ICAR-ATARI, Pune

ANNUAL ACTION PLAN OF KVKs DURING 2024

(1st January 2024 to 31st December 2024)

1. GENERAL INFORMATION ABOUT THE KVK-Junagadh

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

Address with PIN code	Telephone		E mail	Website address
	Office	FAX		
Krishi Vigyan Kendra PO.: Ambujanagar, Tal.: Kodinar 362 715 District: Gir Somnath (Guj.)	(02795) 232363	(02795) 232363	kvk.girsomnath@gmail.com	https://sites.google.com/view/kvk-junagadh

1.2. Name and address of host organization with phone, fax and e-mail (Not of KVK)

Address with PIN code	Telephone		E mail	Website address
	Office	FAX		
Ambuja Cement Foundation, PO.: Ambujanagar, Tal.: Kodinar 362 715 District: Gir Somnath (Guj.)	(02795) 232163	(02795) 232163	chandrakant.kumbhani.ext@ambujafoundation.com	www.ambujacementfoundation.org

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

Name	Telephone / Contact		
	Office	Mobile	Email
Er. Jitendra Singh	(02795) 232363	7987365973	kvk.girsomnath@gmail.com jitendra.singh.ext1@ambujafoundation.com

1.4. Year of sanction& type of host organization: 2007, NGO (Ambuja Cement Foundation)

1.5. Staff Position (as on 31st December, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs. /month)
				Current Pay Band	Current Grade Pay		
1.	Senior Scientist and Head	Er. Jitendra Singh	Agri. Engineering	147900	Leavel -13A	03/06/19	-
2.	Subject Matter Specialist	Dr. Hansa P Gami	Home Science	84900	Leavel -10	23/06/08	-
3.	Subject Matter Specialist	Mr Ranjitsinh G Barad	Horticulture	84900	Leavel -10	08/07/08	-
4.	Subject Matter Specialist	Mr Manish J. Baldaniya	Agronomy	63100	Leavel -10	13/05/19	-
5.	Subject Matter Specialist	Mr Ramesh T Rathod	Plant Protection	77700	Leavel -10	17/06/11	-
6.	Subject Matter Specialist	Mr Satish T Hadiyal	Soil Science	71100	Leavel -10	25/07/14	-
7.	Subject Matter Specialist	Ms Pooja B. Nakum	Agricultural Extension	63100	Leavel -10	07/06/19	-
8.	Programme Assistant	Mr Rajendrasinh N Parmar	Fisheries science	58600	Leavel -6	17/06/08	-
9.	Computer Programmer	Mr Ajay M Dhanani	M. Com, B. Ed., PGDCA	58600	Leavel -6	16/06/08	-
10.	Farm Manager	Vacant					-
11.	Accountant/Superintendent	Mr Kiritsinh K Mori	B. Com, PGDCA	58600	Leavel -6	01/07/08	-
12.	Stenographer	Mr Balu J Vala	BA, GCC	38600	Leavel -4	16/06/08	-
13.	Driver 1	Mr Arjan K Vala	HSC, ITI (Diesel Mechanic)	33000	Leavel -3	16/06/08	-
14.	Driver 2	Mr Kanu N Pithiya	B A	33000	Leavel -3	01/07/08	-

15.	Supporting staff 1	Mr Ketan G Vala	B A	28800	Leavel -1	14/06/08	-
16.	Supporting staff 2	Mr Pruthvi D Gohil	10th	28800	Leavel -1	23/12/08	-

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	4.72
3.	Under Crops	4.50
4.	Horticulture	6.56
5.	Pond	0.15
6.	Others if any	3.34

1.7. Infrastructural Development:

A. Buildings

S. 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	ICAR	31/03/09	548.95	45.28	-	-	-
2.	Farmers Hostel	ICAR	31/03/09	303.60	30.23	-	-	-
3.	Staff Quarters (6)	ICAR	31/03/11	433.87	39.83	-	-	-
4.	Demonstration Units (2)					-	-	-
	1. Vermi compost & Vermi wash	ACF	31/03/09	20	00.45	-	-	-
	2. Drip Irrigation	ACF	28/02/10	-	04.95	-	-	-
	3. Soil & water testing lab	ACF	30/11/10		06.80	-	-	-
	4. Crop Cafeteria	ACF	31/03/11	-	00.60	-	-	-
	5. Fish Pond	ICAR	31/03/11	1500	03.04	-	-	-
	6. Leaf Tissue Analysis lab	NHM	31/03/12	-	18.00	-	-	-
	7. Model Nursery	NHM	31/03/12	-	24.92	-	-	-
	8. Community Radio Station (CRS)	ATMA	10/11/12	-	16.92	-	-	-
	9. Honey Bee	ACF	15/01/13	-	00.12	-	-	-
	10. Agri Mall	ACF	30/06/15	-	01.60	-	-	-

S. 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
	11. Azolla	ICAR	31/03/17	-	01.98	-	-	-
	12. NADEP	ICAR	31/03/17	-	00.25	-	-	-
	13. Bio-digester	ICAR	31/03/17	-	00.66	-	-	-
	14. Cattle Feed	ACF	29/01/18	-	06.80	-	-	-
5	Fencing / Boundary wall	ICAR	31/03/11	300 m	10.00	-	-	-
	Fencing / Boundary wall	ACF	31/03/15	500 m	20.00	-	-	-
6	Rain Water harvesting system					-	-	-
7	Threshing floor	ICAR	31/03/10	400	01.96	-	-	-
8	Farm godown	ICAR	31/03/11	53.87	03.51	-	-	-
9	ICT lab					-	-	-
10	Other					-	-	-
	Implement shed	ICAR	31/03/11	60.13	02.64	-	-	-
	Vehicle stand	ACF	31/03/14	80.06	01.24	-	-	-
	Security room	ACF	31/03/14	-	00.80	-	-	-
	Home Sci. Lab	ACF	31/08/18	58.40	05.36	-	-	-

B. Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2022-23	8,31,291	17078	working condition
Hero Honda(Two wheeler)	2008-09	49,000	73758	Not working condition
Tractor	2007-08	4,50,000	5032 (hrs)	working condition
Activa-Honda Bike (Funded by ACF)	2012-13	61000	38937	Not working condition

C. Equipment's& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Furniture for Office	2008-09	300000	Working condition
Computer with access.	2008-09	97750	Working condition
Generator	2008-09	93975	Working condition
Fax Machine	2008-09	10000	Working condition
EPABX	2008-09	48664	Working condition
Furniture & Furnishing of farmer Hostel	2008-09	500000	Working condition
Power Tiller	2008-09	150000	Working condition (Recently modified in Mini Tractor for better work)
Leveler	2008-09	25500	Working condition
Winnower	2008-09	35000	Working condition
Seed cum fertilizer	2008-09	40000	Working condition
Power sprayer	2008-09	30000	Working condition
Multicrop Thresher	2008-09	60000	Working condition
Groundnut Digger	2012-13	20000	Working condition
Groundnut Decorticator	2012-13	2400	Working condition
One computer and LCD Projector with access.	2015-16	99250	Nott in working condition
Digital Camera (Nikon)	2015-16	28000	Nott in working condition
EPABX	2016-17	29550	Nott in working condition
Audio system	2016-17	15500	Working condition
CC TV camera	2016-17	111435	Working condition
LCD – TV	2016-17	74000	Working condition
Kiosk Machine	2016-17	119280	Nott in working condition
Photocopier	2016-17	140000	Working condition
Projector with Screen	2022-23	41628	Working condition

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

Sl.No.	Particulars	Proposed date of meeting
1	Scientific Advisory Committee – Meeting 1	17.02.2024
2	Scientific Advisory Committee – Meeting 2	21.12.2024

2. DETAILS OF JURISDICTION AREA UNDER KVK (No. of talukas)

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

S. No	Farming system/enterprise	Names of talukas covered
1	Mono cropping (Groundnut- Wheat, Groundnut-Green gram, Cotton-sesame, Sugarcane – Wheat)	Kodinar, Sutrapada, Talala, Una, Veraval, Gir Gadhda
2	Intercropping (Cotton + Groundnut, Cotton + Sesame)	
3	Relay cropping (Groundnut with castor, Groundnut with pigeon pea)	
4	Horticultural crops i.e. Mango, Coconut, Sapota, Banana, papaya, Pomegranate	

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

a. Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	South Saurashtra Agro Climatic Zone	The average annual rainfall is 980 mm. the average temperature ranges with 5^{o} C minimum to maximum 46^{o} C. The soil is mostly mixed red and black, medium black and calcareous.

b. Topography

S. No.	Agro ecological situation	Characteristics
1	Medium black-with low rainfall	Land texture is Sandy clay to clay with average rain fall is below 750 mm and sea level is 25-75 m.
2	Deep Black Soil with low rainfall	Clay with average rain fall is below 750 mm and sea level is below 25m.
3	Mixed red and black soil with medium rainfall	sandy clay loam to clay loam with average rain fall is 750 to 1000 mm and sea level is below 25-75m
4	Medium black with medium rainfall	Silty clay to clay with average rain fall is 750-1000 mm and sea level is 25-75m.
5	Shallow black soil with medium rainfall	Sandy clay loam to clay with average rain fall is below 750 mm and sea level is 75-150m.
6	Coastal alluvial soil with medium rainfall	Sandy loam to silty clay loam with average rain fall is less than750 mm and sea level is 25-75m.
7	Rocky soil with medium rainfall	Sandy clay loam to clay loam with average rain fall is 750-1000 mm and sea level is 75-300m.
8	Forest soil	Sandy clay loam with average rain fall is more than 1000 mm and sea level is 150-300 m.

2.3. Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Medium black	Medium black-with low rainfall	4, 05,188
2	Deep black	Deep Black Soil with low rainfall	17,018
3	Mix red	Mixed red and black soil with medium rainfall	1, 17,938
4	Shallow black	Shallow black soil with medium rainfall	54594
5	Alluvial soil	Coastal alluvial soil with medium rainfall	1, 49,872
6	Rocky soil	Rocky soil with medium rainfall	82,640

2.4. Area, Production and Productivity of major crops cultivated in the dist.- Gir Somnath (Ref. Year 2021)

(Area "00" ha., Production "00" MT, Productivity Kg./ha)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Kg/ha)
1	Groundnut	1041.38	1426.89	1370.19
2	Wheat	493.60	2099.22	4252.87
3	Gram	288.42	609.01	2111.54
4	Cotton	125.10	314.13	426.87
5	Pearl millet	101.24	251.35	2482.75
6	Green Gram	86.92	106.19	1221.65
7	Black gram	69.31	95.26	1374.36
8	Soybean	52.85	45.58	919.15
9	Sugarcane	46.50	3614.31	77727.00
10	Banana	10.45	759.22	72653.00
11	Sorghum	5.53	6.83	1235.82
12	Maize	0.25	0.57	2273.01

*Source: District agriculture department.

2.5. Weather data (2023)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January 2023	0	28.84	10.68	77.32	47.20
February 2023		32.75	11.37	76.45	48.92
March 2023		32.72	17.32	80.85	53.07
April 2023	62	33.42	21.22	83.62	65.68
May 2023		34.35	255.47	77.42	71.47
June 2023	479	31.60	24.52	85.60	75.00
July 2023	591.2	29.68	24.78	90.60	88.66
August 2023	15	30.50	24.10	87.15	84.00

September 2023	94.6	31.85	23.37	82.85	80.95
October 2023		34.58	23.00	80.74	74.98
November 2023		34.17	19.82	73.60	72.80
December 2023		32.25	17.20	79.87	78.80
Total	**1241.8**				

Source of data (Main Sugarcane Research Station, JAU, Kodinar.)

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district (Ref. Year 2021-22)

Category	Population (No.)	Production (Per unit)	Productivity (Per unit)
Cattle			
Crossbred	13730	10657005	-
Indigenous	198796	140396685	-
Buffalo	193958	441527638	-
Sheep	22486	-	-
Goats	49163	-	-
Pigs	-	-	-
Crossbred	-	-	-
Indigenous	-	-	-
Rabbits	-	-	-
Poultry	-	-	
Hens	-	-	-
Desi	-	-	-
Category		-	-
Fish (Reservoir)		-	-
Fish (Farm ponds)		813284	

2.7. Details of Operational area / Villages

Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Gir Somnath	Dudana, Rakhej, Kaj, Valadar & Alidar	Groundnut, Soybean, Wheat, Gram, onion, Green gram and Mango orchard	Low productivity due to saline soil and water and lack of knowledge about use of the fertilizer and pesticides. Overuse of chemical fertilizer and pesticides, lack of seriousness about soil health	Promote less water consuming crop, promote IPM, IDM and INM technology and Value addition
	Zalana Vadodara, Gangetha & Chhagiya	Groundnut, cotton, Sugarcane , Wheat, Green gram, Sesame, and coconut orchard	Low productivity due to saline soil and water, lack of knowledge about use of the fertilizer and pesticides and lack of awareness about new technology in agriculture, Overuse of chemical fertilizer and pesticides	Promote less water consuming crop, training conducted on need base and promotion of INM, IPM and IDM technology. Introduction of high yielding variety
	Maljinjva, Shirvan & Bhojde	Groundnut, Cotton, Soybean, sugarcane. Green gram, Coriander. garlic Wheat, and Mango orchard	Not proper information and facility about fruits preservation, dieback & fruit fly damage is major problem, lack of seriousness about soil health	Motivation of farmer to grow horticultural crops, promote IPM, IDM and INM technology and Value addition through agro processing
	Sanakhda, Sayeed Rajapara & Kajardi	Groundnut, Cotton, Wheat, Sesame, Mango orchard and fisheries	Lack of knowledge about use of the fertilizer and pesticides, lack of awareness about new technology in agriculture and dieback & powdery mildew is major problem	Promote IPM, IDM and INM technology, conducted on need base trainings and promotion of INM, IPM and IDM technology, Introduction of high yielding variety and arrange a proper fish marketing channels.
	Jaragali, Vadviyala & Jamvala	Groundnut, Cotton, Sugarcane. Green gram, Onion, Wheat and Mango orchard	Lack of knowledge about use of the fertilizer and pesticides, lack of awareness about new technology in agriculture and powdery mildew is major problem	Conducted on need base trainings and promotion of INM, IPM and IDM technology, Introduction of high yielding variety and Value addition through agro processing
	Savani, Bhetadi & Chanduvav	Groundnut, Cotton, Castor, Wheat, Gram, Soybean, Mango and coconut orchards	Lack of knowledge about use of the fertilizer and pesticides. fruit fly damage is major problem in mango and eriyophyte mite is major problem in coconut	Conducted on need base trainings, promote IPM, IDM and INM technology and Value addition through agro processing

2.8. Priority thrust areas:

Sr. No	Crop / Enterprises	Thrust area
1	Groundnut and other oilseed crops	• INM: Integrated Nutrient Management • IDM: Integrated Disease Management
2	Cotton/Sugarcane	• ICM: Integrated Crop Management • IPM: Integrated Pest Management • IWM: Integrated Water Management
3	Cereals crops	• ICM: Integrated Crop Management • INM: Integrated Nutrient Management • IDM: Integrated Disease Management

4	Mango & Coconut	• IPM: Integrated Pest Management • IDM: Integrated Disease Management • INM: Integrated Nutrient Management
5	Seed production	• Seed production of Groundnut and wheat
6	Fisheries	• Fish production and their value addition
7	Animal Science	• Better production through livestock management practices
8	Home Science	• Entrepreneurship development and awareness through income generating activities like vermi composting, nursery, stitching & sewing and value addition in local agril. products including mango & groundnut • Popularization of drudgery reduction farm tools and implements

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
10	50	69+100*=169	314+250*= 564

*Proposed under oilseed and pulses (CFLDs)

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
105	2100	1590	7990

Seed Production (Qtl.)	Planting material (Nos.)	Livestock, poultry strains and Fish seed prod. (No's)	Soil, water and plant Samples
(5)	(6)	(7)	(8)
75.00	41000	80	1500

3.1. B. Operational areas details proposed during 2024

* Support with problem-cause and interventions diagram

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Groundnut, Soybean, wheat, coconut, chick pea, green gram, bajara	Low productivity due to soil salinity issue as well as over use of fertilizer.	580 ha	Chouhan ni Khan, Gohil ni khan, vadanagar, Devalpur, Kanjotar and anandpara	Conducted CFLD on Groundnut crop to Promote bio fertilizer, bio pesticide and bio fungicide, pheromone technology, INM technology and IDM

	and Black gram	Lack of knowledge about bio inputs uses and pheromone technology.			technology for the sustainable crop production and environment safety. Information given during training for high yielding variety.
2	Groundnut, Gram, Green Gram, Black Gram, Mango, Coconut	Low productivity due to saline soil and water and lack of knowledge about use of the fertilizer, pesticides. Overuse of chemical fertilizer and pesticides, lack of seriousness about soil health. Whitefly damage is major problem in coconut	530 ha	Kanakiya, Janjariya, Kodidra, Rampara, Prashnavada, Sindhaj, Mitiyaj, vadnagar, arnej, vasoj, shah desar, Chachar, Sugala, Singsar	Promote Natural farming, IPM and IDM, Conducted on need base trainings, Conducted CFLDs on pulses with organic input use.
3	Mango, coconut, brinjal, onion, chilli, turmeric	Low productivity due to saline soil and water and lack of knowledge about use of the fertilizer, pesticides and plastic mulch. Overuse of chemical fertilizer and pesticides, lack of seriousness about soil health	518 ha	Fareda, Zankhiya, Matana, Adpokar, Kadodara, Ronaj, Sonariya, Gangda, Kukras	Promote natural farming, IPM, IDM, INM, Plastic mulch,
4	Groundnut, Cotton, Pigeon pea and cumin	Lack of knowledge integrated approach more use of chemicals, water scarcity.	250 ha	Panidhara, Rangpur	Conducted CFLDs on pulses with use of biological inputs and micro nutrients to promote farmers on integrated approach
5	Natural Kitchen Garden	Lack of knowledge about layout plan and improved varieties	45	Rampara, Alidra, Khera	Promote natural kitchen gardening and promotion of bio productes
6	Spiral seed separate	Lack of knowledge about implement and not available	72	Moradiya, Lodhava, Solaj	Promotion of spiral seed separator to reduce drudgery in separation cleaning of grain seed

3.2. Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation			2							2
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management		1	1		1					3
Integrated Farming System										
Mushroom cultivation					1					1
Drudgery reduction										
Farm machineries										
Value addition	1									1
Integrated Pest Management	1					1				2
Integrated Disease Management					1					1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	**2**	**1**	**3**	**0**	**3**	**1**				**10**

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi culture	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

B. Details of On Farm Trials/ Technology Assessment proposed during 20224

Sr. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
1	Gram	Farmer use low yielded oldest variety	**Assessment of new gram variety (Gujarat Junagadh Gram-6) variety**	T2: Use of Improved variety of Chick pea (GJG-6) T3: Use of Improved variety of chick pea Phule Vikram	T2: JAU Junagadh T3: MPKV Rahuri	Seeds	75 kg/ha	7500 7500	5	**15000**	**Technical Indicator:** • 100 grain weight • Plant height • Yield **Economic Indicator:** • Cost of Production (Rs/ha), • Gross return: (Rs/ha), • Net return: (Rs/ha), • B:C Ratio	SMS Agronomy and Sr. Scientist and head
2	Green gram	Farmers use oldest variety GM-2/4 some long time	**Assessment of new Green gram variety (Gujarat Navsari Moong GNM-6) variety**	T2: Use of new improved variety of Green gram (GNM-6) T3: Use of new improved variety of Gujarat Anand Moong 5 (GAM-5)	T2: NAU, Navasari T3: AAU, Anand	Seeds	25 kg/ha	3500 3500	5	**7000**	**Technical Indicator:** • No of pods • Plant height • Yield **Economic Indicator:** • Cost of Production (Rs/ha), • Gross return: (Rs/ha), • Net return: (Rs/ha), B:C Ratio	SMS Agronomy and Sr. Scientist and head
3	Mango	Heavy incidence of mango hopper	Management of mango hopper	**T1: Farmer's Practices: -** Improper use of pesticides **T2 :** Two **s**prays of Thiamethoxam 25% WG (3.36 g/10 lit) or Imidacloprid 17.8 SL (2.80 ml/10 lit). First spray at flowering	T2: NAU, Navsari and T3 : AAU, Ananad	Thiamethoxam 25% WG or Imidacloprid 17.8 SL	210 gm 175 ml 6.24 lit	Rs.400/- Rs.440/- Rs.3300/-	5	**10350/-**	**Technical Indicator:** 1. % pest infestation. 2.Yield (q/ha) **Economic Indicator:**	SMS Plant protection and Sr. Scientist and head

Sr. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
				and second spray at 21 days after first spray **T3 :** Two sprays of azadirachtin 1500 ppm (50 ml+10 g. washing powder / 10 lit. water) First spray at ETL (5 hopper/inflorance) and second at 10 days after first spray		azadirachtin 1500 ppm					1.Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), 4. B:C Ratio	
4	Groundnut	Infestation of white grub in groundnut	Management of white grub in groundnut	**T1: Farmer's Practices: -** Injudicious use of pesticides. Use of chlorpyriphos, quinalphos, clothianidine, imidacloprid+ Fipronil, Thiamethoxam after infestation of white grub as post application. **T2:** Recommended dose of Pesticide as chlorpyriphos or quinalphos @ 25 ml/kg seed. Drenching of Chlorpyriphos or quinalphos @ 4 lit/ha as initiation of pest incidence **T3:** Application of ready mix combination of Imidacloprid 40% + Fipronil 40% WG@	T2 and T3 : JAU, Junagadh	Chlorpyriphos or Quinalphos Imidacloprid 40% + Fipronil 40% WG	2.8 lit 225 gm	Rs.1140/- Rs.3600/-	5	**11850/-**	**Technical Indicator:** 1. Record no. of grub per 1 meter row length. 2.Yield (q/ha) **Economic Indicator:** 1.Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), 4. B:C Ratio	SMS Plant protection and Sr. Scientist and head

Sr. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
				2.5 g/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% WG @ 250 g/ha as initiation of pest incidence								
5	Onion	Yield losses due to Nematode problem	**Refinements superior technology against nematode management in onion**	T2: organic formulation containing Pseudomonas luorescens & Trichoderma harzianum has to be sprayed on the plants at regular intervals of 30 days at a dosage of 5g/ lit or 5ml/ lit. T3: Use of EPN 1 kg/acer	T2: IIHR Bangalore T3: IARI, ICAR New Delhi	Organic Pesticides	2.5 kg/ha	1000/ha 3300/ha	5	**4300/-**	Technical Indicator: 1. No of Infested Plant/ Sq M. 2. Bulb diameter 3. Yield (q/ha)	SMS Horticulture and Sr. Scientist and head
6	Onion	No use of Bio fertilizer, Indiscriminate and excess use of chemical fertilizer	**Assessment of Bio fertilizer (Azospirilium and PSB) in onion**	T2: Application of RDF (75:60:50:25 NPKS kg/ha on soil test bases T3: 75 % NP with use of Bio fertilizer	DOGR Rajgurunagar	Bio fertilizer	Each 5 kg/ha	9000/ha 9800/ha	5	**18800/-**	Technical Indicator: 1. Bulb duaneter 2. Yield (q/ha.) Economic Indicator: 1. Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), 4. B:C Ratio	SMS Horticulture and Sr. Scientist and head
7	Chickpea	No use of micronutrient in Chickpea	**Effect of Micronutrient application in chickpea**	Application of 100 % RDF(N: P_2O_5- K_2O; 30:60:00 kg ha-1)+ No use of bio-fertilizers Application of 1% foliar spray of Government notified	JAU Junagadh 2021 AAU, Anand 2021	multi-micronutrient mixture Grade-V multi-micronutrient mixture either Grade II or I	40 kg/ha 11.25 kg/ha	3200/- 4500/-	5	**7700/-**	**Technical Indicator:** 1. 100 grain weight 2. Yield (q/ha.) **Economic Indicator:**	SMS Soil Science and Sr. Scientist and head

Sr. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
				multi-micronutrient mixture either Grade II (Fe: 6.0, Mn: 1.0, Zn: 4.0, Cu: 0.3 and B: 0.5 per cent) or Grade I (Fe: 2.0, Mn: 0.5, Zn: 4.0, Cu: 0.3 and B: 0.5 per cent) at 30, 45 and 60 days after sowing along with 20 kg N and 40 kg P_2O_5 /ha as basal							1.Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), B:C Ratio	
8	Soybean	Indiscriminate and excess uses of chemical fertilizers	**Assessment of Liquid Bio-fertilizer consortia (NPK) for nutritional management in Soybean**	Application of nitrogen @ 120 kg/ha in three splits (¼ as basal + ½ at 20 to 25 DAS + ¼ at 35 to 40 DAS) instead of two splits in addition to recommended dose of P2O5- K2O (60 - 60 kg ha-1) Application of 75% RDF(N: P_2O_5- K_2O; 22.5:45:00 kg ha-1)+ Seed treatment with NPK consortia (10 ml/kg seed)	IISR -2015	Urea SSP Urea SSP NPK Consortia	65kg/ha 375kg/ha 49kg/ha 281kg/ha 600 ml/ha	3615/- 2831/-	5	**6446/-**	**Technical Indicator:** 1. No of Pods/plant 2. Yield (q/ha.) **Economic Indicator:** 1.Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), **1.** Net return: (Rs/ha), B:C Ratio	SMS Soil Science and Sr. Scientist and head
9	Mushroom	Lack of knowledge about various type of oyster mushroom	Assessment of different varieties of oyster mushroom cultivaiton	T1: Dhingari mushroom T2: Sajor Kaju (grey) T3: Sajor Kaju (blue)	DMR, Solan	Spawn Saor Kaju Grey Spawn Saor Kaju Blue	2 Kg 2 Kg	4500	5	**4500/-**	1. Production kg/bag 2. Duration/day 3. B:C ration	SMS-Home Science & Senior Scientist & Head
10	Enterprise	Bajara flour turns bitter & racid during storage	**Assessment of dry heat treatment in improving the self-life of pearl millet flour**	T1: Direct milling of bajara flour T2: Dry heat treatment before milling(oven for 2 hours) T3: Blanching of seeds before milling	CCS, Haryana Agriculture University, Hisar MPKV, Rahuri	Bajara Bajara	20 Kg 20 Kg	750 750	5	**1500/-**	1. Increase in self-life (Days) 2. Overall acceptability (%)	SMS-Home Science & Senior Scientist & Head

1. Title: Assessment of new gram variety (Gujarat Junagadh Gram-6) variety

Problem: Farmer use low yielded oldest variety.

Causes:

- Lack of information about newly available variety as well as oldest variety disease susceptible.
- Lack of interest in adoption of new variety

Problem Cause Diagram

Treatments:

T1:	Farmer practices (Control): Sowing of Locally available variety (GJG-3) farmers
T2:	Use of Improved variety of Chick pea (GJG-6)
T3:	Use of Improved variety of chick pea Phule Vikram

Source of technology (T2): JAU, Junagadh, (T3): MPKV, Rahuri

Technical Indicator:

1. 100 grain weight, 2. Plant height (cm) 3. Yield (q/ha) 4. No of branches

Economic Indicator:

1. Cost of production, 2. Gross return (Rs/ha), 3. Net Return (Rs/ha), 4. B:C ratio

Cost:

T1:	seed of locally available variety, 5600 per hector **(Total cost about ₹5600/ha X 2 ha = ₹11200/-)**
T2:	Seed of Improved variety of Chick pea 7500 per hector **(Total cost about ₹ 7500/ha X 1 ha = ₹7500/-)**
T3:	Seed of phule vikram variety 7500 per hector **(Total cost about ₹7500/ha X 1 ha = ₹7500/-)**

No. of Farmers : 05

Experimental Size : 1 Acre

Duration of Experiments : 3 Year

2. Title: Assessment of new Green gram variety (Gujarat Moong - 6) variety

Problem: Farmers use oldest variety GM-2/4 some long time.

Causes:

- Lack of information about recommendation of new green gram varieties.
- Old variety having low yield potential and disease and pest susceptible

Problem Cause Diagram

Treatments:

T1:	Farmer practices (Control): Locally available green gram variety (GM 2/4)
T2:	Use of new improved variety of Green gram (GM-6)
T3:	Use of new improved variety of Gujarat Anand Moong 5 (GAM-5)

Source of technology (T2): SDAU, Dantiwada, **(T3):** AAU, Anand

Technical Indicator:

1. No of Pods, 2. Plant Height, 3. Yield (q/ha), 4. No of branches 5. Test weight

Economic Indicator:

1. Cost of production, 2. Gross return (Rs/ha), 3. Net Return (Rs/ha), 4. B:C ratio

Cost:

T1:	Green gram variety GM-2/4 seed rate 25 kg/ha; @ ₹ 100/-/Kg **(Total cost about ₹2500/-/ha X 2 ha = ₹ 2000/-)**
T2:	New Green gram variety (GM-6), seed rate 25 kg/ha; @ ₹ 140/-/kg **(Total cost about ₹3500/-/ha X 1 ha = ₹ 3500/-)**
T3:	New green gram variety (GAM-5), seed rate 25 kg/ha; @ ₹ 140/-/kg **(Total cost about ₹3500/-/ha X 1 ha = ₹ 3500/-)**

No. of Farmers : 05
Experimental Size : 1 Acre
Duration of Experiments : 3 Year

3. Title: Management of mango hopper

Problem: Heavy incidence of mango hopper

Causes:

- Improper use of pesticides
- Lack of application of bio pesticides

Problem Cause Diagram

Treatments:

T1:	Farmer's Practices: - Improper use of pesticides; not follow the recommendation
T2:	Two sprays of Thiamethoxam 25% WG (3.36 g/10 lit) or Imidacloprid 17.8 SL (2.80 ml/10 lit). First spray at flowering and second spray at 21 days after first spray
T3:	Two sprays of Azadirachtin 1500 ppm (50 ml+10 g. Washing powder / 10 lit. water) First spray at ETL (5 hopper/inflorance) and second at 10 days after first spray

Source of technology (T2) NAU, Navsari (T3): AAU, Anand

Technical Indicator: 1. Pest infestation (%) 2. Yield (q/ha)

Economic Indicator: 1. Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), 4. B:C Ratio

Cost:

T1:	Farmer's Practices: - Improper use of pesticides
T2:	Two **s**prays of Thiamethoxam 25% WG (3.36 g/10 lit) @ 210 gm/625 lit water per acre @₹400/- Or Imidacloprid 17.8 SL (2.80 ml/10 lit) @ 175 ml/625 lit water per acre @₹440/-. First spray at flowering and second spray at 21 days after first spray **(Total cost about ₹840/-/acre X 2.5 acre = ₹2100/-)**
T3:	Two sprays of Azadirachtin 1500 ppm (50 ml+10 g. Washing powder / 10 lit. Water) @ 6.24lit /1250 lit water per acre @₹3300/- First spray at ETL (5 hopper/inflorance) and second at 10 days after first spray. **(Total cost about ₹3300/-/acre X 2.5 acre = ₹8250/-)**

No. of Farmers **:** 05

Experimental Plot Size : 1 Acre

Duration **:** 3 year

4. Title: Management of white grub in groundnut

Problem: Infestation of white grub in groundnut

Causes:

- Lack of seed treatment
- Lack of pre application of pesticides

Problem Cause Diagram

Treatments:

T1:	Injudicious use of pesticides. Use of chlorpyriphos, quinalphos, clothianidine, imidacloprid+ Fipronil, Thiamethoxam after infestation of white grub as post application.
T2:	Recommended dose of Pesticide as Chlorpyriphos or Quinalphos @ 25 ml/kg seed. Drenching of Chlorpyriphos or Quinalphos @ 4 lit/ha as initiation of pest incidence
T3:	Application of ready mix combination of Imidacloprid 40% + Fipronil 40% WG@ 2.5 g/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% WG @ 250 g/ha as initiation of pest incidence

Source of technology: Junagadh Agricultural University

Technical Indicator:

1. Record no. of grub per 1 meter row length. 2. Yield (q/ha)

Economic Indicator:

1. Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), 4. B:C Ratio

Cost:

T1:	Injudicious use of pesticides.use of chlorpyriphos, quinalphos, clothianidine, imidacloprid+ Fipronil, Thiamethoxam after infestation of white grub as post application.
T2:	Chlorpyriphos or Quinalphos @ 25 ml/kg seed per acre 1.25 lit @ ₹500/- and Chlorpyriphos or Quinalphos @ 1.6 lit/acre @ ₹640/- **(Total cost about ₹1140/-/acre X 2.5 acre = ₹2850-)**
T3:	Imidacloprid 40% + Fipronil 40% WG @ 2.5 g/kg seed per acre 125 gm @ ₹2000/- and Imidacloprid 40% + Fipronil 40% WG @ 100 g/acre @ ₹1600/- **(Total cost about ₹3600/-/acre X 2.5 acre = ₹9000/-)**

No. of Farmers : 05

Experimental Plot Size : 1 Acre

Duration : 3 year

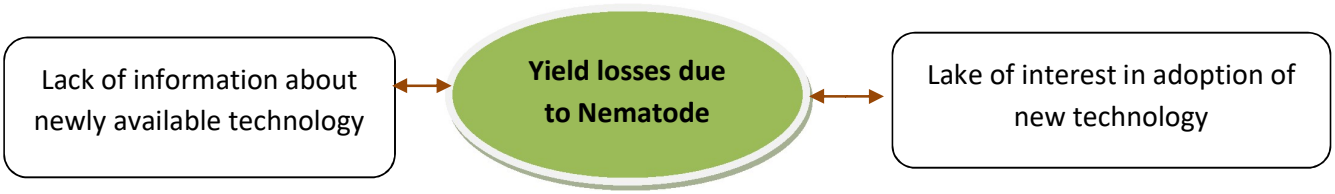
5. Refinements superior technology against nematode management in onion

Problem: Yield losses due to Nematode problem.

Causes:

- Lack of information about newly available technology.
- Lake of interest in adoption of new technology.

Problem Cause Diagram



Treatments:

T1:	Farmer practices (Control): No use of pseudomonas luorescens and Trichoderma and EPN
T2:	Use of organic formulation containing Pseudomonas luorescens & Trichoderma harzianum has to be sprayed on the plants at regular intervals of 30 days
T3:	Use of EPN 2.5 kg/ha

Source of technology (T2): IIHR, Bangalore, **(T3):** IARI, New Delhi

Technical Indicator: 1. No of Infested plant per sqm. 2. Bulb diameter 3. Yield (q/ha)

Economic Indicator: 1. Cost of production, 2. Gross return (Rs/ha),

3. Net Return (Rs/ha), 4. B:C ratio

Cost:

T1:	Farmer Practices: Only use of chemical (carbofuran 3G) **(Total cost about Rs.1000/ha X 2 ha = Rs.2000/-)**
T2:	Use of organic formulation containing Pseudomonas luorescens & Trichoderma harzianu to be sprayed on the plants at regular intervals of 30 days at a dosage of 5g/ lit or 5ml/ li **(Total cost about Rs. 1000/ha X 1 ha = Rs.1000/-)**
T3:	Use of EPN 2.5 kg/ha **(Total cost about Rs.3300/ha X 1 ha = Rs.3300/-)**

No. of Farmers : 05

Experimental plot Size : 1 Acre

Duration of Experiments : 3 Year

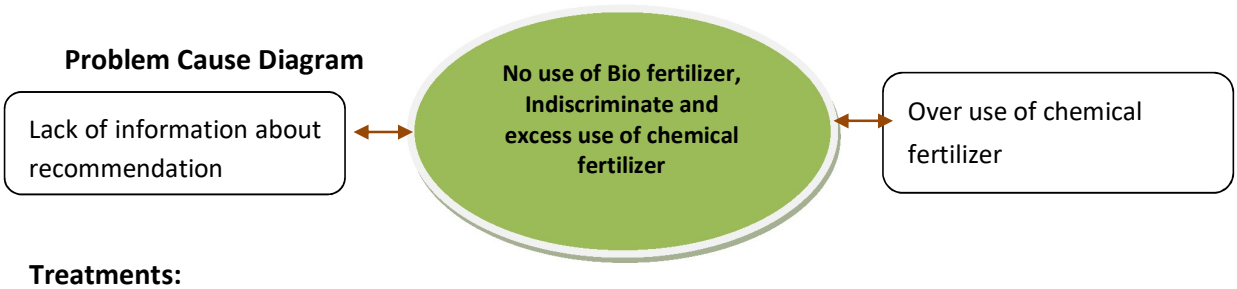
6. Title: Assessment of Bio fertilizer (Azospirilium and PSB) in onion for better production

Problem: No use of Bio fertilizer, Indiscriminate and excess use of chemical fertilizer

Causes:

- Lack of information about recommendation.
- Over use of chemical fertilizer

Problem Cause Diagram



Treatments:

T1:	Farmer practices (Control): chemical fertilizer application
T2:	Application of RDF (75:60:50:25 NPKS kg/ha on soil test bases
T3:	75 % NP with use of Bio fertilizer (Azospirilum and PSB 2.5 kg per ha. Each)

Source of technology (T2) & (T3): DOGR, Rajgurunagar (2016)

Technical Indicator: 1. Bulb diameter 2. Yield (q/ha)

Economic Indicator: 1. Cost of production, 2. Gross return (Rs/ha),

3. Net Return (Rs/ha), 4. B:C ratio

Cost:

T1: chemical fertilizer application **(Total cost about Rs 5000/-/ha X 2 ha = Rs. 10000/-)**

T2: Application of RDF (75:60:50:25 NPKS kg/ha on soil test bases

(Total cost about Rs.9000/-/ha X 1 ha = Rs. 9000/-)

T3: 75 % NP with use of Bio fertilizer

(Total cost about Rs.9800/-/ha X 1 ha = Rs. 9800/-)

No. of Farmers : 05
Experimental Plot Size : 1 Acre
Duration : 3 year

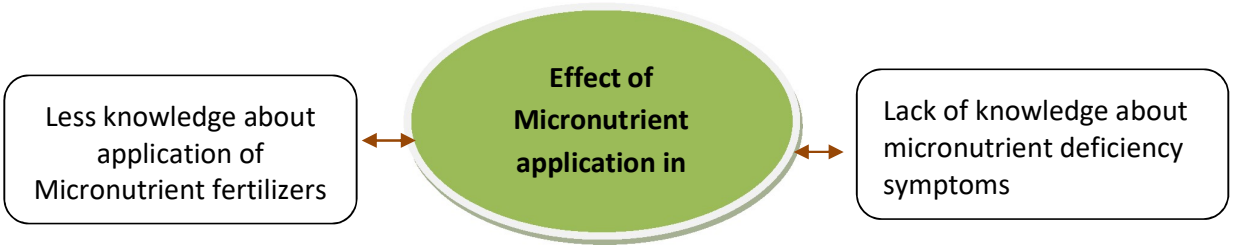
7. Title: Effect of Micronutrient application in chickpea

Problem: Deterioration in quality due to micronutrient deficiency in Chickpea

Causes:

- Lack of knowledge about micronutrient deficiency symptoms.
- Less knowledge about application of Micronutrient fertilizers.

Problem Cause Diagram



Treatments:

T1:	Farmer practices basal application of 150 kg DAP and foliar application of 50 kg Urea 25 DAS
T2:	Application of multi-micronutrient mixture Grade-V @ 40 kg/ha besides recommended dose of fertilizer (20:40:0 N:P2O5:K2O kg/ha)
T3:	Application of 1% foliar spray of Government notified multi-micronutrient mixture either Grade II (Fe: 6.0, Mn: 1.0, Zn: 4.0, Cu: 0.3 and B: 0.5 per cent) or Grade I (Fe: 2.0, Mn: 0.5, Zn: 4.0, Cu: 0.3 and B: 0.5 per cent) at 30, 45 and 60 days after sowing along with 20 kg N and 40 kg P2O5 /ha as basal

Source of technology (T2): JAU, Junagadh (2021), (T3): AAU, Anand (2021)

Technical Indicator: 1. 100 grain weight, 2. Yield (q/ha.)

Economic Indicator: 1. Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), 4. B:C Ratio

Cost:

T1:	50 kg Urea @ Rs. 350/- and 150 kg DAP @ Rs. 4350/-/ha **(Total cost about Rs. 4700-/ha X 2 ha = Rs.9400/-)**
T2:	40 kg multi-micronutrient mixture Grade-V @ Rs. 3200/- **(Total cost about Rs.3200/-/ha X 1 ha = Rs.3200/-)**
T3:	11.25 kg multi-micronutrient mixture either Grade II or I @ Rs. 4500/- **(Total cost about Rs. 4500/-/ha X1 ha = Rs. 4500/-)**

No. of Farmers : 05

Experimental Plot Size : 1 Acre

Duration : 3 year

8. **Title: Assessment of Liquid Bio-fertilizer consortia (NPK) for nutritional management in Soybean**

Problem: Indiscriminate and excess uses of chemical fertilizers.

Causes:

- Less production due to no use of Bio-fertilizers
- Lack of knowledge about benefits of bio-fertilizers

1. **Problem Cause Diagram**

Treatments:

T1:	Farmer practices basal application of 150 kg DAP and 50 kg Urea.
T2:	Application of 100 % RDF(N: P2O5- K2O; 30:60:00 kg ha-1)+ No use of bio-fertilizers
T3:	Application of 75% RDF(N: P2O5- K2O; 22.5:45:00 kg ha-1)+ Seed treatment with NPK consortia (10 ml/kg seed)

Source of technology: IISR (2015)

Technical Indicator: 1. No of Pods/plant, 2. Yield (q/ha.)

Economic Indicator: 1.Cost of Production (Rs/ha), 2. Gross return: (Rs/ha), 3. Net return: (Rs/ha), 4. B:C Ratio

Cost:

T1:	50 kg Urea @ Rs. 300/- and 150 kg DAP @ Rs. 4350/-/ha **(Total cost about Rs.4650/-/ha X 2 ha = Rs.9300/-)**
T2:	65 kg Urea @ Rs. 390/- + 375 kg SSP @ Rs. 3225/-/ha **(Total cost about Rs. 3615/-/ha X 1 ha = Rs.3615/-)**
T3:	49 kg Urea @ Rs. 294/- & 281 kg SSP @ Rs. 2417/-/ha + NPK consortia @ Rs. 120/- **(Total cost about Rs. 2831/-/ha X 1 ha = Rs.2831/-)**

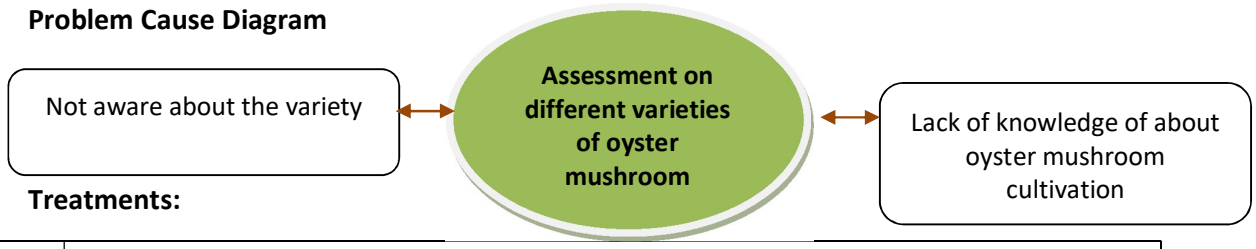
No. of Farmers : 05
Experimental Size : 1 Acre
Duration of Experiments : 3 years

9. **Title Assessment on different varieties of oyster mushroom cultivation**

Problem: Lack of knowledge about various type of oyster mushroom

Causes: Not aware about the variety

Problem Cause Diagram



Treatments:

T1:	Farmers' practice: Dhingari mushroom
T2:	Recommendation practice: Sajor Kaju (Grey)
T3:	Recommendation Practice: Sajor Kaju (Blue)

Source of technology: DMR, Solan

Observation: - 1. Production kg/bag 2. Duration/days 3. B:C ratio

Total Cost **:** 4500/-
No. of farm women **:** 05
Duration : 3 years

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10. **Assessment of dry heat treatment in improving the shelf life of pearl millet flour**

Problem: Bajra flour turns bitter & rancid during storage

Causes: Lack of knowledge about blanching & dry heat method

Problem Cause Diagram

Treatments:

T1:	Farmers' practice –Direct milling of Bajra flour
T2:	Dry heat treatment before milling(oven for 2 hours)
T3:	Blanching of seeds before milling

Source of technology: CCS, Haryana Agriculture University, Hisar, MPKV, Rahuri
Parameters to be studied: 1.Increase in shelf life (Days), 2.Overall Acceptability (%)
Total Cost **:** ₹1500
No. of farm women **:** 10
Duration : 3 year

3.3. Frontline Demonstrations

A. Details of FLDs to be organized (Oilseeeds, pulses, cereals, cotton, commercial crops, horticulture crops, vegetables, spices and condiments, fodder crops, etc)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
1	Groundnut	Girnar - 4	Varietal	Performance evaluation of Groundnut variety Girnar -4	-Groundnut Seed (Girnar-4) **(Quantity: 150 kg pod/ ha @ ₹ 120/- kg) Cost /ha: ₹ 18,000/-**	Kharif-2024	2	5	-No of Pods -Yield (qtl/ha) -B:C ratio **(Total Cost: ₹ 36000/-)**
2	Wheat	-	Natural farming	Effect of Jivamreet uses in wheat on yield and economics of crop.	Barrel & bucket **(₹ 1500/- per demo)**	Rabi 2024	2	5	Pod per plant Yield qt/ha B:C ratio **(Total cost: 7500)**
3	Wheat	GW - 513	Varietal	Performance evaluation of New wheat variety GW-513	Seeds of GW-513 **(Quantity: 120 kg with @ ₹ 60/- /kg Cost /ha: ₹ 7200/-**	Rabi-2024	2	5	-Yield qt/ha -B:C ratio **(Total Cost: ₹ 14,400/-)**
4	Soybean	GJS-4	Varietal	Performance of soybean variety GJS-4 in Kharif season	Soybean seeds **(Quantity: 75 kg/ha with @₹. 100/- per kg.) cost 7500/-)**	Kharif 2024	2	5	Pod per plant Yield qt/ha B:C ratio (Total cost: 15000)
5	Sorghum	GNJ 1	Varietal	Performance evaluation of new variety GNJ-1 of Sorghum	Sorghum seed **(Quantity: 30 Kg/ ha. with @₹.50/- per kg + bio fertilizer NPK 2.5 Ltr/ha. @ ₹ 180/- per ltr. Cost per ha. 1950/-)**	Rabi 2024	5	12	Yield (qt/ha) B:C Ratio **(Total Cost: 9750)**
6	Groundnut	-	INM	Effect of nano boron on yield and nutrients uptake by kharif groundnut	Foliar Application of three sprays of 0.2 % boric acid OR 0.2 % nano boron (20 ml/10 lit water) at 30, 45 and 60 DAS in addition to recommended dose of fertilizers (12.5-25- 50 N-P_2O_5-K_2O kg/ha)	Kharif-2024	5	12	-Yield Qtl/ha -B:C ratio -**(Total Cost: Rs. 13500/-)**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
					(Quantity: nano boron 2.25 kg /ha / = cost: Rs. 2700/-) **Cost /ha: Rs. 2700/-**				
7	Soybean	-	INM	Performance of bio-fertilizer (Mycorrhiza) in soybean crop	Application of 75% RDF(22.5:45:00 N-P_2O_5-K_2O kg/ha) on STV basis + Soil application of Mycorrhiza @ 25 kg/ha + seed treatment with Rhizobium (5-10 g/kg seed) **(Quantity: Mycchorhiza 25 kg /ha / = cost: Rs. 1500/- & Rhizobium 1200 g /ha = cost: Rs. 270/-)** **Cost /ha: Rs. 1770/-)**	Kharif-2024	5	12	-Yield Qtl/ha -B:C ratio -**(Total Cost: Rs. 8850/-)**
8	Cotton		INM	Efficacy of multi-micronutrient formulation in improving crop production in Bt Cotton	Foliar Application of micronutrients Grade-IV @ 1% at 45, 60, 75 and 90 DAS in addition to recommended dose of fertilizer (240:50:150 N: P2O5:K2O kg/ha) **(Quantity: Multi-micronutrients mixture Grade-IV 15 kg / ha = cost: Rs. 4800/-)** **Cost /ha: Rs. 4800/-**	Kharif-2024	5	12	-Yield Qtl/ha -B:C ratio -**(Total Cost: Rs. 24000/-)**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
9	Chickpea		Nutrient Use Efficiency	Effect of foliar spray of 2% KNO3 in chickpea crop	Foliar application of 2% KNO3 in Chickpea at Flowering and pod development stage **(Quantity: 15 kg/ha with @ Rs 200/- /kg & cost: Rs. 3000/-) Cost /ha: Rs. 3000/-**	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -**(Total Cost: Rs.15000 /-)**
10	Wheat		INM	Effect of potassium and sulphur in Wheat Crop	Application of 60 kg potash with 40 kg sulphur (in form of phospho gypsum)/ha in addition to RDFN:P:K; 120:60:60 kg/ha **(Quantity: MOP 100 kg/ha with @ Rs 37/- /kg & cost: Rs. 3700/- and Phosphogypsum 250 kg with @ Rs 2.5/- /kg & cost: Rs. 625/-)Cost /ha: Rs. 4325/-**	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -**(Total Cost: Rs. 21625/-)**
11	Groundnut	-	IDM	Integrated management practices to minimize infection of collar rot and stem rot diseases in groundnut	1. Mancozeb 75 % WP treat seed with 3 gm/kg seed **(Quantity: 500 gm / ha & cost: ₹500/-)** 2. Trichoderma harzianum 2.5 kg/ha and 250 kg castor cake/ha Furrow application at the time of sowing **(Quantity: Trichoderma : 2.5 kg / ha & cost: ₹ 400/- and Castor cake : 250 kg/ha & cost: ₹ 2500/-)** **Total Cost /ha: ₹ 3400/-**	Kharif - 2024	5	12	Yield Qtl/ha -B:C ratio -% Disease infestation **(Total Cost: ₹ 17000/-)**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
12	Mango	-	IPM	Integrated Management of Fruit fly infestation in mango	1. Methyl Eugenol Traps **(Quantity: 15 nos. / ha & cost: ₹2700/-)** 2. Deltamethrin 2.8 ec **(Quantity: 1.25 ltr / ha & cost: ₹2750/-)** 3. Azadirachtin 1500 ppm **(Quantity: 5 ltr / ha & cost: ₹2250/-)** **Total Cost /ha: ₹ 7700/-**	Rabi-2024	2	5	Yield Qtl/ha -B:C ratio -% Fruit fly infestation **(Total Cost: ₹15400/-)**
13	Gram	-	IDM	Application of Carbendazim as seed treatment and Trichoderma and castor cake use as soil application for Wilt management in gram	1. Carbendazim **(Quantity: 250 gm / ha & cost: ₹300/-)** 2. Trichoderma **(Quantity: 7.5 kg / ha & cost: ₹ 1125/-)** 3. Castor cake **(Quantity: 125 kg /ha & cost: ₹ 2000/-)** **Cost /ha: ₹ 3425/-**	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -% Disease infestation **(Total Cost: ₹ 17125/-)**
14	Gram	-	IPM	Application of Bio pesticides and insecticides against pod borer management in Gram	1. HaNPV **(Quantity: 750 ml / ha & cost: ₹600/-)** 2. Chlorantraniliprole 18.5 SC **(Quantity: 100 ml / ha & cost: ₹ 2000/-)** **Cost /ha: ₹ 2600/-**	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -% pest infestation **(Total Cost: ₹13000/-)**
15	Groundnut	-	Natural farming	Spraying of Dasparani ark for the management of pest in groundnut	Drum and bucket **@₹ 1200 per demo**	Kharif-2024	2	5	-Yield (kg/ha) -B:C Ratio - Pest infestation (%) **(Total Cost ₹ 6000/-)**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
16	Turmeric	-	IDM	Effect of Azoxystrobin 18.2% + Difenoconazole 11.4 % SC for the control of leaf blotch and leaf spot disease in turmeric (Two sprays of Azoxystrobin 18.2% + Difenoconazole 11.4 % SC @ 500 ml/ha with sticker @ 500 ml/ha at disease initiation stage and second at 15 days after first dose)	Azoxystrobin 18.2% + Difenoconazole 11.4 % SC @ 500 ml/ha with sticker @ 500 ml/ha **(Quantity: Azoxystrobin 18.2% + Difenoconazole 11.4 % SC 1.0 lit/ha Cost: Rs. 2500/-) for about 2 dose & sticker @ 1 lit/ha Cost: Rs. 2000/-)for about 2 dose. Cost /ha: Rs.4500/-**	Kharif - 2024	2	5	-Yield Qtl/ha -B:C ratio -% diseaset infestation **(Total Cost: Rs. 9000/-)**
17	Coconut		Organic Farming	Effect of organic ingredient to enhance coconut yield in the saline area	15 kg FYM, 8 kg vermicompost, 2.25 kg castor cake and 2.25 kg Neem cake @ per plant(20 plants per farmers total 100 plants)	Kharif - 2024	2	5	-Yield Nuts/ha -B:C ratio **(Total Cost: Rs. 11000/- per ha)**
18	Chilli	-	Water management	Use of plastic mulch in Chilli to conserve irrigation water	5 role of plastic mulch @ Rs. 3200 **(Total cost Rs. 16000/-)**	Rabi - 2024	2	5	-water saving (cu.m/ha.) -Yield Qtl. /ha. -B:C ratio **(Total cost Rs. 16000/-)**
19	Mango	-	INM	Effect of Novel 2% for increasing quality and production of Mango	Novel 2 ltr./ 0.4 ha @ ₹ 150 /Ltr. **Total cost ₹750/ha**	Rabi-2024	2	5	-Yield Qtl/ha -B:C ratio (**Total cost ₹ 1500/-)**
20	Coconut	-	Natural farming	Use of Jivamreet with irrigation water in coconut for yield enhancement	Drum and bucket @1600 per demo and methodology display board	Summer-2024	2	5	-Yield (Nuts/ha) -B:C Ratio **(Cost ₹ 8000/-)**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
21	Pro super bag	-	Grain storage	Use of pro super bag for storage of different pulses dales	Pro super bag **(Quantity & cost: @ Rs 150/- Cost /: ₹ 150/-**	Summer-2024	-	10	- Storage capacity (days) (**Total cost :1500/-)**
22	Natural Nutritional gardening		Health and nutritional	Demonstration of Natural nutritional garden for improvement health status of farmwomen	Vegetable seed, seedling and fruit plant kit **Cost/inputs/kit: ₹ 200/-**	Kharif-2024	-	50	-Production per unit(Kg) - Before & after consumption - Income generation (₹) **Total cost ₹ 10,000/-**
23	Bajara	Bajara Biscuit	Value addition	Preparation of bajara biscuit as a high nutrient diet for farmwomen	Bajara flour + wheat flour + milk + backing powder + Vanila essence + sugar + butter (1 Kg. of biscuit making) (Quantity 1 Kg. @ ₹ 300/-)	Summer - 2024	-	10	- Durability - Taste **(Total cost ₹ 3000)**
24	Spiral seed separator	Grader tool	Primary value addition of grain	Use of spiral seed separator for value addition in soybean seed	Spiral seed separator **(Quantity & Cost:@₹8000/-)**	Kharif-2024	-	15	- Quantity clean in 8 h₹ - Cost of Cleaning (₹/ Qtl.) - Quality of separated grain/seed **Total cost ₹ 8000/-**
25	Drum Stick		Health & Nutrition	Drumstick leaves powder as nutritional supplement in farm women	Drum stick leaf powder (5 gm/ person /day) as supplement for three months **(Quantity 2.25 kg & Cost:@₹5500/-)**	Rabi-2024	-	10	-Hb percentage in blood (gm), -body weight (kg) **Total cost ₹ 5500/-**
26	Waste decomposer	-	Farm waste management	Effect of waste decomposer on quality of Manure	Waste decomposer culture **(Quantity & cost:** 10 Culture bottle @ 100 ₹/ culture bottle/ farmer **cost: ₹100/ farmer**	Rabi-2024	-	10	-Yield Qtl/ha - time required -B:C ratio **(Total Cost: ₹1000)**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
27	Vermi compost	-	Farm waste management	Performance of vermi compost in Soybean	Earthworms + vermibeds **(Quantity & cost:** 5 vermi beds (1500 Rs/ bed) + 5 kg with @ ₹ 400/ kg **Cost: 1900 ₹ Per farmer**	Kharif - 2024	-	5	**Technical indicator:** -Yield Qtl/ha - no of pods/plant - time required **Economic indicator:** -B:C ratio **(Total cost:9500)**
28	Brinjal	-	INM	Performance of Navroji Novel bio fertilizer for increasing quality and production of Brinjal	Navroji Bio fertilizer 5 Ltr/ ha.@ Rs. 150/- Total cost Rs. 1500/-	Rabi - 2024	2	5	-Yield Qtl/ha - Av.No of fruits per plant - Av. Size & weight of fruit -B:C ratio **(Total Cost: Rs. 1500/-)**
29	Solar dryer	-	Value addition	Use of solar dryer for drying and value addition of fish	Fish solar dryer **Provide by CIFT**	Rabi 2024		30	-Quality of dry fish -Time saving in solar dryer -period of good quality
30	Silver Pompano	-	Fish cultivation	Use of 15 ppt salinity for silver pompano culture	Fish seed 5000 nos. Cost/seed Rs.6 **Total cost of Inputs Rs.30000 Provide by CMFRI**	Summer & Kharif-2024		1	-Growth rate in 15 ppt -Culture Period **(Total cost of Inputs Rs.30,000)**
31	Cattle	-	Increasing milk productivity as well as fat percent in gir cattle	Effect of By-pass fat for Increasing milk productivity as well as fat in gir cattle	By- Pass fat @ 10 g/Ltr. of milk & Mineral mixture @ 40 gm./animal/day **(Cost ₹ 2700)**	Kharif– 2024	-	5	-Fat percent -Milk yield **(Cost ₹ 2700)**

Sponsored Demonstrations (CFLDs on O & P/Others)

S. No.	Crop	Variety	Season and Year	Area (ha)	No. of farmers
1	Groundnut	GJG 22/32	Kharif - 2024	40	100
2	Soybean	GJS-3	Kharif - 2024	20	50
3	Chick pea	GG-5	Rabi - 2024	40	100
			Total	**100**	**250**

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	37	-	
2	Farmers Training	10	-	
3	Media coverage	12	-	
4	Training for extension functionaries	04	-	

C. Details of FLD on Enterprises

a. Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Spiral seed separator	-	Rabi-2024	15		Spiral seed separator (Quantity & Cost:@ ₹8000/-)	- Quantity clean in 8 h₹ - Cost of Cleaning (₹/ Qtl.) - Quality of separated grain/seed Total cost ₹ 8000/-

b. Livestock and Fisheries Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Solar Dryer	Fish solar dryer	30	-	Fish solar dryer **provided by CIFT**	-Quality of dry fish -Time saving in solar dryer -period of good quality
Silver Pompano	Fish Cultivation	01		Fish seed 5000 nos. Cost/seed Rs.6 Total cost of Inputs Rs.30,000/- **Provide by CMFRI**	-Growth rate in 15 ppt -Culture Period
Cattle	Gir Cattle	05	-	By- Pass fat @ 10 g/Ltr. of milk & Mineral mixture @ 40 gm./animal/day (Cost ₹ 2700)	-Fat percent -Milk yield **(Cost ₹ 2700)**

c. Other Enterprises (Mushroom, Apiculture, Sericulture, Vermi compost, Value Addition, Women empowerment, etc)

Enterprise	Technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators
Vermi compost	Performance of vermi compost in groundnut crop	05	05	Earthworms + vermibeds (Quantity & cost: 5 vermi beds (1500 Rs/ bed) + 5 kg with @ ₹ 400/ kg **Cost: 1900 ₹ Per farmer**	**Technical indicator:** -Yield Qtl/ha - no of pods/plant - time required **Economic indicator:** -B:C ratio **(Total cost:9500)**
Natural Kitchen garden	Demonstration of Natural nutritional garden for improvement health status of farmwomen	50	50	Vegetable seed, seedling and fruit plant kit **Cost/inputs/kit: ₹ 200/-**	-Production per unit(Kg) - Before & after consumption - Income generation (₹) **(Total cost ₹ 10,000/-)**
Drum Stick	Drumstick leaves powder as nutritional supplement in farm women	10	10	Drum stick leaf powder (5 gm/ person /day) as supplement for three months **(Quantity 2.25 kg & Cost:@Rs.5500/-)**	Hb percentage in blood (gm), -body weight (kg) **(Total cost Rs. 5500/-)**
Waste decomposer	Effect of waste decomposer on quality of Manure	10	10	Waste decomposer culture (Quantity & cost: 10 Culture bottle @ 100 ₹/ culture bottle/ farmer cost: ₹100/ farmer	-Yield Qtl/ha - time required -B:C ratio **(Total Cost: ₹1000)**

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

A. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies	1	5	5	10	5	5	10	20
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	2	10	10	20	10	10	20	40
Fodder production								
Production of organic inputs – NF(SP -1)	2	10	10	20	10	10	20	40
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising	1	5	5	10	5	5	10	20
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	5	5	10	5	5	10	20
Cultivation of Fruit (SP-1)	3	15	15	30	15	15	30	60
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards	1	5	5	10	5	5	10	20
Plant propagation techniques								
c) Ornamental Plants								

Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	1	5	5	10	5	5	10	20
Soil and Water Conservation								
Integrated Nutrient Management	1	5	5	10	5	5	10	20
Production and use of organic inputs (SP-1)	2	10	10	20	10	10	20	40
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	5	5	10	5	5	10	20
IV Livestock Production and Management								
Dairy Management	1	5	5	10	5	5	10	20
Poultry Management (SP-2)	2	10	10	20	10	10	20	40
Piggery Management								
Rabbit Management/goat								
Disease Management	1	5	5	10	5	5	10	20
Feed management	1	5	5	10	5	5	10	20
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	2	10	10	20	10	10	20	40

Design and development of low/minimum cost diet	1	5	5	10	5	5	10	20
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	1	5	5	10	5	5	10	20
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	1	5	5	10	5	5	10	20
Rural Crafts								
Women and child care (SP-1)	1	5	5	10	5	5	10	20
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	2	10	10	20	10	10	20	40
Integrated Disease Management (SP-1)	2	10	10	20	10	10	20	40
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								

Pen culture of fish and prawn								
Shrimp farming	2	10	10	20	10	10	20	40
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	1	5	5	10	5	5	10	20
Group dynamics								
Formation and Management of SHGs (SP-1)	1	5	5	10	5	5	10	20
Mobilization of social capital								
Entrepreneurial development of farmers/youths	1	5	5	10	5	5	10	20
Market Led Extension	1	5	5	10	5	5	10	20
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
TOTAL	**37**	**175**	**185**	**370**	**185**	**185**	**370**	**740**
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping	1	5	5	10	5	5	10	20
Integrated farming								
Seed production								
Production of organic inputs								

Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming	1	5	5	10	5	5	10	20
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post-Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Capacity building	1	5	5	10	5	5	10	20
TOTAL	**3**	**15**	**15**	**30**	**15**	**15**	**30**	**60**
(C) Extension Personnel								
Integrated Crop Management								
Integrated Pest Management	1	5	5	10	5	5	10	20
Integrated Nutrient management	1	5	5	10	5	5	10	20

Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization	1	5	5	10	5	5	10	20
Market Led Extension								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Natural resource management)	1	5	5	10	5	5	10	20
TOTAL	**4**	**20**	**20**	**40**	**20**	**20**	**40**	**80**
G. Total	**44**	**210**	**220**	**440**	**220**	**220**	**440**	**880**

B. OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming	1	5	5	10	5	5	10	20
Water management	1	5	5	10	5	5	10	20
Seed production	1	5	5	10	5	5	10	20
Nursery management								
Integrated Crop Management	2	10	10	20	10	10	20	40
Fodder production								
Production of organic inputs	4	20	20	40	20	20	40	80

II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	1	5	5	10	5	5	10	20
Off-season vegetables	1	5	5	10	5	5	10	20
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning	1	5	5	10	5	5	10	20
Layout and Management of Orchards	1	5	5	10	5	5	10	20
Cultivation of Fruit	2	10	10	20	10	10	20	40
Management of young plants/orchards	1	5	5	10	5	5	10	20
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards	1	5	5	10	5	5	10	20
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition	1	5	5	10	5	5	10	20
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post-harvest technology and value addition								
III Soil Health and Fertility Management								

Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	2	10	10	20	10	10	20	40
Production and use of organic inputs	1	5	5	10	5	5	10	20
Management of Problematic soils								
Micro nutrient deficiency in crops	1	5	5	10	5	5	10	20
Nutrient Use Efficiency	2	10	10	20	10	10	20	40
Soil and Water Testing	3	15	15	30	15	15	30	60
IV Livestock Production and Management								
Dairy Management	1	5	5	10	5	5	10	20
Poultry Management	1	5	5	10	5	5	10	20
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management	1	5	5	10	5	5	10	20
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	5	5	10	5	5	10	20
Design and development of low/minimum cost diet	1	5	5	10	5	5	10	20
Designing and development for high nutrient efficiency diet	1	5	5	10	5	5	10	20
Minimization of nutrient loss in processing	1	5	5	10	5	5	10	20
Gender mainstreaming through SHGs								
Storage loss minimization techniques	2	10	10	20	10	10	20	40
Value addition	1	5	5	10	5	5	10	20
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	1	5	5	10	5	5	10	20
Rural Crafts								
Women and child care	1	5	5	10	5	5	10	20
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								

VII Plant Protection								
Integrated Pest Management	3	15	15	30	15	15	30	60
Integrated Disease Management	4	20	20	40	20	20	40	80
Bio-control of pests and diseases	2	10	10	20	10	10	20	40
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming	1	5	5	10	5	5	10	20
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming	1	5	5	10	5	5	10	20
Edible oyster farming								
Pearl culture								
Fish processing and value addition	2	10	10	20	10	10	20	40
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	1	5	5	10	5	5	10	20
Group dynamics								
Formation and Management of SHGs	1	5	5	10	5	5	10	20
Mobilization of social capital	1	5	5	10	5	5	10	20
Entrepreneurial development of farmers/youths	4	20	20	40	20	20	40	80

Market Led Extension	2	10	10	20	10	10	20	40
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
TOTAL	**61**	**300**	**305**	**610**	**305**	**305**	**610**	**1220**
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								

Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post-Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Capacity building								
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
(C) Extension Personnel								
Integrated Crop Management								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Market Led Extension								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)								
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
G. Total	**61**	**300**	**305**	**610**	**305**	**305**	**610**	**1220**

C. Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	0	0	0	0	0	0	0	0
Resource Conservation Technologies	1	5	5	10	5	5	10	20
Cropping Systems	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0
Integrated Farming	1	5	5	10	5	5	10	20
Water management	1	5	5	10	5	5	10	20
Seed production	1	5	5	10	5	5	10	20
Nursery management	0	0	0	0	0	0	0	0
Integrated Crop Management	4	20	20	40	20	20	40	80
Fodder production	0	0	0	0	0	0	0	0
Production of organic inputs	6	30	30	60	30	30	60	120
II Horticulture	0	0	0	0	0	0	0	0
a) Vegetable Crops	0	0	0	0	0	0	0	0
Production of low volume and high value crops	1	5	5	10	5	5	10	20
Off-season vegetables	1	5	5	10	5	5	10	20
Nursery raising	1	5	5	10	5	5	10	20
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0	0	0
Training and Pruning	1	5	5	10	5	5	10	20
Layout and Management of Orchards	2	10	10	20	10	10	20	40
Cultivation of Fruit	5	25	25	50	25	25	50	100
Management of young plants/orchards	1	5	5	10	5	5	10	20
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	2	10	10	20	10	10	20	40
Plant propagation techniques	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0	0	0
Nursery Management	0	0	0	0	0	0	0	0

Management of potted plants	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	1	5	5	10	5	5	10	20
e) Tuber crops	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management	0	0	0	0	0	0	0	0
Soil fertility management	1	5	5	10	5	5	10	20
Soil and Water Conservation	0	0	0	0	0	0	0	0
Integrated Nutrient Management	3	15	15	30	15	15	30	60
Production and use of organic inputs	3	15	15	30	15	15	30	60
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	5	5	10	5	5	10	20
Nutrient Use Efficiency	2	10	10	20	10	10	20	40
Soil and Water Testing	4	20	20	40	20	20	40	80
IV Livestock Production and Management	0	0	0	0	0	0	0	0
Dairy Management	2	10	10	20	10	10	20	40
Poultry Management	3	15	15	30	15	15	30	60
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management/goat	0	0	0	0	0	0	0	0
Disease Management	1	5	5	10	5	5	10	20
Feed management	2	10	10	20	10	10	20	40
Production of quality animal products	0	0	0	0	0	0	0	0

V Home Science/Women empowerment	0	0	0	0	0	0	0	0
Household food security by kitchen gardening and nutrition gardening	3	15	15	30	15	15	30	60
Design and development of low/minimum cost diet	2	#VALUE!	10	20	10	10	20	40
Designing and development for high nutrient efficiency diet	1	5	5	10	5	5	10	20
Minimization of nutrient loss in processing	1	5	5	10	5	5	10	20
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	2	10	10	20	10	10	20	40
Value addition	2	10	10	20	10	10	20	40
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	2	10	10	20	10	10	20	40
Rural Crafts	0	0	0	0	0	0	0	0
Women and child care	2	#VALUE!	10	20	10	10	20	40
VI Agril. Engineering	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
VII Plant Protection	0	0	0	0	0	0	0	0
Integrated Pest Management	5	25	25	50	25	25	50	100
Integrated Disease Management	6	30	30	60	30	30	60	120
Bio-control of pests and diseases	2	10	10	20	10	10	20	40
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0
VIII Fisheries	0	0	0	0	0	0	0	0
Integrated fish farming **(**	1	5	5	10	5	5	10	20
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0

Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	3	15	15	30	15	15	30	60
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Fish processing and value addition	2	10	10	20	10	10	20	40
IX Production of Inputs at site	0	0	0	0	0	0	0	0
Seed Production	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
Leadership development	2	10	10	20	10	10	20	40
Group dynamics	0	0	0	0	0	0	0	0
Formation and Management of SHGs	2	10	10	20	10	10	20	40
Mobilization of social capital	1	#VALUE!	5	10	5	5	10	20
Entrepreneurial development of farmers/youths	5	25	25	50	25	25	50	100
Market Led Extension	3	15	15	30	15	15	30	60
WTO and IPR issues	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0
TOTAL	**98**	**475**	**490**	**980**	**490**	**490**	**980**	**1960**
(B) RURAL YOUTH	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0

Bee-keeping	1	5	5	10	5	5	10	20
Integrated farming	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
Integrated Farming (Medicinal)	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0
Shrimp farming	1	5	5	10	5	5	10	20
Pearl culture	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
Capacity building	1	5	5	10	5	5	10	20

TOTAL	**3**	**15**	**15**	**30**	**15**	**15**	**30**	**60**
(C) Extension Personnel	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0
Integrated Pest Management	1	5	5	10	5	5	10	20
Integrated Nutrient management	1	5	5	10	5	5	10	20
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	1	5	5	10	5	5	10	20
Market Led Extension	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	1	5	5	10	5	5	10	20
TOTAL	**4**	**20**	**20**	**40**	**20**	**20**	**40**	**80**
G. Total	**105**	**510**	**525**	**1050**	**525**	**525**	**1050**	**2100**

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

1.5. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	36	450	250	700	5	2	7	455	252	707
Kisan Mela	1	1200	800	2000	6	2	8	1206	802	2008
Kisan Goshthi	12	290	70	360	5	2	7	295	72	367
Exhibition	1	400	300	700	6	2	8	406	302	708
Film Show	7	110	30	140	5	2	7	115	32	147

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers Seminars	4	110	50	160	5	2	7	115	52	167
Workshop	1	100	20	120	6	2	8	106	22	128
Group meetings	10	120	30	150	5	2	7	125	32	157
Lectures delivered as resource persons	50	800	200	1000	5	2	7	805	202	1007
Newspaper coverage	40	0	0	0	6	2	8	6	2	8
Radio talks	15	0	0	0	6	2	8	6	2	8
TV talks	15	0	0	0	6	2	8	6	2	8
Popular articles	24	0	0	0	6	2	8	6	2	8
Extension Literature	08	0	0	0	6	2	8	6	2	8
Advisory Services	350	300	50	350	6	2	8	306	52	358
Scientific visit to farmers field	200	140	60	200	5	2	7	145	62	207
Farmers visit to KVK	800	600	200	800	6	2	8	606	202	808
Diagnostic visits	12	50	10	60	6	2	8	56	12	68
Exposure visits	2	60	40	100	6	2	8	66	42	108
Ex-trainees Sammelan	1	30	10	40	5	2	7	35	12	47
Soil health Camp	1	40	30	70	6	2	8	46	32	78
Agri mobile clinic	1	30	20	50	6	2	8	36	22	58
Soil test campaigns	1	100	50	150	2	2	4	102	52	154
Farm Science Club Conveners meet	2	30	10	40	6	2	8	36	12	48
Self Help Group Conveners meetings	20	0	300	300	5	2	7	5	302	307
Mahila Mandals Conveners meetings	10	0	100	100	6	2	8	6	102	108
Celebration of special days (specify)	4	280	120	400	6	2	8	286	122	408
Any Other (Specify)										
Total	**1628**	**5240**	**2750**	**7990**	**149**	**54**	**203**	**5389**	**2804**	**8193**

3.6. Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	GW- 451 & GW 499	30
OILSEEDS	Groundnut	GG-22, GJG- 32 & Girnar-4	20
	Soybean	GJS-3 & GJS-4	10
PULSES	Check pea	GJS-6	5
	Green gram	GAM-5, GM-6 & GNM-7	10
VEGETABLES			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
VEGETABLES	Brinjal	GJB-4 and 5	40,000
	Tomato	GT-3	
	Chilli	Local (private)	
FRUITS	Coconut	D x T F2	1000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS			
		Total	**41,000**

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg/lit)
BIO PESTICIDES				
1	Trichoderma	Harzianium	Kg	5000*
	Pseudomonas		Kg	1000*
	Beaveria	Bassiana	Kg	1000*
	Azadirachtin 1500 ppm		Ltr.	1000*
	SNPV		Ltr.	100*
	HNPV		Ltr.	100*

* The above bio products provided to farmers through our Krishi Agri mall (FPO)

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				
GOAT				
SHEEP				
POULTRY	Chicken & Fish	Kadaknath & Tilapia	80	IFS Model
Pig farming				
FISHERIES				

VALUE ADDED PRODUCTS

Crop / Commodity	Name of the product	Quantity to be prepared (kg or litre)	Sale value (Rs)
Fruit crops			
Vegetables			
Cereals and Millets			
Oilseeds and pulses			
Spices and condiments			
Any other (Pl specify)			
	Total		

3.7. Action plan for management of KVK instructional farm

Total land with KVK : 20.28 ha Cultivable land : 10.43 ha (Irrigated : 10.43 ha, Rainfed : - ha)

Micro-irrigation facility available at KVK: Yes.

Sr. No.	Name of crop	Area (ha)	Variety	Date of sowing / Planting	Date of harvest	Expected yield (q)
1	Sugarcane	1.00	Co-2005	02-01-2024	15-12-2024	50.00 Ton
2	Green gram	1.00	GM-6	06-03-2024	18-05-2024	12.00
3	Green gram	1.00	GNM-7	18-03-2024	30-05-2024	12.00
4	Green gram	0.2	GAM-5	18-03-2024	30-05-2024	2.00
5	Groundnut	1.00	GJG-32	25-05-2024	12-10-2024	15.00
6	Groundnut	1.00	GJG-22	25-05-2024	12-10-2024	15.00
7	Groundnut	0.5	Girnar - 4	10-06-2024	25-10-2024	8.00
8	Soybean	1.00	GJS-3	25-06-2024	30-10-2024	13.00
9	Soybean	0.5	GJS-4	25-06-2024	30-10-2024	8.00
10	Wheat	2.00	GW-499	15-11-2024	01-03-2025	30.00
11	Wheat	0.5	GW-451	15-11-2024	01-03-2025	15.00
12	Chickpea	1.00	GJG-6	10-11-2024	01-03-2025	8.00

4. Literature to be Developed/Published

A. Literature developed/published

S.No.	Topic	Number
1	Research paper (each scientist)	01
2	Technical reports	45
3	News letters	02
4	Training manual all discipline	02
5	Popular article	24
6	Extension literature	08
	Total	**82**

B. Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings	Title of the programme	Number
1	Short video clips	Agriculture and allied sectors advisory	25

C. Details of social media platforms to be started / continued

S. No.	Type of social media platform	Title / Purpose	Number
1	YouTube Channel	Agriculture and allied sectors advisory	4030 Subscriber
2	Facebook page	Agriculture and allied sectors advisory as well as updates of KVK activities	2040 Subscriber
3	Mobile Apps	Agriculture related information and solve the query of the farmers	1530 Download
4	WhatsApp groups	Agriculture and allied sectors advisory (62 Groups)	10612 Farmers
5	Twitter Account	Agriculture and allied sectors advisory as well as updates of KVK activities	110 Followers
6	Any other (Pl. Specify)		

D. Success stories/Case studies identified for development as a case (Based on previous years success)

S. No.	Title of success story / case study identified	Proposed month for case/story to be prepared/ developed
1	Success story on IPM and IDM	June- 2024
2	Success story on crop production	Oct.- 2024
3	Success story on INM	Nov.- 2024
4	Success story on Horticultural crops	Sept..-2024

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

A. Practicing Farmers

a)) Pre and post evaluation,

b) General discussion about agricultural problems of the village,

c) Power point presentation,

d) Farm/field visit for practical experiences,

e) Method demonstration if any

B. Rural Youth

a) Pre and post evaluation,

b) General discussion about particular vocational training issues in the area,

c) Power point presentation,

d) Farm/field visit with market strategic planning,

e) Method demonstration if any

C. In-service personnel

a) Pre and post evaluation

b) General discussion about district agriculture issues,

c) Power point presentation,

d) Farm/field visit for practical experiences,

e) Method demonstration if any

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) PRA
ii) Problem identified from Matrix
iii) Field level observations
iv) Farmer group discussions
v) Others if any

For FLD:

i) New variety/technology
ii) Poor yield at farmer's level
iii) Existing cropping system
iv) Others if any

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) -
ii. No. of farm families selected per village:
iii. No. of survey/PRA conducted:
iv. No. of technologies taken to the adopted villages
v. Name of the technologies found suitable by the farmers of the adopted villages:
vi. Impact (production, income, employment, area/technological– horizontal/vertical)
vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES

6.1. Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1	Junagadh Agricultural University – Junagadh	For New Technologies promotion, Scientist training, Seeds production, trichoderma & Farmers Recommendation
2	Directorate Of Groundnut Research, Junagadh	Seed Production ,Participation in Training Programme, G'nut demonstration- 91 farmers
3	ATMA – Gir Somnath & Junagadh	Krishi Mela, Farmers training, funding for CRS
4	FTC - Junagadh	Krishi Mela, Farmers training
5	Dept. of Agril. – Gir Somnath	Farmers Training Programmes
6	Dept. of Horti. – Gir Somnath	Farmers Training Programmes
7	Dept. of Animal Hus. – Gir Somnath	Farmers / Farmwomen Training Programmes
8	Dept. of Fisheries – Gir Somnath	Fisherman Training Programmes
9	NHM – Gandhinagar	Fund support of Leaf tissue Lab, Model nursery unit
10	AIR - Rajkot	Knowledge sharing about radio programmes
11	CIFT – Veraval	Knowledge sharing on cultivation Of Shrimp, Jinga & Fish And About Subsidies Etc.
12	CMFRI – Veraval	
13	MPEDA – Veraval	
14	Doordashan, TV18 Network, V TV, ABP Ashmita and Other Print Media Agencies	Electronic as well as Print Media Coverage of KVK Programmes
15	NABARD - Gir Somnath	Vocational Training for farm women
16	DWDU, Junagadh	Sponsored Training Programme
17	NDDB – Anand	Participation In Training Programme
18	Taluka Panchayat – Kodinar	Extension functionaries training
19	SRTT/ CSPC	Sponsored Training Programme
20	Janseva Trust – Veraval	Farmers/ Farmwomen Training Programmes
21	GHCL Foundatin - Sutrapada	Farmers/ Farmwomen Training Programmes
22	Kodinar Taluka Co opp. Union Bank. - Kodinar	Farmers Training Programme
23	Sabarmati Ashram Gaushala - Kodinar	Farmers/ Farmwomen Training Programmes

6.2. Details of linkage with ATMA

S. No.	Programme	Nature of linkage
1	Training	Funding support by ATMA
2	Field visit	In convergence mode
3	Krishi Mela	Funding support

1.3. Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	-	-
2		

6.4. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1	Training to be organized for value addition in fish	Sponsored programmes

6.5. Additional Activities planned including sponsored projects (NARI/DAESI/DAMU/DFI/PKVY/ Skill Trainings/TSP/KKA/Seed Hub on Pulses, etc.) schemes during 2022, if involved.

Sr. No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved

6.5.1. Details of activities planned in Doubling Farmers' Income (DFI) villages

Name of DFI village selected	Total No. of families in the village	Interventions planned during 20223	No. of families to be covered under the intervention	Present annual income of the family (Rs/annum)	Expected annual income of the family after intervention (Rs/annum)
Jaragali	637	Training/ FLD/ OFT/ field visit	167	395000	412650
Gangetha	233	Training/ FLD/ OFT/ field visit		200000	218900

6.5.2. Details of activities planned under NARI (Including FSN project)

S. No.	Name of the village	Activities planned	No. of families to be covered
	-	-	-
	-	-	-

6.5.3. Details of activities planned under Paramaparagat Krishi Vikas Yojana (PKVY)

S. No.	Name of the village	Activities planned	No. of families to be covered

6.5.4. Details of skill trainings planned (sponsored by ASCI)

S. No.	Name of Job Role	Duration (No. of hours)	No. of participants
1	Brackish water aquaculture farmer	210	20

6.5.5. Details of activities planned under TSP

S. No.	Name of the village	Activities planned	No. of families to be covered
-	-	-	-
-	-	-	-

6.5.6. Details of activities planned under Krishi Kalyan Abhiyan (KKA)

S. No.	Name of the village	Activities planned	No. of families to be covered
-	-	-	-
-	-	-	-

6.5.7. Details of seed production planned under Seed Hub on Pulses

S. No.	Name of the crop	Variety	Stage (Foundation / Certified)	Quantity of seed to be produced (q)
-	-	-	-	-
			Total	

6.6. Activities planned in respect of FPOs / FPCs

1. No. of FPOs / FPCs to be formed:
2. No. of existing FPOs / FPCs to be facilitated: 02
3. Type of support to be provided to existing FPOs / FPCs:

S. No	Name of the FPO / FPC	No. of members	Major activities of FPO / FPC	Type of support to be provided by KVK
1	Somnath Farmers Producer Company	1811	Marketing and selling of Agri inputs	Technical as well as infrastructural support
2	Dhanvantari Farmers Producer Company	532	Marketing and selling of Agri inputs	Technical support

6.7. Activities planned in respect of developing Integrated Farming System (IFS) Models on farmers' fields during 2024

Sr. No	Name of the village	No. of IFS models to be identified / developed	Major components of IFS model

1.0 Convergence with other agencies and line departments in the district:

KVK-Junagadh will work for technological backstopping in convergence mode with state department of agriculture, ATMA, Horticulture and NGOs within the district for training and other extension activities including field days, Krishi Mahotsav, Pre Kharif/Rabi Sammelan and for sub tribal plan implementation with directorate of Groundnut research Junagadh etc.

S. No.	Name of the department / Agency	Type of convergence	Area (ha) / No. of farmers to be benefited
1	NABARAD	Technical support/ financial support	50
2	ATMA project- Gir Somnath	Technical support/ financial support	200
3	Dept. of Agril. – Gir Somnath	Technical support/ financial support	50
4	FTC- Junagadh	Technical support/ financial support	50

8. Innovator Farmer's Meet 2024

Sl.No.	Particulars	Details
	Are you planning for conducing Farm Innovators meet in your district?	Yes/ No
	If Yes likely month of the meet	Dec - 2024
	Brief action plan in this regard	We will invite about 50 innovative farmers and share their views to others 250 farmers. Also try to solve the issues those are facing by the majority of farmers presently

9. Utilization of hostel facilities

S. No.	Month	No. of days to be utilized
1	**Jan - Dec**	**150**
	Total	**150**

10. Details of online activities planned (If any)

S. No.	Type of activities	No. of programmes	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live, etc)	No. of participants to be covered
1	Farmers trainings	05	Video conferencing	100
2	Farmers scientist's interaction programme	01	Audio conferencing	25
3	Farmers seminars	01	Facebook live/ You tube live	25
4	Expert lectures	05	Facebook live	100
5	Any other (Lecture delivered)	02	You tube live	40

11. Details of collaborative applied research projects planned if any

S. No.	Name of the research project	Funding agency	Collaborating organizations	Year of commencement	Major activities planned
-	-	-	-	-	-
-	-	-	-	-	-

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
April 2024	PF/FW	Millets crops production system and their health benefits for farmer	1	5	5	10	5	5	10	20
June 2024	PF/FW	Scientific package of practices for Kharif groundnut and Soybean	1	5	5	10	5	5	10	20
July 2024	PF/FW	Importance of Natural farming and their benefit on soil health	1	5	5	10	5	5	10	20
Nov 2024	PF/FW	Spraying techniques: important tools for efficient uses of Agro Inputs	1	5	5	10	5	5	10	20
Horticulture										
Feb.2024	PF/FW	Layout and Management of young plants/ orchards and Natural Farming	01	5	5	10	5	5	10	20
Aug-2024	PF/FW	Cultivation of fruits and Natural Farming	01	5	5	10	5	5	10	20
Sept-2024	PF/FW	Importance of micro irrigation system in vegetable/ fruit crops	01	5	5	10	5	5	10	20
Nov-2024	PF/FW	Nursery raising for vegetables and Natural Farming	01	5	5	10	5	5	10	20
Dec-2024	PF/FW	Cultivation of fruits and Natural Farming	01	5	5	10	5	5	10	20
Soil Health										
May-2024	PF/FW	Importance of soil and water testing for the better crop production: **Soil and Water Testing**	01	5	5	10	5	5	10	20
June-2024	PF/FW	Integrated approaches of nutrient management in crop production: **Integrated Nutrient Management**	01	5	5	10	5	5	10	20
Nov-2024	PF/FW	Importance of Biological fertilizer and quality production of FYM for better crop production. **Production and use of organic inputs**	01	5	5	10	5	5	10	20
Dec-2024	PF/FW	Nutrient management in Major crops and techniques to maintain soil fertility: **Soil fertility management**	01	5	5	10	5	5	10	20
Home Sc.										
Jan-.2024	PF/ FW	Natural kitchen gardening	01	5	5	10	5	5	10	20
Feb.-2024	PF/ FW	Use & Importance drumstick leaves powder and drumstick pods in our daily diet	01	5	5	10	5	5	10	20
Jun. -2024	PF/ FW	Nutritional natural kitchen gardening	01	5	5	10	5	5	10	20
July.-2024	PF/ FW	Use & importance of different drudgery reduction technologies	01	5	5	10	5	5	10	20
Nov.-2024	PF/ FW	Bakery products making from millets	01	5	5	10	5	5	10	20

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Plan Protection										
Feb -2024	PF/FW	Integrated disease management in green gram and Natural Farming	01	5	5	10	5	5	10	20
July- 2024	PF/FW	Integrated pest management in Groundnut & cotton and Natural Farming	01	5	5	10	5	5	10	20
Oct.- 2024	PF/FW	IPM approaches for Wheat and Chickpea and Natural Farming	01	5	5	10	5	5	10	20
Fisheries										
Jan.-2024	PF/ FW	Value addition in fresh fish	01	5	5	10	5	5	10	20
Feb.-2024	PF/ FW	Brackish water Shrimp farming	01	5	5	10	5	5	10	20
Livestock										
Sep.-2024	PF/FW	Dairy management	01	5	5	10	5	5	10	20
Nov.-2024	PF/ FW	Disease management in Cattle (Bovine viral Diarrhea)	01	5	5	10	5	5	10	20
Dec.-2024	PF/ FW	feed management in Cattle	01	5	5	10	5	5	10	20
Capacity Building and group dynamics										
June-2024	PF/FW	Leadership development among farmers/farm women	01	5	5	10	5	5	10	20
Aug- 2024	PF/FW	Scope of entrepreneurship development in agriculture sector	01	5	5	10	5	5	10	20
Oct-2024	PF/FW	Importance of natural farming in various crop	01	5	5	10	5	5	10	20

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
Jan 2024	PF/FW	Natural farming: New era in rainfed crop production system	01	5	5	10	5	5	10	20
Feb 2024	PF/FW	Preparation of Natural Farming Inputs	01	5	5	10	5	5	10	20
April 2024	PF/FW	Importance of millets and its health benefit to farming community	1	5	5	10	5	5	10	20
April 2024	PF/FW	Water management in summer crop	1	5	5	10	5	5	10	20
April 2024	PF/FW	Preparation of NF inputs for Natural farming	1	5	5	10	5	5	10	20
May 2024	PF/FW	Importance of Organic farming and preparation of organic input	1	5	5	10	5	5	10	20
June 2024	PF/FW	Scientific Cultivation of Kharif crop (Groundnut and Soybean)	1	5	5	10	5	5	10	20
August 2024	PF/FW	Importance of IFS and Its components	1	5	5	10	5	5	10	20
November 2024	PF/FW	Scientific way of seed production in self-pollinated Rabi crop	1	5	5	10	5	5	10	20

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Horticulture										
Jan-2024	PF/FW	Cultivation of fruits through Natural Farming	01	5	5	10	5	5	10	20
Feb-2024	PF/FW	Management of young plants/orchards and Natural Farming	01	5	5	10	5	5	10	20
May- 2024	PF/FW	Value addition of major seasonal fruits	01	5	5	10	5	5	10	20
June-2024	PF/FW	Production of low volume and high value crops & Management of millet	01	5	5	10	5	5	10	20
July-2024	PF/FW	Management of off seasonal vegetables	01	5	5	10	5	5	10	20
Aug-2024	PF/FW	Training & Pruning in young & old orchards of Mango and Natural Farming	01	5	5	10	5	5	10	20
Sep-2024	PF/FW	Layout and management of orchards and Natural Farming	01	5	5	10	5	5	10	20
Oct - 2024	PF/FW	Cultivation of fruits through Natural Farming	01	5	5	10	5	5	10	20
Nov.-2024	PF/FW	Role of fertigation system and plastic mulch for better water use efficiency and quality production	01	5	5	10	5	5	10	20
Soil Health										
Feb-2024	PF/FW	Application of Nutrients through Drone technology: **Nutrient Use efficiency**	01	5	5	10	5	5	10	20
Mar-2024	PF/FW	Use of biological fertilizers in Major Summer Crops: **Production and use of organic inputs**	01	5	5	10	5	5	10	20
May-2024	PF/FW	Scientific methods for collection of soil and water sample and importance of soil & water testing for better crop production: **Soil and Water Testing**	01	5	5	10	5	5	10	20
May-2024	PF/FW	Importance of soil & Water testing for better crop production: **Soil and Water Testing**	01	5	5	10	5	5	10	20
June-2024	PF/FW	Integrated Nutrient application approaches for the better crop production: **Integrated Nutrient Management**	01	5	5	10	5	5	10	20
July-2024	PF/FW	Identification of micronutrient deficiency symptoms and its control measure: **Micro nutrient deficiency in crops**	01	5	5	10	5	5	10	20
Sept-2024	PF/FW	Various techniques to improve nutrient use efficiency in major crops: **Nutrient Use Efficiency**	01	5	5	10	5	5	10	20

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Oct-2024	PF/FW	Importance of soil & Water testing and Scientific methods of sample collection: **Soil and Water Testing**	01	5	5	10	5	5	10	20
Nov-2024	PF/FW	Integrated Nutrient Management in various Rabi Crops: **Integrated Nutrient Management**	01	5	5	10	5	5	10	20
Home Sc.										
Feb.2024	PF/ FW	Use of ecofriendly solar dryer for drying of Agricultural products	01	5	5	10	5	5	10	20
Mar.2024	PF/ FW	Importance of drumstick & its value added products	01	5	5	10	5	5	10	20
Apr. 2024	PF/ FW	Use of ecofriendly solar dryer for drying of Agricultural products	01	5	5	10	5	5	10	20
May 2024	PF/ FW	Organic methods of grain storage	01	5	5	10	5	5	10	20
June 2024	PF/ FW	Importance of natural kitchen garden for living healthy life Use of soybean in our daily diet & its products	01	5	5	10	5	5	10	20
July 2024	PF/ FW	Use of spiral seed separator for grading and cleaning of Soybean and other rounded seeds	01	5	5	10	5	5	10	20
Aug.2024	PF/ FW	Health care and balance diet for farm women	01	5	5	10	5	5	10	20
Sept.2024	PF/ FW	Nutritional diet and its deficiency diseases	01	5	5	10	5	5	10	20
Nov.2024	PF/ FW	Use and importance of Soybean in our daily diet	01	5	5	10	5	5	10	20
Plant Protection										
Jan - 2024	PF/FW	Integrated disease management in mango and Natural Farming	01	5	5	10	5	5	10	20
Feb - 2024	PF/FW	Integrated disease management in Green Gram and Importance of Natural Farming	01	5	5	10	5	5	10	20
April – 2024	PF/FW	Bio-control of pests & diseases and Importance of Natural Farming	01	5	5	10	5	5	10	20
May-2024	PF/FW	Integrated pest management in Bajra and Importance of Natural Farming	01	5	5	10	5	5	10	20
July -2024	PF/FW	Integrated disease management in cotton & groundnut and Natural Farming	01	5	5	10	5	5	10	20
Aug-2024	PF/FW	Integrated Pest and disease management in Bajra	01	5	5	10	5	5	10	20
Oct – 2024	PF/FW	Bio-control of pests & diseases and Natural Farming	01	5	5	10	5	5	10	20

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Nov-2024	PF/FW	Integrated pest management in Sugarcane, wheat and Chickpea	01	5	5	10	5	5	10	20
Dec – 2024	PF/FW	Integrated disease management in mango and Natural Farming	01	5	5	10	5	5	10	20
Fisheries										
July.-2024	PF/ FW	Value addition in dry fish	01	5	5	10	5	5	10	20
July-2024	PF/ FW	Fish processing & value addition	01	5	5	10	5	5	10	20
Aug.-2024	PF/ FW	Integrated fish farming	01	5	5	10	5	5	10	20
Oct.-2024	PF/ FW	Brackish water shrimp farming	01	5	5	10	5	5	10	20
Livestock										
Apr.-2024	PF/ FW	Dairy management	01	5	5	10	5	5	10	20
May-2024	PF/ FW	Poultry management	01	5	5	10	5	5	10	20
Jun.-2024	PF/ FW	Feed management in cattle	01	5	5	10	5	5	10	20
Capacity Building and group dynamics										
Feb.- 2024	PF/FW	Role of ICT to promote the organic products	01	5	5	10	5	5	10	20
Mar.- 2024	PF/FW	Government schemes to promote natural farming	01	5	5	10	5	5	10	20
May-2024	PF/FW	Importance of entrepreneurship development for the farmers	01	5	5	10	5	5	10	20
June-2024	PF/FW	Formation and management of groups	01	5	5	10	5	5	10	20
July-2024	PF/FW	Scope of entrepreneurship in natural farming	01	5	5	10	5	5	10	20
Aug.-2024	PF/FW	Capacity building through entrepreneurship development in agriculture sector	01	5	5	10	5	5	10	20
Sep-2024	PF/FW	FPO: A pathway for capacity building of farmers/ farm woman	01	5	5	10	5	5	10	20
Nov-2024	PF/FW	Marketing strategies for the minor millets	01	5	5	10	5	5	10	20
Dec-2024	PF/FW	Entrepreneurship development through Natural farming	01	5	5	10	5	5	10	20

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Honey bee	Bee Keeping	Scientific Bee Keeping	Feb. -2024	4	5	5	10	5	5	10	20
Fisheries	Shrimp farming	Brackish water Shrimp farming	March-2024	4	5	5	10	5	5	10	20
Ag. Extension	Capacity building	Capacity building through Agri-entrepreneurship	Dec-2024	4	5	5	10	5	5	10	20

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
May - 2024	ATMA/GOVT. staff/ Agro Dealers	Use of Integrated Approaches for Natural Resources management by Community	01	5	5	10	5	5	10	20
July-2024	ATMA/GOVT. staff/ Agro Dealers	Role of various nutrient in the plant life cycle and its application through Drone technology : **Nutrient Use Efficiency**	01	5	5	10	5	5	10	20
August - 2024	ATMA/GOVT. staff/ Agro Dealers	Integrated pest and disease management in Groundnut and Cotton: IPM	01	5	5	10	5	5	10	20
Nov.- 2024	ATMA/GOVT. staff/ Agro Dealers	Leadership development in FIGs	01	5	5	10	5	5	10	20

iv) Sponsored programmes

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Agronomy	ATMA/Other Agency	PF/FW	Importance of Organic farming and preparation of organic input	01	5	5	10	5	5	10	20
Horticulture	ATMA/Other Agency	PF/FW	Cultivation of fruits through Natural Farming	01	5	5	10	5	5	10	20
Soil Science	ATMA/Other Agency	PF/FW	Application of biological fertilizers for better crop production**: Production and use of organic inputs**	01	5	5	10	5	5	10	20
Plant Protection	ATMA/Other Agency	PF/FW	Integrated disease and pest management in Groundnut: IPM	01	5	5	10	5	5	10	20
Home Science	ATMA/Other Agency	PF/FW	Health care and balance diet for farm women	01	5	5	10	5	5	10	20
Agril. Extension	ATMA/Other Agency	PF/FW	Formation and management of groups	01	5	5	10	5	5	10	20
Livestock	State poultry department	PF/FW	Poultry farming	02	10	10	20	10	10	20	40
			Total	**08**	**40**	**40**	**80**	**40**	**40**	**80**	**160**
(b) Sponsored research programme											
c) Any special programmes											
			Total								

Details of Budget Estimate (2024-25) based on proposed action plan

S. No.	Particulars	Proposed BE 2024-25 (Rs.)
1	**Recurring Contingencies**	
1.1	**Pay & Allowances**	**210.00**
1.2	**Traveling allowances**	**1.50**
1.3	**Contingencies**	**15.00**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	
B	POL, repair of vehicles, tractor and equipment	
C	Meals/refreshment for trainees (ceiling upto Rs.150/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 Recurring Contingencies	**226.50**
2	**Non-Recurring Contingencies**	
2.1	**Works**	
2.2	**Equipment including SWTL & Furniture**	
2.3	**Vehicle** (~~Four-wheeler~~/Two-wheeler, please specify)	**2.00**
2.4	**Library** (Purchase of assets like books & journals)	
	TOTAL Non-Recurring Contingencies	
	GRAND TOTAL	**228.50**