ICAR-ATARI, Pune

ANNUAL ACTION PLAN OF KVKs DURING 2024

(1st January to 31st December, 2024)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address
	Office	Fax		
KVK-Vadodara (Mangalbharti) At & Po.Golagamdi, Ta.Sankheda, Dist. Chhotaduepur.-391125	08141150500	-	kvkvdr@gmail.com	www.kvkvadodara.org

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

Address	Telephone		E mail	Website address
	Office	Fax		
Mangalbharti At. & Po.Golagamdi, Ta.Sankheda, Dist. Chhotaduepur.-391125	08141150500	-	kvkvdr@gmailcom	www.kvkvadodara.org

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Bharat M. Mehta	08141150500	094268 34346	bmehta_61@rediffmail.com

1.4. Year of sanction: 1995

1.5. Staff Position (as on March 31, 2023)

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	Date of joining
1.	Senior Scientist and Head	Dr.B.M.Mehta	9426834346	Horticulture	17/09/2013
2.	Subject Matter Specialist	C. R. Patel	9725017823	Agronomy	23/06/2011
3.	Subject Matter Specialist	M. C. Brahmbhatt	9909033890	Horticulture	11/07/2011
4.	Subject Matter Specialist	Animal Science			
5.	Subject Matter Specialist	Mrs. Leena Joshi	7990624014	Home Science	02/05/2023
6.	Subject Matter Specialist	B. L. Dhayal	9879013551	Ext.Edu	23/08/2013
7.	Subject Matter Specialist	V.D.Patel	9099216798	Plant Protection	06/02/2017
8.	Programme Assistant	K. K. Sutaria	8238089309		01/12/2008
9.	Computer Programmer	M.R.Kulkarni	9429824313		21/01/2008
10.	Farm Manager	Hariom Sharma	9437227991		02/09/2013
11.	Accountant/Superintendent	V.V.Shah	8238089320		04/06/2001
12.	Stenographer	C.M.Raval	9265712399		02/09/2013
13.	Driver 1	R.N.Prajapati	8238089304		17/01/2008
14.	Driver 2	Z. S.Vora	8238089376		27/06/2011
15.	Supporting staff 1	P.B.Rathwa	8238089311		05/09/2003
16.	Supporting staff 2	J.R.Tadvi	9904123920		29/07/2002

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.30
2.	Under Demonstration Units	2.00
3.	Under Crops	8.00
4.	Horticulture	1.50
5.	Pond	0.50
6.	Others if any	6.70

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	2001	561.43	18,23,216/-	-	-	-
2.	Farmers Hostel	ICAR	2011	300.75	26,57,744/-			
3.	Staff Quarters (8+6=14)	ICAR	2001	694.61	29,23,910/-	-	-	-
4	Fencing	ICAR	2006	1709 Rmt.	3,45,000/-	-	-	-
5	Rain Water harvesting system	ICAR	2007	62x39mt.	9,78,000/-	-	-	-
6	Threshing floor	ICAR	2010	41.82 (sqmt)	1,93,440/-	-	-	-
7	Farm godown	ICAR	2010	55.76 (sqmt)	2,86,422/-	-	-	-
8	Implement shed	ICAR	2010	55.76	2,99,000/-			

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

Sl.No.	Date
1. Scientific Advisory Committee	February ' 2024 (Already completed)

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
Crop	Agril. Alone Agril. Horticulture Agril.-Animal Husbandry Agril.-silviculture
Enterprise	Agriculture and Animal Husbandry

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	Middle Gujarat zone III	Average rain fall is 800-1000 mm. Geographically Vadodara district is located between 21^0 49' to 22^0 49' north latitude and 72^0 51' to 74^0 17' east longitude

b) Topography

S. No.	Agro ecological situation	Characteristics
1	Sandy loam soil with high rain fall	Altitude (in meter above MSL): 25-75 Taluka : Vadodara, Padara, Savli, Dabhoi, Waghodia
2	Medium black soil with high rain fall	Altitude (in meter above MSL): 75-150 Taluka: Pavijetpur, Chhotaudepur, Naswadi, Karjan
3	Deep black soil with high rain fall	Altitude (in meter above MSL): 25-75 Taluka: Dabhoi, Sankheda, Shinor, Karjan
4	Light soil with high rain fall	Altitude (in meter above MSL): 150-300 Taluka: Chhotaudepur (tribal base)

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Black soil	Moderate to severe erosive Poor soil Fertility Poor Irrigation facility	88864
2	Medium black	Water logging Very Poor Permeability Poor Soil Physical condition Low to medium in N & P Content	208646
3	Sandy loam	Highly erosive Shallow to medium in depth Poor permeability Low to medium N & P content	174021
4	Sandy	Sandy soils are often dry, nutrient deficient and fast-draining. They have little (or no) ability to transport water from deeper layers through capillary transport.	36305
5	Salt affected	saline soils are those which have an electrical conductivity of the saturation soil extract of more than 4 dS/m at 25°C , Sodium and chloride are by far the most dominant ions	4888

2.4. Area, Production and Productivity of major crops cultivated in the district (2019-20)

Sr. No	Crop	Vadodara			Chhotaudepur		
		Area (ha)	Production (mt)	Productivity (qt/ha)	Area (ha)	Production (mt)	Productivity (qt/ha)
A	***Kharif* :**						
1	Cotton (Lint)	**74944**	**367612**	**83.38**	**88111**	377064	72.75
2	Pigeon Pea	**25747**	31695	123.10	**13368**	17588	131.56
3	Paddy	**28954**	58294	201.33	**13929**	21747	156.12
4	Maize	162	316	19.49	**22381**	37953	16.95
5	Bajara	168	311	185.24	11	18	**163.84**
6	Castor	**37274**	76160	204.32	1068	2302	215.54
7	Green gram	20	9	44.38	5	2	44.37
8	Black gram	67	40	59.28	**50**	**32**	**63.96**
9	Soybean	9941	13857	139.39	**14865**	**25476**	**171.38**
B	***Rabi***						
1	**Maize**	4913	15586	317.24	13761	36938	268.42
2	**Wheat**	29053	69527	239.31	980	3234	330.53
3	**Gram**	507	967	190.76	1540	3179	206.44
C	**Summer**						
1	**Groundnut**	9	19	216.21	290	627	216.21
2	**Bajara**	4725	10451	221.18	152	443	291.33
3	**Green gram**	292	387	132.48	900	1192	132.48
4	**Sesamum**	123	59	480.00	288	109	380.00
	Horticultural crops						
1	**Fruits**	20087	695200	346.10	12226	606814	496.30
2	**Vegetables**	38310	697332	182.00	15008	296603	197.60

Statistical Report Govt.of Gujarat (2022-23)

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

Category	Population(00 No)	Production (mt)	Productivity(kg/day)
Cattle			
Crossbred	4860	33.71	11.85
Indigenous	2694	102	5.53
Buffalo	5878	253	6.24
Sheep	132	4.12	932
Goats	2916	13.45	0.66
Poultry			
Hens	3323	160.55	125
Desi	-	-	-
Category		Production (Q.)	Productivity
Fish (Reservoir)	-	-	-

Statistical Report Govt.of Gujarat (2021-22)

2.7. Details of Operational area / Villages

Sl No	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sankheda	Sankheda	**Saradiya, Raipur, Sundarpura,Kathmandva,Targod, Navapura, Ambapura ,Vagetha, Deroli,Amalpur, Kapdiya,Fajalpura,Bamroli, Kandewar**	***Kharif*** Cotton Pigeonpea Castor Banana Vegetables ***Rabi*** Maize **Summer** Greengram Groundnut	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4. Problem of pest & diseases 5. Depends only on manual weeding **Pigeon pea** 1. Improper spacing 2. Use of higher seed rate 3. Improper pest and disease management 4. Improper water management 5. Depends only on manual weeding **Castor** 1. Use of higher seed rate 2. Improper spacing 3. Indiscriminate use of fertilizer 4. Improper water management 5. Problems of wilt, rootrot and semi looper **Banana** 1.No use of tissue culture plants 2. Not follow seed treatment to rhizome 3. Excess use of fertilizer 4. Excess use of water 5. Improper disease management **Maize** 1. Use of higher seed rate 2. Improper spacing 3. Higher application of nitrogenous fertilizer 4. Improper water management **Greengram** 1. Use of local seeds 2. Use of higher seed rate 3. Improper water management 4. Improper pest and disease management	INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM IPM IDM IWM ICM INM IWM ICM IPM`
2.	Naswadi	Naswadi	**Dhamasiya,Pochamba,Payakui,Kolamba,Akona.**	***Kharif*** Cotton Paddy Castor ***Rabi*** Wheat Gram **Summer** Greengram Groundnut	**Paddy** 1.Use of local seeds 2.Application of higher dose nitrogenous fertilizer 3.No use of micronutrients 4. T.P. at random method 5.In adequate and delayed plant protection 6.Use more seed rate 7.Problem of BLB, Hopper and stem borer **Wheat** 1. Use of local seeds 2. Delayed sowing 3. Use of higher rate of seed 4. Improper water management	ICM SRI INM IPM INM IWM ICM

					5. Improper nutrient management 6. No use of micronutrients and Bio-fertilizers **Greengram** 1. Use of local seeds 2. Use of higher seed rate 3. Improper water management 4. Improper pest and disease management	ICM INM IPM
3.	Waghodia	Waghodia	**Goraj, Rojyapura,Nurpuri,Dolapura.**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi*** Maize Gram **Summer** Greengram	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding Pigeonpea 1. Improper spacing 2. Use of higher seed rate 3. Improper pest and disease management 4. Improper water management 5. Depends only on manual weeding Castor 1.Use of higher seed rate 2.Improper spacing 3.Indiscriminate use of fertilizer 4.Improper water management 5. Problems of wilt, rootrot and semi looper Maize 1. Use of higher seed rate 2. Improper spacing 3. Higher application of nitrogenous fertilizer 4. Improper water management Greengram 1. Use of local seeds 2. Use of higher seed rate 3. Improper water management 4. Improper pest and disease Management	INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM INM IWM ICM IPM
4.	Kawant	Kawant	**Khatiyawat, Baladgam, Mudamore,Kherka,Karajwant,Raypur,Piplada,Kanlalva , Gordha,Jamba.**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi*** Maize Gram **Summer** Greengram	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding **Pigeonpea** 1. Improper spacing 2. Use of higher seed rate 3. No use of micronutrients 4. Improper pest and disease management 5. Improper water management 6. Depends only on manual weeding **Maize** 1. Use of higher seed rate 2. Improper spacing 3. No use of micronutrients 4. Higher application of nitrogenous fertilizer 5. Improper water management	INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM INM IWM

5.	Pavijetpur	Pavijetpur	**Ranbhunghati,Butiyapura,Kallarani,Haripura,**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi*** Maize Gram **Summer** Greengram	Paddy 1.Use of local seeds 2.Application of higher dose nitrogenous fertilizer 3.No use of micronutrients 4. T.P. at random method 5.In adequate and delayed plant protection 6.Use more seed rate 7.Problem of BLB, Hopper and stem borer Cotton : 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding Maize 1. Use of higher seed rate 2. Improper spacing 3. No use of micronutrients 4. Higher application of nitrogenous fertilizer 5. Improper water management	INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM
6	Bodeli	Bodeli	**Kapdiya,Nana Butiyapura,Ranbunghati, Mota Butiyapura,Navapura, Kathmandva, Pitha, Bhagwanpura,Dhroliya, Vaniyadri,Kosum, Amalaug, Tandlja, Khodiya, Dholpur, Timbi, Ladhod, Desan, Sajva, Dhebarpura,Deroli,Gordhanpura, Mota Raska.**	***Kharif*** Cotton Pigeonpea Castor Banana Vegetables ***Rabi*** Maize **Summer** Greengram Groundnut	Cotton : 6. Higher application of nitrogenous fertilizers 7. Improper water management 3. No use of micronutrients 9. Problem of pest & diseases 10. Depends only on manual weeding Pigeon pea 1. Improper spacing 2. Use of higher seed rate 3. Improper pest and disease management 4. Improper water management 5. Depends only on manual weeding Castor 6. Use of higher seed rate 7. Improper spacing 8. Indiscriminate use of fertilizer 9. Improper water management 10. Problems of wilt, rootrot and semi looper Banana 1.No use of tissue culture plants 2. Not follow seed treatment to rhizome 3. Excess use of fertilizer 4. Excess use of water 5. Improper disease management Maize 1. Use of higher seed rate 2. Improper spacing 3. Higher application of nitrogenous fertilizer 4. Improper water management Greengram 1. Use of local seeds 2. Use of higher seed rate 3. Improper water management	INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM IPM IDM IWM ICM INM IWM ICM IPM`

					4. Improper pest and disease management	
7.	Chhotaudepur	Chhotaudepur	**Dhandoda,Raipur ,Nani Dumali,Moti Dumali,Rojkuva , Kanas, Rangpur, Gunata**	***Kharif*** Cotton, Pigeonpea, Castor Vegetables ***Rabi*** Maize Gram **Summer** Greengram	**Cotton :** 1. Higher application of nitrogenous fertilizers 2. Improper water management 3. No use of micronutrients 4.Problem of pest & diseases 5. Depends only on manual weeding **Pigeonpea** 1. Improper spacing 2. Use of higher seed rate 3. No use of micronutrients 4. Improper pest and disease management 5. Improper water management 6. Depends only on manual weeding **Maize** 1. Use of higher seed rate 2. Improper spacing 3. No use of micronutrients 4. Higher application of nitrogenous fertilizer 5. Improper water management	INM IWM IPM Water Mgt. ICM INM IPM IWM ICM INM IWM IPM ICM INM IWM

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Cotton	Integrated Nutrient Management Integrated Pest Management Integrated Weed management Varietal evaluation
Rice	Varietal evaluation Water Management Integrated Weed Management Integrated Nutrient management Integrated pest Management
Pigeonpea	Varietal evaluation Production and use of organic inputs Integrated pest Management
Gram	Varietal evaluation Production and use of organic inputs Integrated pest Management
Wheat	Integrated crop management Varietal evaluation Integrated weed management Integrated Nutrient management
Maize	Varietal evaluation Integrated Nutrient Management Integrated weed management
Castor	Integrated Pest & Disease Management Varietal evaluation Integrated Nutrient Management Water Management
Green gram	Varietal evaluation Integrated Pest & Disease Management
Urd bean	Varietal evaluation Integrated Pest & Disease Management
Soybean	Varietal evaluation///Integrated Pest & Disease Management
Cucurbits	Integrated Pest & Disease Management//Integrated Nutrient management
Banana	Integrated Nutrient Management //Integrated Weed management//Water Management
Vegetables	Integrated Pest & Disease Management Integrated Nutrient management
Animal husbandry	Management of Dairy animal for maximize the milk production Clean milk production, Animal Health management
Home science	Nutritional security for women and child popularize the drudgery reduction technology//Value addition Income generation activity

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

S. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	09	18	5	23
2	Front Line Demonstration	23	337	322	659
3	Cluster Front Line Demonstrations (O & P)	02	225	0	225
4	Training Programmes	87	1325	1185	2510
4.1	Farmers / Farm Women	75	1105	1045	2150
4.2	Rural Youth	4	60	60	120
4.3	Extension Functionaries	8	160	80	240
5	Extension Activities (Major)	520	14142	7119	21281
	Total	643	15972	8631	24603

3.1. B. Operational areas details proposed during 2023

Sr.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1.	Cotton	Injudicious use of chemical pesticides and lack of knowledge	535	Ambapura, Sundarpura	OFT On Assessment of IPM module for sucking pest in cotton
		Not using of bio pesticides	2020	Pitha, Vaniyadri	Training & method demonstration.
		Not using IPM Module.	1520	Sundarpura Butiyapura	FLD on IPM. Training and Field day.
		Non use of improved varieties.	220	Raipur,Kanalwa	FLD on Introduction of High density verity GTHH-49. Training and Field day.
		Not follow proper weed management practices.	1020	Raipur,Kanalwa	Training and Group meeting
		Not use of bio-fertilizer and Micro nutrient.	2020	Raipur,Kanalwa	Training and Group meeting
3	Maize	Not using of bio pesticides	570	Kathmandva, Navapura	FLD on bio-pesticide and Training and Field day.
		Not follow proper weed management practices.	220	Kathmandva, Navapura	Training and Group meeting
		Not use of bio-fertilizer and Micro nutrient.	270	Kathmandva, Navapura	Training and Group meeting
4	Urdbean	Non use of improved varieties.	470	Rangpur,Surshi	FLD on High yield Variety PU-31/NUL-7/IPU-2-43
		Not follow proper weed management practices.	270	Rangpur, Surshi	Training and Group meeting
		Not using IPM Module.	270	Rangpur, Surshi	Training and Group meeting
5	Soybean	Non use of improved varieties.	330	Kalarani, Raypur	FLD on High yield Variety KDS-344/NRC-37 and Field day
		Not follow proper weed management practices.	370	Kanalva, Gordha	Training and Group meeting
		Not using IPM Module.	350	Kanalva, Gordha	Training and Group meeting

6	Green gram	Low productivity due to Non use of improved varieties.	170	Jamli, Bhagvanpura	OFT on assessment of performance of different varieties of summer green gram FLD on High yield Variety GAM-5 and Field day and training.
		Not follow proper weed management practices.	120	Jamli, Bhagvanpura	Training and Group meeting
		Not using IPM Module.	120	Jamli, Bhagvanpura	Training and Group meeting
7	Pigeon pea	Non use of improved varieties.	270	Golagamdi, Manjrol	FLD on High yield Variety / GJP-1 / GT-106 and Field day.
		Low productivity due to Non use of improved varieties.	170	Golagamdi, Manjrol	OFT on assessment of performance of different varieties under unirrigated and rainfed condition
		Not follow proper weed management practices.	170	Golagamdi, Manjrol	Training and Group meeting
		Not using IPM Module.	170	Golagamdi, Manjrol	Training and Group meeting
8	Sesame	Non use of improved varieties.	120	Vaniyadri	FLD on GT-5/3 and Field day.
9	Chilli	Non use of improved varieties.	120	Tokarva,Vaniyadri Fajalpura,Kathmandava	OFT on Assessment of Variety of Chilii Arka Harita and Kashi Gaurv. Training on cultivation Practices, IPM and INM
10	Okra	Low yield Use of YVM susceptible varieties. Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides.	170	Shithol,Nana Butiyapura,Tokarva Ranbhun ghati Targol, sagadhra	OFT On Assessment of Varieties of Okra Training on improved cultivation Practices like INM,IPM
11	Tomato	Low yield Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides.	220	Kalarani,Khodiya Panej,Fajalpura Ambapura,	OFT On Assessment of pest and disease resistant Varieties of Tomato Healthy seedling Provision Training on INM and IPM in tomato
		High infection of TLMV, Late blight Yield losses due to diseases	220	Kalarani,Khodiya Panej,Fajalpura Kathmandava	FLD on Arka Rakshak Healthy seedling Provision Training on improved cultivation Practices
12	Banana+ Cabbage	Not following inter cropping in banana	120	Ambapura,Muldhar Fajalpura,	FLD on Inter Cropping with Cabbage(1:4) Training on INM and Irrigation management FLD on Banana Special fertilizer
13	Kitchen Garden	• Poor health and nutritional status of farm families	100 Nos	Kacchata,, Sundarpura, Khodiya	FLD & Training on Kitchen garden (Nutritional security by kitchen garden)

					FLD on Vegetable Special fertilizer
14	Poultry	Low body weight Less eggs production	All local native breeds	Kanlva, sundrapura,vatvtiya	OFT On Assessment of kadaknath & Ankleshwar under Back yard poultry
15	Buffalo	Low milk yield	220	Sundrapura, bhagwanpura,vatvatiya	. Training and Group meeting
16	Sorghum	Low yield of fodder	250	Vanyadri, sundarpur , saradiya,butiyapura	FLD on Cofs-29 and OFT on GAFS-11 , GAFS-12, CSV-46F
		Non use of improved varieties	170	Vanyadri, sundarpur , saradiya,butiyapura	FLD on Cofs-29
17	Oat	Non use of improved varieties	170	Vanyadri, sundarpur , saradiya,butiyapura	FLD on OS-405
18	Feed Supplement for milking Buffalo	• Low milk yield and poor reproduction in buffalo	320	Vanyadri, sundarpur ,saradiya,butiyapura , bhagwanpura	FLD on Mineral Mixture and common salt
		• Low milk yield and poor reproduction in buffalo	250	Vanyadri, sundarpur ,saradiya,butiyapura , bhagwanpura	FLD on Stavari powder
		• Imbalance feeding	320	Vanyadri, sundarpur , saradiya,butiyapura ,bhagwanpura	. Training and Group meeting

3.2. Technologies to be assessed and refined

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

Thematic areas	**Cereals**	**Oilseeds**	**Pulses**	**Commercial Crops**	**Vegetables**	**Fruits**	**Flower**	**Plantation crops**	**Tuber Crops**	**TOTAL**
Varietal Evaluation			02		02					04
Integrated Pest Management				01	01					02
TOTAL			**02**	**01**	**03**					**06**

A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Wormiculture**	**Fisheries**	**TOTAL**
Production and Management								
Feed and Fodder	2							2
TOTAL	**2**							**2**

B. Details of On Farm Trial / Technology Assessment during 2024

Sr. No.	Crop/ enterprise	Prioritized problem	Title of OFT	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT (Rs.)	Parameters to be studied
1	Green gram (2nd Year)	Low productivity of Green gram due to non use of improved.	Assessment of performance of different varieties of summer Green gram under irrigated condition.	T1 : Farmers practices : Green gram (cv.GAM-5) T2 : To be assessed : Green gram (cv.GM-7) T3 :To be assessed : Green gram (cv.GAM-8)	AAU.Anand (2015) NAU.Navsari (2021) AAU.Anand (2022)	Seed of cv.GAM-5 cv.GM-7 cv. GAM-8	(8kg) (8kg)	1500	3	5000	Yield of Variety Disease index for MYMV No. of effective pods Maturity days
2	Pigeon pea (2nd Year)	Low productivity of Pigeon pea due to non use of improved varieties	Assessment of performance of different varieties of Pigeon pea under un irrigated/ rainfed condition.	T1 : Farmers practices (Market available seed GJP-1) T2 : To be assessed : GT-106 T3 : To be assessed : GT-105	JAU,Judagadh (2015) AAU,Anand (2022) SDAU,SKNagar (2018)	Seed of GJP-1 GT-106 GT-103	(6kg) (6kg)	1800	9	16200	Yield of Variety No. of seed per pods Maturity days No. of branch per plant
3	Wheat (2nd Year)	High cost & shortage of nitrogenous fertilizer.	Assessment of INM in Wheat	T1 : Farmers Practice (T1) 140-60-0 kg NPK/h T2 : Assessed Practice (T2) 120-60-0 kg NPK/h , AAU, Anand T3: Assessed Practice (T3) 50% N as a form of Urea + 50 % (Nano Urea) spray of NANO urea at tillering and Joining Stage (4 ml/ liter). IFFCO approved	(T2) AAU,Anand (2021) (T3) IFFCO approved	NANO urea	3 ltr	1500	3	4500	Cost of Cultivation Yield BCR

4	Tomato (2nd Year)	Low yield Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides.	Assessment of varieties in tomato	T1 : Farmer Practice T2: Guj Anand tomato 8 (GAT 8) Roma T3: Guj Tomato 6 (GT 6)	AAU (2021), JAU (2018)	Seedling of Tomato	10000 (Nos.)	10000	3	30000	Plant Population /unit area No. of Fruit /plant Period of 1st and last picking. Insect pest Infestation Yield & B:C ratio
5	Okra (2nd Year)	Low yield Use of YVM susceptible varieties. Poor Knowledge of improved cultivation practices Improper use of fertilizer and pesticides	Assessment of Varieties of Okra	T1: Farmer's Practice T2: Guj. Anand Okra (GAO) 8 Anand Komal T3: Guj. Okra 6 (GO 6)	AAU(2021), JAU (2018)	Seeds of Okra	10kg	5000	3	15000	No. of Plant infected due to YVM at 30, 60,90 DAS Insect pest population Suitability of variety for area specific cultivation. Yield of Verity & B:C ratio
6	IPM In Paddy (2nd Year)	Higher infestation of false smut disease	Assessment of technologies for the management of false smut disease in paddy	T1 : Farmers practices (Conventional fungicides and recent chemicals are used as tank mixture with higher dose) T2: To be assessed :Spray of Tebuconazole 50% + Trifloxystrobin 25% WG 0.06% (8 gm/10 liter of water) at the time of 50% panicle formation and second spray at the time of 100% panicle formation T3 : To be assessed : Spray of Propiconazole 25EC 0.0025% (10 ml/10 liter of water) at the time of boot leaf stage and second spray at the time of milking stage.	(T2) AAU, Anand (2021) (T3) NAU, Navsari (2020),	Tebuconazole 50% + Trifloxystrobin 25% WG 0.06% (8 gm/10 liter of water) Spray of Propiconazole 25EC 0.0025% (10 ml/10 liter of water)	850 800	2000	3	5000	% of false smut disease Yield of Crop Cost of Cultivation Benefit Cost Ratio

7	IPM In Chili (1st Year)	Crop loss due to black thrips in chilli	Assessment of effective management of black thrips in chilli	T1 : Farmers practices (Spray of Imidacloroprid) To be assessed : Furrow application of Carbofuran 3% CG, 33.3 kg/ha at the time of transplanting followed by sequential single spray of *Spinetoram* 11.7 SC, 0.012% (10 ml in 10 liter of water) at 10 days interval starting from the initiation thrips T3: To be assessed : Spray *Fipronil 5% SC* (20 gm in 10 liter of water) at starting from the initiation thrips	AAU,Anand (2022) DPPQS, Faridabad (2022)	Spinetoram 11.7 SC, 0.012% (10 ml in 10 liter of water) Fipronil 5% SC (20g in 10 ltr. of water)	1000 1000	2000	3	6000	No.of thrips/flower Yield of Crop Cost of Cultivation Benefit Cost Ratio
8	Home Science (1st Year)	Drudgery involved in farm women during Cleaning Pigeon peacrop/rice/grain	Assessment on use of Hanging type Grain cleaner with sack holder	T1 – Traditional method T2 – To be Assessed – Use of Hanging type Grain cleaner with sack holder	Inventory on Women Friendly Tools. ICAR-ATARI, Jabalpur-2016	Hanging type Grain cleaner with sack holder	6500	6500	2	13000	Work done/ Unit (Kg/hr) Cardiac cost reduction (%) Output (kg/h) Energy expenditure (kJ/min) Increase in work efficiency (%) Time Saving (%) Physiological cost reduction (%)
9	Home Science (1st Year)	Drudgery involved in farm women during harvesting of Cotton	Assessment on use of COTTON STALK PULLER (WHEEL TYPE)	T1 – Traditional method T2 – To be Assessed – Use of COTTON STALK PULLER (WHEEL TYPE)	Inventory on Women Friendly Tools. ICAR-ATARI, Jabalpur-2016	COTTON STALK PULLER (WHEEL TYPE)	1500	1500	3	4500	

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)

Crop	Season	Purpose of demonstration	Farming situation	Variety	Area (ha)	No. of demonstrations	Critical Inputs Identified	Cost of critical inputs (Rs)	Parameters of observation
Oilseed									
Soybean	Kharif-24	Introduction of New Variety	Irrigated	NRC 37/ KDS 344 Devgadhbariya, AAU.Anand 2017 (Endorsed)	10	25	Seed (25 kg/Acre) Variety-NRC 37 Seed Treatment (Trichoderma viride @ 10 gm/kg seed)	50000/-	Maturity days No. of pods per plant Test weight of Grain
Sesame	Summer-25	ICM	Irrigated	Variety-G Til 5/3 JAU, Junagadh 2012,2015	10	25	*Seed (3 kg/ha) Variety-GT 5/3*	11500/-	Yield of Variety and BCR
Green-gram	Summer-25	Introduction of New Variety	Irrigated	GM- 6 (NAU, Navsari 2018)	10	25	GM -6 Seed (8 kg)	Rs.30000/-	Yield of Variety Disease index for MYMV No. of effective pods Maturity days Sucking pest infestation
Pigeon-pea	Kharif-24	Introduction of New Variety	Irrigated	GJP 1 JAU, Junagadh (2015)/ GT-106	10	25	GJP 1 Seed (6 kg)	Rs.15000/-	Yield of Variety No. of seed per pods Maturity days No. of branch per plant Sucking pest and pod borer infestation
Gram	Rabi-24	Introduction of New Variety	Irrigated	GG-5 JAU-Junagadh (2017)	4	10	GG-5 Seed (25 kg)	Rs.40000/-	Yield of Variety Maturity days No. of branch per plant Sucking pest and pod borer infestation

Black gram	Summer-25	Introduction of New Variety	Irrigated	Shyamal	5	10	Shyamal seed Seed (8 kg)	Rs.26000/-	Yield of Variety Maturity days No. of branch per plant Sucking pest and pod borer infestation
Paddy	Kharif-24	Introduction of New Variety	Irrigated	GR-21 (AAU, Anand-21)	8	20	Seed 10 kg Micro Nutri. (10kg)	Rs.33000/-	Yield & BCR Maturity Days No.of Penicals
Maize IPM	Rabi-24	Management of falls army worm AAU,Anand & Ministry of Agri. And Farmers welfare, New Delhi (2019)	Irrigated	Pvt.Hyb	8	20	Installation of pheromone traps @ 5/Acre. Poison baiting: Keep the mixture of 25 kg rice bran + 5 kg jaggary for 24 hours to ferment. Add 250 g Thiodicarb 75 WP just half an hour before application in the field and applied into the whorl of the plants when crop stage 25-30 DAS <u>OR</u> Spray *Emamectin benzoate 5 SG* 5 gm OR *Chlorantraniliprole 18.5 SC* 3 ml <u>OR</u> Spray of *Metarhizium anisopliae* 40 gm in 10 ltr of water at starting from the pest infestation.	Rs.20000/-	Pest population and cost of control measures.
Cotton	Kharif-24	Varietal (JAU, Junagadh Year of release 2020	Irrigated	GCH-24 BG II	10.0	25	GCH-24 BG II (400 gm) Micro Nutrient (10 kg/acre)	Rs.23000/-	Productivity, Quality & Cost of Production

Cotton IPM	Kharif-24	Management of Pink boll worm AAU, Anand (2017)	Irrigated	Pvt.Hy. (Bt)	8.0	20	*Use Pheromone trap with Pectino lure(40 no./ha)* *Alternate spray of Pesticide Emamectin benzoate* 5 SG @ 5 gm/10 lit. of water *OR Indoxacarb 15.8 EC 5 ml/10 lit of water at 15 days interval starting from the pest infestation to manage pink boll worm.*	Rs.23500/-	Pest population and cost of control measures.
Cotton IPM	Kharif-24	Management of Sucking pest in Cotton AAU, Anand (2017)	Irrigated	Pvt.Hy. (Bt)	8.0	20	*Use solar yellow sticky trap @ 1/Acre* *Alternate spray of Beauveria bassiana (40 gms/10 lit. of water) and Thiamethoxam 25 WG 0.01% @ (4 g/10 lit. of water) at 15 day interval starting from the pest infestation*	Rs.20000/-	Pest population and cost of control measures.
Cotton IPM	Kharif-24	Management of Leaf spot and wilt disease in Cotton JAU,Junagadh & AAU,Anand (2021)	Irrigated	Pvt.Hy. (Bt)	8.0	20	*Alternate spray of (Fluxapyroxad 167 gm/ltr + Pyraclostrobin 333 gm/ltr) + Steptocyclin (7.5g + 0.75g/10 lit. of water) at 20 day interval starting from the disease infestation.* *Seed treatment of Trichoderma harzianum at sowing time. Drenching of carbendazim 0.2% OR copper oxy chloride 0.3% (60*	Rs.24000/-	Leaf spot and wilt disease percentage at 30,60 and 90 days after sowing Yield Of Crop Cost Of Cultivation Benefit Cost Ratio

							gm/10 lit. of water) at the time of disease infestation started.		
Vermi Composing	-	-	-	-	12	12	Vermi bed + Earthworm 2kg/ Farmers	24000/-	Secondary income from vermi compost.
Natural Farming in Wheat	Rabi-24	-	-	-	5	20	-	-	Cost of Cultivation BCR
Banana	Kharif-24	INM	Irrigated	Banana Special Fertilizer (IIHR, Bengaluru)	5.0	20	Banana Special Fertilizer *(2kg/ demo)*	Rs.12000/-	Productivity
Tomato	Kharif-24	NF	Irrigated	NF Component	2.0	10	Hyb. Seedling + NF Component	Rs.35000/-	Productivity BCR
Tomato	Kharif-24	INM	Irrigated	NPK Consortium Micr,Nutri-G-4	5.0	20	NPK Consortium Micr.Nut.G-4	Rs.25000/-	Productivity & cost of prod.
Marigold	Kharif-24	Varietal	Irrigated	Pusa bahar (IARI,Delhi-2015)	2.0	10	Seedling of Pusa bahar (1500/demo)	Rs.15000/-	Productivity & cost of prod.
Banana+ Cabbage	Kharif-24	Intercropping	Irrigated	Pvt.Co.F1 Var.	5.0	12	Inter Cropping with Cabbage(1:4)	Rs.40000/-	Pest population and cost of control measures.
Nutritional Garden	Improved varieties of vegetables	Kharif-24	100 Nos.	100	Seeds & Seedlings	15000/-	Production and cost saving.	Nutritional Garden	Improved varieties of vegetables

	Improved varieties of vegetables	Rabi-24	100 Nos.	100	Seeds & Seedlings	15000/-	Production and cost saving.		Improved varieties of vegetables
Herbal Gardening	Awareness of traditional use of herbs	Rabi-24	25 Nos.	25	Seed and Seedling	15000/-	Health care in traditional systems and cost saving	Herbal Gardening	Awareness of traditional use of herbs

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

S. No.	Date	Title of training	Venue (On/Off/ Online)	Duration (Days)	No. of participants		
					M	F	Total
A.	For PF						
	08.01.2024 11.01.2024	Nutrient Management and Weed Management in Summer Green gram.	ON	4	15	10	25
	08.04.2024 12.04.2024	Importance of Mix cropping in pigeon pea and cotton crop.	ON	4	15	10	25
	25.06.2024 28.06.2024	Weed management and Nutrient Management in Paddy Cotton, Soybean Crops	ON	4	15	10	25
	14.10.2024 17.10.2024	Post harvest management practices of cotton & Paddy Crops	ON	4	15	10	25
	23.12.2024 24.12.2024	Training on Natural Farming.	ON	4	15	10	25
A.	**For PF**						
	15.04.2024	ICM system for sustainable crop production of cotton and pigeon pea.	OFF	1	20	10	30
	29.04.2024	Role of waste decomposers in organic farming.	OFF	1	20	10	30
	13.05.2024	Water Management in hilly area	OFF	1	20	10	30
	22.05.2024	Training on Natural Farming	OFF	1	20	10	30
	21.06.2024	Nutrient Management in Paddy and Soybean crop.	OFF	1	20	10	30
	23.07.2024	INM in Cotton & Maize crop.	OFF	1	20	10	30
	28.08.2024	Weed management in Pigeon pea and Black gram	OFF	1	20	10	30
	17.09.2024	Training on Natural Farming	OFF	1	20	10	30
	21.10.2024	**Post harvest management practices in Black gram.**	**OFF**	**1**	**20**	**10**	**30**
	18.11.2024	Training on Natural Farming	OFF	1	20	10	30
B.	**For RY**						
	15-12-24 22-12-24	Natural farming in Cereal crops	ON	8	20	10	30
C	**Sponsored**						
A.	**For PF**						
	11.06.2024 14.06.2024	Healthy seedling preparation of tomato & Chili	ON	4	15	10	25
	16.07.2024 19.07.2024	Improved cultivation practices in banana	ON	4	15	10	25
	16.09.2024 19.09.2024	Precision farming of chilli and Tomato	ON	4	15	10	25
	15.10.2024 18.10.2024	Training on Natural Farming	ON	4	15	10	25
	11-12-2024 14-12-2024	Fertigation in Chili and Tomato	ON	4	15	10	25
A.	**For PF**						

	09.03.2024	Improved cultivation practices of summer okra	OFF	1	20	10	30
	08.05.2024	Use of bio fertilizers and organic manures in chili and tomato cultivation	OFF	1	20	10	30
	17.05.2024	Training on Natural Farming	OFF	1	20	10	30
	13.06.2024	Integrated crop management in papaya	OFF	1	20	10	30
	27.06.2024	Nutrient management in chilli and tomato cultivation	OFF	1	20	10	30
	14.06.2024	Training on Natural Farming	OFF	1	20	10	30
	12.07.2024	Importance of MIS and fertigation in Chilli	OFF	1	20	10	30
	13.08.2024	Additional Income generation through farm border plantation	OFF	1	20	10	30
	11.09.2024	Training on Natural Farming	OFF	1	20	10	30
	07.10.2024	Seedlings production through plug nursery for cabbage and cauliflower	OFF	1	20	10	30
A.	**For PF**						
	09.03.2024	Improved cultivation practices of summer okra	OFF	1	20	10	30
	08.05.2024	Use of bio fertilizers and organic manures in chili and tomato cultivation	OFF	1	20	10	30
	17.05.2024	Training on Natural Farming	OFF	1	20	10	30
	13.06.2024	Integrated crop management in papaya	OFF	1	20	10	30
	27.06.2024	Nutrient management in chilli and tomato cultivation	OFF	1	20	10	30
	14.06.2024	Training on Natural Farming	OFF	1	20	10	30
	12.07.2024	Importance of MIS and fertigation in Chilli	OFF	1	20	10	30
	13.08.2024	Additional Income generation through farm border plantation	OFF	1	20	10	30
B.	**For RY**						
	01-07-24 to 09-07-24	Nursery Management in horticulture crops	ON	8	20	10	30
C	**Sponsored**						
	15/16-3-24	Nursery Management	ON	3	20	10	30
A.	**For PF**						
	11.03.2024 14.03.2024	Natural Farming	ON	4	15	10	25
	02.06.2024 05.06.2024	Scientific Cultivation in Soybean	ON	4	15	10	25
	08.07.2024 11.07.2024	IPM in cotton	ON	4	15	10	25
	26.10.2024 29.10.2024	IDM and IPM in Maize	ON	4	15	10	25
	14.12.2024 17.12.2024	Natural Farming	ON	4	15	10	25
A.	**For PF**						
	04.03.2024	Preparation of biopesticides and their use in manage pest and disease	OFF	1	20	10	30
	15.04.2024	Natural Farming	OFF	1	20	10	30

	15.06.2024	Natural Farming	OFF	1	20	10	30
	28.06.2024	Pest management at seedling stage in tomato and chilli	OFF	1	20	10	30
	12.07.2024	Pest and Disease Management in soybean Crop	OFF	1	20	10	30
	17.07.2024	Management of Pink boll worm in cotton	OFF	1	20	10	30
	22.07.2024	IPM and IDM in Cotton	OFF	1	20	10	30
	06.08.2024	Use of Bio fertilizer and Bio pesticides to management of pest and disease	OFF	1	20	10	30
	18.09.2024	IDM and IPM in Pigeonpea	OFF	1	20	10	30
	15.12.2024	Important pest of Maize and their management through integrated approach (IPM)	OFF	1	20	10	30
B.	**For RY**						
	11-09-24 18-09-24	Low cost inputs production for IPM & IDM at field level	ON	8	20	10	30
C	**Sponsored**						
		Training on Natural Farming	ON	3	20	10	30
B.	**For RY**						
	11-09-24 18-09-24	Low cost inputs production for IPM & IDM at field level	ON	8	20	10	30
A.	**For FW**						
	05-06-24 08-06-24	Training on preparation of Nutritional rich Food from Millets	ON	4	0	25	25
	08-07-24 11-07-24	Importance of nutritional garden and Importance of herbal garden	ON	4	0	25	25
	21-08-24 24-08-24	Value addition in Millets	ON	4	0	25	25
	18-09-24 21-09-24	Value addition in Fruits and Vegetables.	ON	4	0	25	25
	11-12-24 14-12-24	Awareness about drudgery reduction farm tools and equipment.	ON	4	0	25	25
A.	**For FW**						
	1-5-24	Value addition in Fruits and Vegetables.	OFF	1	0	30	30
	12-6-24	Value addition in Millets	OFF	1	0	30	30
	18-7-24	House hold food & health security through nutritional and herbal garden	OFF	1	0	30	30
	17-8-24	Awareness about drudgery reducing farm tools and equipment	OFF	1	0	30	30
	14-8-24	Low Cost Nutrient diet from locally available food material.	OFF	1	0	30	30
	04-9-24	Preparation of different articles from bamboo	OFF	1	0	30	30
	11-10-24	Women and Child care	OFF	1	0	30	30
	15-11-24	Importance of Balance diet and right food habits	OFF	1	0	30	30
	18-12-24	Awareness and importance of different herbs use in day to day life.	OFF	1	0	30	30
	30-12-24	Minimization of Nutrients loss in processing.	OFF	1	0	30	30
B.	**For RY**						
	5-7-24 12-7-24	Arts and Crafts form Cow dung.	ON	15	0	30	30
A.	**For PF**						
	19.04.2024	Awareness training on different govt. scheme related to agriculture	OFF	1	20	10	30

	24.05.2024	Awareness & Use of different apps of communication media.	OFF	1	20	10	30
	21-06-2024	Training on Natural Farming	OFF	1	20	10	30
	21-07-2024	Entrepreneurship development through dairy farming	OFF	1	20	10	30
	22-08-2024	Awareness about cashless transition & Its benefits.	OFF	1	20	10	30
	19.09.2024	Training on Natural Farming	OFF	1	20	10	30
	19.10.2024	Use agril. related website for information benefits.	OFF	1	20	10	30
	19.11.2024	Awareness regarding state Govt. development schemes	OFF	1	20	10	30
	19.12.2024	**Training on Natural Farming**	**OFF**	**1**	**20**	**10**	**30**
	28.12.2024	Banking solutions for farmers & farm workers	OFF	1	20	10	30
A.	**For EF**						
	20.02.2024	Low cost net house and greenhouse	ON	3	20	10	30
	26.05.2024	Contingency Crop Planning/ oil seed cultivation	ON	3	20	10	30
	22.06.2024	Dairy Farming	ON	3	20	10	30
	02.07.2024	Training on Natural Farming	ON	3	20	10	30
	22.08.2024	Training on High tech horticulture	ON	3	20	10	30
	26.09.2024	Training on use of digital media for extension of Agril. Technologies	ON	3	20	10	30
	25.10-2024	Training on Natural Farming	ON	3	20	10	30
	22.11.2024	Dairy Farming	ON	3	20	10	30
C	**Sponsored**						
		Training on Natural Farming	ON	3	20	10	30

Major Extension Activities planned

S. No.	Major Extension Activities planned	No. of activities	Proposed date /week	Venue (On / Off / Online)	Expected No. of participants
1	Field Day	25	Year -2024	Off	515
2	Kisan Mela	2	Year -2024	On	1515
3	KisanGhosthi	5	Year -2024	Off	278
4	Exhibition	5	Year -2024	On/Off	7015
5	Film Show	50	Year -2024	On	650
6	Farmers Seminar	6	Year -2024	On/Off	365
7	Workshop	6	Year -2024	On/Off	365
8	Group meetings	60	Year -2024	On/Off	300
9	Lectures delivered	75	Year -2024	On/Off	4500
10	Newspaper	15	Year -2024	On	19000 copies
11	Radio talks	5	Year -2024	Off	-
12	TV talks	5	Year -2024	Off	-
13	Popular articles	12	Year -2024	On	-
14	Extension Literature	15	Year -2024	On	-

Action Plan for Demonstration Units at KVK

Name of the demonstration unit	Name of the product	Production target for the year 2024	Net profit expected (Rs)	Remarks if any
Nursery	**Planting Material**	**300000**	**150000**	**Vegetable seedlings & saplings of fruit plant**
Poultry	**Kadaknath & Ankleshwar**	**100 birds**	**6000**	
Goatery	**Surati**	**4 breeds**	**25000**	
Vermicompost	**Verms**	**05 kg**	**15000**	
Honey bees	**Honey**	**300 kg**	**30000**	
Natural farming unit	**Jivaamrut & Dashparni Ark etc**	**5000 lit**	**25000**	

Details of seed production and Planting Materials

S. No.	Name of the crop	Variety	Stage (Foundation / Certified)	Quantity of seed to be produced (q)
1	**Green gram**	**GAM 6 /GAM 8**	**Certified**	**12.0**
2	**Pigeon pea**	**Vaishali (BSMR-853)/ GT-106**	**Certified**	**60.0**
3	**Paddy**	**GAR-13**	**Certified**	**35.0**
		Total		**107.0 (q)**
PLANTING MATERIALS	Kagdi lime and drum stick	Kagdi lime, PKM-1,		2000
	Chilli	F1		75000
	Tomato	F1		100000
	Brinjal	F1		25000
	Cabbage	F1		75000
	Cauliflower	F1		23000
		Total		**300000 (Nos.)**

Details of activities planned under various projects running at KVKs

Programme	Names of villages selected	Activities planned in brief	No. of families to be covered
Out Scaling of Natural Farming	Sundarpura	Training, FLD & Awareness	90
CFLD oilseeds	Saidivasan,Chhodwani, Bildha, Nakhal	Training, FLD ,Field days & Awareness	150

Revolving Fund Status (Rs. In Lakh)

Financial Year	Opening Balance	Income	Expenditure	Closing Balance
2023-24	**42.17555**	**31.28743**	**24.46084**	**49.00214**
2022-23	**28.93117**	**26.97119**	**13.72681**	**42.17555**
2021-22	**15.85022**	**33.22283**	**20.14188**	**28.93117**
2020-21	**13.15224**	**16.26811**	**13.57013**	**15.85022**
2019-20	**21.44343**	**13.17193**	**21.46311**	**13.15224**

SAC Status

Year	SAC Date	Reason for non conduct of SAC (if not conducted)
2024	**13.02.2024**	NA
2023	**08.02.2023**	
2022	**04.01.2022**	
2021	**20.01.2021**	
2020	**17.01.2020**	
2019	**26.02.2019**	

Details of Budget Estimate (2024-25)

Head	Proposed estimate 2024-25	Justification for Proposed BE
(A) RECURRING		
Pay &Allowances	**200.00**	
TA	**01.00**	
Contingencies	**17.00**	
Total (A)	**218.00**	
(B) NON-RECURRING		
Works	**50.00**	**Training Hall**
Repair & Maintenance of Building	**30.00**	**Admin building /Farmer hostel & Staff quarters water proofing, colour & plastering etc.**
Equipments & Furniture	**7.00**	**Xerox Machine , Office & Hostel Furniture & other NRC**
Vehicle	**1.50**	**Two Wheeler**
Total (B)	**88.50**	
Grand Total (A + B)	**306.50**	

Chhotaudepur District / Jurisdiction Natural Farming Status

Sr.No	Name of the block	No of Gram Panchayat	Trained farmers on NF	Total No.of farmers started NF	Approx. area covered under NF (acer)
1	Chhotaudepur	44	5666	3480	2798
2	Kawant	46	5299	3532	2807
3	Jetpur Pavi	55	6184	4215	3363
4	Sankheda	49	5441	3758	2982
5	Naswadi	60	6831	4696	3725
6	Bodeli	80	8148	6000	4748
	Total	334	37569	25717	20423 (8169.2 ha)

Activity wise Physical and Financial Achievements from 01 September 2022 to 31 March 2023

Activities	No of activities	No. of participants	Amount incurred (Rs)
Training	1	20	40000
Awareness Programmes	17	688	136737
Demonstration	1	16	32000
Miscellaneous expenses at KVKs	-	-	56357
Total			256094

Activity wise Physical and Financial Achievements from 01 April 2023 to 31 March 2024

Activities	No of activities	No. of participants	Amount incurred (Rs)
Training	10	436	246413
Awareness Programmes	9	801	85350
Demonstration	1	12	47927
Miscellaneous expenses at KVKs	-	-	29419
Total			409109

Demonstrations Conducted on Natural Farming

Sr. No.	Crop	Season	Variety/ Hybrid	Area Covered (ha)	Technology demonstrated	
					Natural Farming	Non-Natural Farming
1	Wheat	Rabi-22	GW-451	6.0 ha (16 Demo)	Jeevamrit GhanJeevamrit Dashparni Ark	Varietal INM IWM
2	Wheat+ Chickpea+ Mustard	Rabi-23	GW-451	4.8 ha (12 Demo)	Jeevamrit GhanJeevamrit Dashparni Ark	Varietal INM IWM

Results of Growth Parameters

Sr. No.	Crop	Parameters	Results	
			Natural Farming	Non-Natural Farming
1	**Wheat Rabi-22**	Plant hight Test Wight Ear length	77-80 cm 4.2-4.5 gm/100 seed 5-6 cm	82-85 cm 5-5.4 gm/100 seed 7-8 cm
2	**Wheat Rabi-23**	Plant hight Test Wight Ear length	75-80 cm 4.0-4.4 gm/100 seed 7-8 cm	80-85 cm 5-5.4 gm/100 seed 8-9 cm

Results of Economic Parameters

Crops	Farming Situation	Average Yield (q/ha)	Percentage Increase in yield over Non-natural Farming (%)	Total cost of cultivation (Rs/ha)	Gross returns (Rs/ha)	Net returns (Rs/ha)	B:C ratio (Rs/ha)
Wheat Rabi-22	**Natural Farming**	**18**	**-**	**18500**	**63000**	**44500**	**3.14**
	Non-Natural Farming	**26**	**-**	**28500**	**62400**	**33900**	**2.18**
Wheat Rabi-23	**Natural Farming**	**19.5**	**-**	**19800**	**68250**	**48450**	**3.44**
	Non-Natural Farming	**26.8**	**-**	**28700**	**67000**	**38300**	**2.33**

Expenditure Details

Financial Year	Opening Balance (Rs. In Lakhs)	Fund received from ATARI Pune (Rs. In Lakhs)	Total fund available (Rs. In Lakhs)	Expenditure (Rs. In Lakhs)	Closing Balance (Rs. In Lakhs)
	A	B	C=A+B	D	E=A-D
2023-24 (01/04/23 to 31/03/2024)	0.0906	4.09200	4.10106	4.09109	0.0997
2022-23 (01/09/22 to 31/03/2023)	0	2.66000	2.66000	2.65094	0.0906