director of Horticulture	
Dy. Director of Animal Husbandry	
District Agriculture officer	
Jilla Udhyong Kendra	
NHRDF	
Door darshan Kendra	
All India Radio	
District Rural Development Agency(DRDA)	
ATMA	
District Watershed Development Agency (DWDA)	
GGRC	
Reliance foundation	
GSFC, GNFC	
IFFCCO	
KRIBHCO	
ANANDI NGO	

B. 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:

Yes, we have prepared the SREP of Morbi district.

Coordination activities between KVK and ATMA

Sl. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
1	Meetings	5	5	-	-
2	Research projects	-	-	-	-
3	Training programmes	2	2	-	
4	Demonstrations	-	-	-	-
5	Extension Programmes	-	-	-	-
	Kisan Mela	1	1	1	-
	Technology Week	1	1	1	-
	Exposure visit	-	-	-	-
	Exhibition	-	-	-	-
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	-	-	-	-
6	**Publications**				
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
7	**Other Activities** (Pl.specify)				
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-

7. Technology Week celebration during-2024:

Period of observing Technology Week: From **23rd to 27thSeptember 2024**

Online / offline: offline

Total number of farmers visited : 577

Total number of agencies involved : 4

Number of demonstrations visited by the farmers within KVK campus: 3

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	1	41	INM
Lectures organized	9	536	Groundnut/ Cotton/ Black gram/Natural farming
Exhibition	-	-	-
Film show	-	-	-
Fair	-	-	-
Farm Visit	5	577	Sesame, Cotton
Diagnostic Practicals	2	15	Chilli and cotton
Supply of Literature (No.)	5	577	Natural farming
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen (No.)	-	-	-
Total number of farmers visited the technology week	-	577	-

8. IMPACT

Cases of large scale adoption

OFT –1

OFT on white grub management was conducted for last two (with modification of treatments) year in which Imidacloprid 600 F.S. 4 ml/kg seed (JAU Reco.2020).Second treatment of *Metarhizium anisopliae* @ 5 kg + 300 kg castor cake at the time of sowing (JAU recommendation).

(1) Most of the farmers are adopting seed treatment for white grub management. in Morbi district white grub problem is observed in Tankara taluka, farmers following university recommendation and other new technical (insecticides) developed recently.
(2) *Metarhizium* is best for white grub as well as soil pests damaging groundnut but it is not available in market. most of farmers trust in university bio-product (now not available).

Taluka wise adoption :

Sr No.	Name of Taluka	Sowing without seed treatment T_1	T_2	T_3
1.	Tankara	26.67%	70.0%	3.33%
2.	Wankaner	24.00%	68.00%	8.00%
3.	Halvad	28.00%	68.00%	4.00%
4.	Morbi	20.00%	80.00%	NIL
5.	Maliya	30.00%	70.00%	NIL

9. Kisan Mobile Advisory Services : NIL

10. PERFORMANCE OF INFRASTRUCTURE IN KVK

Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Roof Rain water harvesting system	2019-20	1.40 lac lit.	-	Drinking Water	1.40 lac L	4.6 lacs	-	-
2	Farm pond	2018-19	1.0ha	-	-	150 lac L	2.0 lacs	-	-
3	Nadep Compost	2019-20	18 m^2	-	Compost	5000 kg	10000	-	-

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (q)	Cost of inputs	Gross income	
Oilseeds									
Sesame	19/02/24	04/06/24	1.00	GT-6	General	0.54	-	13500	-
Sesame	13/06/24	09/10/24	1.50	GT-5	Breeder	1.61	-	48300	-
Pulses									
Black Gram	14/07/24	21/09/24	0.90	GU – 2	General	0.48	-	5760	-
Spices & Plantation crops									
Cumin	05/11/23	25/02/24	1.00	GC-4	Truthful	1.47	-	95550	-
Cumin	05/11/23	25/02/24	1.00	GC-4	General	0.14	-	8680	-
Vegetables									
Onion	05/11/23	20/03/24	0.20	GJWO-3	Truthful	0.16	-	19200	-
Total			**5.6**			**4.40**		**1,90,990**	

C. Performance of Nutritional Garden at KVK farm :

If Nutritional Garden developed at KVK farm/Village Level? No

11.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	SBI	Morbi	60071	Revolving Fund A/CKVKJAU Morbi	36713882996	363002022	SBIN0060071
With KVK	SBI	Morbi	60071	Senior Scientist & Head KVKJAU Morbi	36713882907	363002022	SBIN0060071
With KVK	SBI	Morbi	60071	Out Scaling of Natural Farming KVK JAU Gorkhijadia	42071357581	363002022	SBIN0060071
With KVK	SBI	Morbi	60071	Gen Fund Acc Krishi Vigyan Kendra Morbi	37470516605	363002022	SBIN0060071

B. Utilization of KVK funds during the year 2024-25 (Rs. in lakh)(Till Dec, 2024)

No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	77.13	77.13	68.10
2	**Traveling allowances**	0.50	0.50	0.06
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	7.50	7.50	7.26
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A+B+C+D+E+F+G+H+I+J)		**7.50**	**7.50**	**7.26**
TOTAL Recrring		**85.13**	**85.13**	**75.43**
B. Non-Recurring Contingencies				
1	**Works**	-	-	-
2	**Equipments including SWTL & Furniture**	-	-	-
3	**Vehicle** (Four wheeler / ~~Two wheeler~~, please specify)	-	-	-
4	**Library** (Purchase of assets like books & journals)	-	-	-
TOTAL		-	-	-
GRAND TOTAL (A+B)		**85.13**	**85.13**	**75.43**

C. Status of revolving fund (Rs. in lakh) for the three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2022 to March 2023	7.28	6.86	2.00	12.14
April 2023 to March 2024	12.14	5.91	0.54	17.51
April 2024 to Dec-2024	20.40	0.43	0.56	**20.27**

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/offline)	Dates
Mr. V.V. Thakor	Agriculture officer	Training on Research Methodology in Social Science and Management Skills	JAU, Junagadh	Offline	19-21/03/24
Mr. G.S. Zala	Agriculture officer	Training on Research Methodology in Social Science and Management Skills	JAU, Junagadh	Offline	19-21/03/24
Dr. K.N. Vadaria	Scientist (Agronomy)	Training cum Exposure Visit on Natural Farming for the Master Trainers	UAS, GKVK, Bangalore	Offline	25-29/03/24
Dr. K.N. Vadaria	Scientist (Agronomy)	Regional Consultation on Science of Natural Farming	YASHADA, Pune, Maharashtra	Offline	16/03/24
Prof. M.F. Bhoraniya	Senior Scientist and Head	To present Annual Action Plan and Natural Farming in Workshop	AAU, Anand	Offline	16-17/05/24

Dr. K.N. Vadaria	Scientist (Agronomy)	Emerging Challenges and Opportunities in Biotic and Abiotic Stress Management (ECOBASM-2024)	ASTHA FOUNDATION, MEERUT (UTTAR PRADESH)	Online	10-30/08/24
Prof. M.F. Bhoraniya	Senior Scientist and Head	Climate Change Scenario : Impact on Agriculture & Allied Sciences (CCSIAS-2024)	ASTHA FOUNDATION, MEERUT (UTTAR PRADESH)	Online	16-30/09/24
Dr. K.N. Vadaria	Scientist (Agronomy)	Recent Advances in Agrostology cum Pasture & Forage Research for Doubling Crop & Livestock Production	DUVASU Mathura, UP & NADCL Baramulla, J & K	Online	22/11 to 12/12/24
Prof. M.F. Bhoraniya	Senior Scientist and Head	Seminar "Agricultural Extension for Viksit Bharat: Innovations and rategies for Sustainable Development"	NAU, Navsari	Offline	27-28/12/24

13. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before	After
Jepur, Haripar, Halvad, Tikar, Ranmalpur, Bagthala etc.	110	-	-	-	-

14. Details of SAP

S. No.	Types of major Activity conducted- SwachhtaPakhwada, Cleaning, Awareness Workshop, Miccobial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	Cleaning and Sweeping of entire office premises / cleaning of KVK campus, Swachhta Awareness at local level, Cleaning and beautification of surrounding areas, Vermi composting and other activities on generate of wealth for waste.	9	217