



Annual Action Plan

January to December-2023



Director of Extension Education
I/c Senior Scientist & Head
KRISHI VIGYAN KENDRA
NAVSARI AGRICULTURAL UNIVERSITY
NAVSARI-396450

ICAR-ATARI, Pune
DETAILS OF ACTION PLAN OF KVKs DURING 2023
(1st January 2023 to 31st December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra Navsari Agricultural University Eru Char Rasta Navsari-396 450, Gujarat	Office	FAX	kvknavsari@yahoo.com kvknavsari@nau.in	www.kvknavsari.in
	(02637) 282009	(02637) 282008		

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

Address	Telephone		E mail	Website address
	Office	FAX		
Directorate of Extension Education, Navsari Agricultural University, Eru Char Rasta Navsari-396 450, Gujarat	(02637) 282706	(02637) 282706	dee@nau.in	www.nau.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. N. M. Chauhan	-	9427868668	kvnknavsari@yahoo.com
			kvnknavsari@nau.in

1.4. Year of sanction: 18-03-2006

1.5. Staff Position (as on December 31, 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 scale	Basic Pay		
1.	Senior Scientist and Head	Dr.N.M. Chauhan	Ext. Edu.	131400-217100	161600	-	Permanent
2.	Subject Matter Specialist	Dr. K. A. Shah	Agronomy	68900-205500	70900	06.02.12	Permanent
3.	Subject Matter Specialist	Vacant	AH/ Fisheries	-	-	-	-
4.	Subject Matter Specialist	Dr. P. H. Nayaka	Plan Protection	68900-205500	68800	23.5.13	Permanent
5.	Subject Matter Specialist	Smt.Nital N. Patel	Home Science	57700-182400	68800	02.01.14	Permanent
6.	Subject Matter Specialist	Prof. R.A. Gurjar	Horticulture	57700-182400	68800	08.01.13	Permanent
7.	Subject Matter Specialist	Dr. S. R. Salunkhe	Ext. Edu.	57700-182400	66800	12.08.15	Permanent
8.	Programme Assistant	Pradipbhai G. Rathwa	Agronomy	38090	38090	20.08.20	Fix
9.	Computer Programmer	Mr. C. B. Naik	-	39900-12660	49000	14.08.08	Permanent
10.	Farm Manager	Mr. A. N. Lad	Soil science	39900-12660	44900	20.10.11	Permanent
11.	Accountant/ Superintendent	Hiteshbhai Patel	Senior clerk	25500-81100	39800	19.1.23	Permanent
12.	Stenographer	Vacant	-	-	-	-	-
13.	Driver 1	Vacant	-	-	-	-	-
14.	Driver 2	Shri H. Z. Chauhan	-	19900-63200	26000	23.8.07	Permanent
15.	Supporting staff 1	Vacant	-	-	-	-	-
16.	Supporting staff 2	Vacant	-	-	-	-	-

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	550 sq.m.
2.	Under Demonstration Units	-
3.	Under Crops	19.45
4.	Horticulture	-
5.	Pond	1.00 ha
6.	Others if any	-

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	30-11-08 20-7-10	550 sq.m.	---	-	-	-
2.	Farmers Hostel	ICAR		-		-	-	-
3.	Staff Quarters (6)	ICAR	2012	-	-	-	-	-
4.	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	Under RKVY Project constructed (37000 litre capacity)						
7	Threshing floor	ICAR	-	-	1.44			
8	Farm godown	ICAR	-	-	3.88			
9	ICT lab	RKVY	-	-				
10	Other							
11	Farm godown	State Plan Scheme	March-14	-	5.00 lakh			
12	Farmer's urinal	State Plan Scheme	March-17	-	5.00 lakh			
13	Block Paving	State Plan Scheme	March-17	-	2.00 lakh			
14	Seed hub godown	ICAR	March 18		35.00 lakh			
15	Fish Pond	State Plan Scheme	March-18	-	2.25 lakh			
16	Vehicle Shed	State Plan Scheme	March-18	-	3.80 lakh			
17	Road Expansion	State Plan Scheme	March-18	-	4.00 lakh			

B. Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2006	4,15,000/-	-	Good
Power tiller with all accessories	2011	1,46,475/-	-	Good
Power tiller trailer	2011	26,500/-	-	Good
Bajaj Discover	2011	49,800/-	66184	Good
Tempo Traveler	--	--	-	Good
Quails	--	--	362539	Good
Mobile soil testing Van	2008	26,30,000/-	--	Replacement is highly needed
Bolero Jeep	2020	6,86,850		Good

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

Sl.No.	Date
1. 15 th Scientific Advisory Committee	11/01/2023

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Agri - horticulture system
2.	Agri - horti- silviculture system
3.	Agri - horti- livestock production system
4.	Horti- livestock production system
5.	Horti- livestock - inland aquaculture production system

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

a. Agro-climatic Zone

Sl. No.	Agro-climatic Zone	Characteristics
1	South Gujarat Heavy Rainfall Zone	Rainfall: 2500 mm and more Type of Soil: Deep black with few patches of coastal alluvial, laterite and medium black soils. Soil Characteristics : Most of the area cultivated , some area non Cultivated under sallow and Past forest Soil fertility: Nitrogen-poor, Phosphorus medium, Potash High.

b. Agro ecological situation

S. No.	Agro ecological situation	Characteristics
1.	AES-I >1900 mm (Vansada)	Undulating, fine textured, shallow to medium depth, high to very high rainfall-rainfed, paddy, hill millet, pulses Mango zone.
2.	AES-III 1500-1900 mm (Chikhali Gandevi, Navsari)	Leveled, fine textured, deep, medium depth, rainfall-partly-irrigated, paddy, pulses, sugarcane, Mango, sapota zone
3.	AES-IV 1140-1500 mm (Costal part of Navsari, Jalalpor and Gandevi	Leveled, fine textured, deep, salt affected, low rainfall, irrigated-paddy, sugarcane- zone

2.3. Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Clay, deep	Moderately drained	Navsari
2	Clay, clay loam, moderately deep	Moderately to poorly drained, salt affected	Jalalpore
3	Clay, clay loam, deep	Moderately to poorly drained, salt affected	Gandevi
4	Clay, silty clay, shallow, loamy, deep	Well drained, undulating, erosion affected	Chikhli
5	Clay, silty, loamy, shallow	Well drained, moderate to strong undulating, erosion affected	Vansda

2.4. Area, Production and Productivity of major crops cultivated in the district (2021-22)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
Field crops				
1	Paddy	46951	128223	27.31
2	Sorghum (Rabi)	134	160	11.93
3	Black gram	225	142	6.33
4	Pigeon pea	474	342	7.22
5	Sugarcane	12800	951002	74.297
6	Gram	334	201.97	6.04
Fruit Crops				
1	Mango	33855	146932	43.40
2	Sapota	8022	75728	94.50
3	Banana	868	43790	504.50
4	Papaya	420	25284	602.00
5	Cashew Nut	342	301	0.88
6	Coconut	598	5071	8.48

Vegetable crops				
1	Onion	193	3364	174.3
2	Brinjal	2023	38862	192.1
3	Cabbage	135	3140	232.6
4	Okra	3279	41676	127.1
5	Tomato	96	2188	227.9
6	Cauliflower	125	2446	195.7
7	Cluster bean	330	3089	93.6
8	Cowpea	308	2421	78.6
9	Cucurbits	3038	53351	175.6
Flower crops				
1	Rose	105	877	83.5
2	Mary gold	732	6808	93.0
3	Spider lily	1353	13259	98.0
Spices and condiments crops				
1	Turmeric	966	19194	198.7
2	Ginger	137	2710	197.8

Source: District Agriculture & Horticulture department.

2.5. Weather data (2022)

Month	Rainfall (mm)	Temperature (⁰ C)		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January-22	0.0	29.0	13.9	88	47
February-22	0.0	31.2	13.7	94	38
March-22	0.0	37.0	19.1	78	31
April-22	0.0	36.2	22.8	92	50
May-22	0.0	34.9	26.8	85	62
June-22	164.0	33.3	25.5	91	68
July-22	995.0	29.4	24.3	96	87
August-22	527.0	30.7	24.0	93	78
September-22	660.0	31.4	23.7	96	75
October-22	74.0	33.6	21.3	87	58
November-22	0.0	33.7	16.9	82	33
December-22	0.0	32.2	16.8	86	40
Total	2420.0				

2.6. Priority thrust areas:

Thrust area	
Soil health management	Kitchen gardening
Integrated farming	Fish stocking & fish composition
Seed production	Fish culture method
Organic/Natural farming	Crop diversification
Value addition	Feed management in calf
IPDM	Disease management in animals

District level Need assessment and planning of Activities for 2023

Major crops & enterprises	Major problem identified	Identified Thrust Areas
-Paddy -Gram -Green gram -Sugarcane -Mango -Banana -Sapota -Tubers -Vegetable -Livestock -Fish	1. Injudicious use of fertilizer & pesticides 2. Lack of awareness of scientific cultivation practices of crops among Farmers and Farm women 3. Traditional calf management 4. Lack of awareness of Organic/Natural farming 5. Lack of awareness of Value addition techniques in Fruits/Vegetables 6. Drudgery among farm women during Agril. practices 7. Nutritional deficiency in animals 8. Weed infested shallow village ponds 9. Lack of knowledge about Health & Nutrition	1. Fertilizer, weed and Irrigation water mgmt. 2. Organic/ Natural farming 3. Mechanization of agricultural operations 4. Production technology 5. Value addition of fruits and vegetable 7. Women empowerment and Agri Entrepreneur development 8. IPDM 9. Soil health management 10. Water harvesting & recharge 11. Scientific calf rearing 12. Quality milk production 13. Fish culture method 14. Agriculture marketing

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
6	36	642.59	1363

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
89	2375	400	10273

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (No's)	Soil & Water Samples
(5)	(6)	(7)	(8)
561	14500	3000	300

3.1. B. Operational areas details proposed during 2023

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	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1.	Fish Farming	inefficient utilization of available water resources such as village tanks and khet talavadi and low production per unit area	232 ha.	Sultanpur, Machhad, Boriyach, Kurel, Bhula Faliya, Rahej, Khapariya, Manekpor, Kangvai, Godabari, Umarkui, Dholumber, Kakadveri, Toranvera, Pati	FLD and Training
2.	Paddy	Lack of scientific knowledge of seed treatment, use of bio fertilizer and integrated nutrient management, low yield	22500 ha.	Sultanpur, Machhad, Boriyach, Kurel, Bhula Faliya, Rahej, Khapariya, Manekpor, Kangvai, Godabari, Umarkui, Dholumber, Kakadveri, Toranvera, Pati	FLD and Training & Extension activity
3.	Pigeon pea	Lack of scientific knowledge of seed treatment, use of bio fertilizer and land configuration	567 ha.	Sultanpur, Machhad, Boriyach, Kurel, Bhula Faliya, Rahej, Khapariya, Manekpor, Kangvai, Godabari, Umarkui, Dholumber, Kakadveri, Toranvera, Pati	FLD and Training & Extension activity
4.	Chick pea	Lack of scientific knowledge of scientific cultivation & newly released recommended variety	912 ha.	Sultanpur, Machhad, Boriyach, Kurel, Bhula Faliya, Rahej, Khapariya, Manekpor, Kangvai, Godabari, Umarkui, Dholumber, Kakadveri, Toranvera, Pati	FLD and Training & Extension activity
5.	Green gram	Lack of scientific knowledge of scientific	334 ha.	Sultanpur, Machhad, Boriyach, Kurel, Bhula	FLD and Training & Extension

		cultivation & newly released recommended variety		Faliya, Rahej, Khapariya, Manekpor, Kangvai, Godabari, Umarkui, Dholumber, Kakadveri, Toranvera, Pati	activity
6.	Mango	Lack of scientific knowledge of scientific cultivation & pest complex	310 ha.	Sultanpur, Machhad, Boriyach, Kurel, Bhula Faliya, Rahej, Khapariya, Manekpor, Kangvai, Godabari, Umarkui, Dholumber, Kakadveri, Toranvera, Pati	FLD and Training & Extension activity

* Support with problem-cause and interventions diagram

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	1	0	0	0	0	0	0	0	0	1
Seed / Plant production	0	0	0	0	0	0	0	0	0	0
Weed Management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	1	1	1	0	0	0	3
Integrated Farming System	0	0	0	0	0	0	0	0	0	0
Mushroom cultivation	0	0	0	0	0	0	0	0	0	0
Drudgery reduction	0	0	0	0	0	0	0	0	0	0
Farm machineries	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	1	0	0	0	1
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0
Resource conservation technology	0	0	0	0	0	0	0	0	0	0
Biological Control	0	0	0	0	1	0	0	0	0	1
TOTAL	1	0	0	1	2	2	0	0	0	6

B. Details of On Farm Trial / Technology Assessment during 2023

OFT-1 (Horticulture) First year

Crop/Enterprise	Okra
Title of on-farm trial	Assessment of foliar spray of Novel Organic Liquid Fertilizers on yield of okra
Problem diagnosed	Farmers are not aware about use of Novel Organic Liquid Fertilizers on okra crop
Farming situation	Irrigated
Production system and thematic area	Integrated nutrient management
Farmers' practices	No use of Novel Organic Liquid Fertilizers on okra
Details of technologies selected for assessment Treatments	T1: No spray (Farmer practice) T2: 1.5% (150 ml/10 litre) NOLF spray at 30, 45 and 60 days
Source of technology	NAU, Navsari, Research accomplishment and recommendation Year 2022 Booklet (Page No 12)
No. of farmers	6
Area of each trial	0.2 ha
No of trial	6
Critical input	Novel Organic Liquid Fertilizers
Performance indicators Observation to be recorded	1) Plant height (at the end of experiment) 2) Number of fruit per plant 3) Yield per hector (at the end of experiment)
Cost of input	300 Rs / OFT
Total cost	1800 Rs (For 6 OFT)

OFT-2 (Horticulture) First year

Crop/Enterprise	Assessment of effect of Potassium Nitrate Spray (13-0-45) on yield of Sapota
Title of on-farm trial	Less flowering and fruiting size
Problem diagnosed	Irrigated
Farming situation	Integrated nutrient management
Production system and thematic area	No use of Potassium Nitrate Spray (13-00-45)
Farmers' practices	T1: No spray (Farmer practice) T2: 1 % (1 kg/ 100 liter) 13: 00: 45 spray at second fortnight of Sep., Nov.. Jan.
Details of technologies selected for assessment Treatments	NAU, Navsari, Research accomplishment and recommendation Year 2022 Booklet (Page No 12)
Source of technology	Assessment of effect of Potassium Nitrate Spray (13-0-45) on yield of Sapota
No. of farmers	6
Area of each trial	0.2 ha
No of trial	6
Critical input	Potassium Nitrate Spray (13-00-45)
Performance indicators Observation to be recorded	1) Average Fruit size (at the end of experiment) 2) Average Fruit weight (at the end of experiment) 3) Average Yield per hecter (at the end of experiment)
Cost of input	1800 Rs / OFT
Total cost	10800 Rs (For 6 OFT)

OFT-3 (Plant Protection) First year

Crop/Enterprise	Integrate management of mango leaf hoppers
Title of on-farm trial	Hopper infestation and reduction in yield
Problem diagnosed	Irrigated
Farming situation	Integrated pest management
Production system and thematic area	Spray as per agro dealer recommendation
Farmers' practices	T1: Imidacloprid 17.8 SL farmers practice T2: Entomopathogens spray (Beauveria bassiana, Verticillium lecani and Metarhizium anisoplae each 5 gm per liter spray at flower bud emergences and 15 Days after first spray)
Details of technologies selected for assessment Treatments	SAU's other state
Source of technology	Integrate management of mango leaf hoppers
No. of farmers	6
Area of each trial	0.2 ha
No of trial	6
Critical input	Bio pesticides viz., Beauveria bassiana, Verticillium lecani and metarhizium anisoplae
Performance indicators Observation to be recorded	<ul style="list-style-type: none">• Number Nymph/adults per inflorescence• Yield of each treatment
Cost of input	800/- per farmer
Total cost	4800/- (Total 6 farmer)

OFT-4 (Plant Protection) First year

Crop/Enterprise	Assessment bio pesticide to control pest complex in Brinjal
Title of on-farm trial	Indiscriminate use of chemicals, pests are resistance to pesticides
Problem diagnosed	Irrigated
Farming situation	Biological control
Production system and thematic area	Organophosphorus compounds used extensively
Farmers' practices	T1: Farmer practice (Indiscriminate use of Insecticide only) T2:Seedling root dip treatment with

	interventions Trichoderma, and Psuedomonas for 30 minutes before transplanting and spraying of Beauveria, Lecanicillium and Metarhizium. Each 5 g/lit of water at pest emergence
Details of technologies selected for assessment Treatments	AAU, Anand
Source of technology	Assessment bio pesticide to control pest complex in Brinjal
No. of farmers	6
Area of each trial	0.2 ha
No of trial	6
Critical input	Bio pesticides Viz., Trichoderma, Lecanicillium, Metarhizium. Psedomonas & Beauveria bassiana
Performance indicators Observation to be recorded	<ul style="list-style-type: none"> • No of pest (pest population) • Yield
Cost of input	Rs.500/- per (treatment) (Bio pesticide)
Total cost	Rs.3000/- (per trial)

OFT-5 (Crop Production) First year

Crop/Enterprise	Paddy
Title of on-farm trial	Assessment of newly released rice variety GR-24 (Parimal)
Problem diagnosed	Old and low production variety
Farming situation	Rainfed
Production system and thematic area	Varietal Evaluation
Farmers' practices	GR-7/IR-28
Details of technologies selected for assessment Treatments	T1:- Farmer Practices (GR-7/IR-28) T2 :- Newly released improve rice variety GR-24
Source of technology	N. A. U., Navsari (2022)
No. of farmers	6
Area of each trial	0.2 ha
No of trial	6
Critical input	Seed
Performance indicators Observation to be recorded	Plant height, panicle length and yield
Cost of input	300/- per farmer
Total cost	1800/- (Total 6 farmers)

OFT-6 (Crop Production) First year

Title of on-farm trial	Assessment of the Foliar Nutrient Application on Sugarcane
Problem diagnosed	Low yield
Farming situation	Irrigated
Production system and thematic area	Integrated Nutrient Management
Farmers' practices	Indiscriminate use of fertilizer
Details of technologies selected for assessment Treatments	F1:- Control (No spray of Nano Urea) F2:- 250:125:125 kgNPK/ha + Foliar spray of Nano urea 4 ml/lit. of water at 45, 60 and 90 DAS
Source of technology	IFFCO, Surat
No. of farmers	6
Area of each trial	0.2 ha
No of trial	6

Critical input	Nano urea
Performance indicators Observation to be recorded	Plant height & yield
Cost of input	300/- per farmer
Total cost	1800/- (Total 6 farmers)

3.3. Frontline Demonstrations

Sl. No.	Crop	Season	Purpose of demonstrated	Farming Situation	Variety	Area (ha)	No. of demonstrations	Critical Inputs Identified	Cost of critical inputs (Rs)	Parameters of observation
1	Paddy	Kharif-23	IPDM	Rainfed	Available	10	20	Pheromone trap, Trichoderma and other biopesticides	20000	Pest incidence Yield
2	Paddy	Kharif	ICM	Irrigated	GNR-7	10	50	Seed, bio fertilizer, micro nutrient	22000	Panicle length Yield
3	Paddy	Kharif	ICM	Rainfed	GR-17	5	25	Seed, bio fertilizer, micro nutrient	11000	Panicle length Yield
4	Paddy	Kharif	ICM	Rainfed	GNR-9	5	25	Seed, bio fertilizer, micro nutrient	11000	Panicle length Yield
5	Paddy	Kharif	ICM	Rainfed	GR-20	5	25	Seed, bio fertilizer, micro nutrient	11000	Panicle length Yield
6	Paddy	Kharif	ICM	Rainfed	GNR-5	5	25	Seed, bio fertilizer, micro nutrient	11000	No. of tillers/hill Yield
7	Ragi	Kharif	Nutrition management for women & Child	Rainfed	Gira	5	25	Seed	5000	Yield
8	Greengram	Summer	ICM	Irrigated	GM-6	20	100	Seed, bio fertilizer, micro nutrient	130000	Pod length, No. of seed/pod Yield

9	Pigeonpea	Kharif	ICM	Irrigated	GT-104	10	50	Seed, bio fertilizer, micro nutrient	80000	Pod length, No. of seed/pod Yield
10	Chickpea	Rabi	ICM	Rained	GG-5	20	100	Seed, bio fertilizer, micro nutrient	180000	Pod length, No. of seed/pod Yield
11	Mango	Kharif	Nutrient Management	Irrigated	Available	10	50	Novel	26,000	Yield
12	Sapota	Kharif	Nutrient Management	Irrigated	Available	10	50	Novel	26,000	Yield
13	Sapota	Rabi	Bio fertilizer	Irrigated	Available	10	100	PSB, KMB, Azto.,	20,000	Yield
14	Mango	Rabi	Bio fertilizer	Irrigated	Available	10	100	PSB, KMB, Azto.,	20,000	Yield
15	Dragon fruit	Kharif	Introduction of new crop	Irrigated	Red	0.5	6	Plant	19444	Yield
16	Dragon fruit	Kharif	Introduction of new crop	Irrigated	White	0.5	6	Plant	13875	Yield
17	Mango	Rabi	Fruit fly Control	Irrigated	Available	5	20	Nauroji trap	3500	Yield
18	Turmeric	Summer	Introduction of new variety	Irrigated	Amravati	0.13	14	Rhizomes	10,000	Yield
19	Turmeric	Summer	Introduction of new variety	Irrigated	GNT-3	0.06	7	Rhizomes	10,000	Yield
20	Little guard	Kharif	Introduction of new variety	Irrigated	GNLG-1	0.2	10	Plant	15,000	Yield
21	Pointed guard	Kharif	Introduction of new variety	Irrigated	GNPG-1	0.2	10	Plant	15,000	Yield
22	Okra	Rabi	Introduction of new variety	Irrigated	Purna Rakshak	1	20	Seed	10,000	Yield
						142.59	838			

Details of FLD on Enterprises

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Twin wheel hoe (Drudgery reduction)	Pulse crop	Rabi-23	25	25	60000 Twin wheel hoe	Labour saving per ha.
Drone technology	Sugarcane,	Rabi-	250	250	-	-

	Mango, Vegetable	summer 2023-24				
--	---------------------	-------------------	--	--	--	--

Training (Including the sponsored and FLD training programmes):

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants		
				M	F	T
Crop Production						
January-23	PF/FW	Vermi compost & composting	1 days	20	5	25
February-23	PF/FW	Scientific cultivation practices of Summer pulses crops	1 days	10	15	25
March-23	PF/FW	Different resource conversation technology to increase the production and productivity of crops	1 days	20	10	30
April-23	PF/FW	Importance of soil fertility in relation to crop production	1 days	10	25	35
May-23	PF/FW	Seed production of kharif crops	1 days	20	5	25
June-23	PF/FW	Scientific cultivation practices of kharif paddy	1 days	10	15	25
July-23	PF/FW	Different method of composting & its benefits on soil health	1 days	20	5	25
August-23	PF/FW	Importance of different agronomic practices to increase the productivity of crops	1 days	20	10	30
November-23	PF/FW	Integrated nutrient management in rabi crops	1 days	10	20	30
December-23	PF/FW	Integrated nutrient & weed management in chickpea	1 days	10	15	25
January-23	PF/FW	Scientific cultivation practices of Summer green gram	1 days	20	10	30
January-23	PF/FW	Integrated nutrient & weed management in summer pulses	1 days	20	5	25
May-23	PF/FW	Importance of seed production of different crop	1 days	20	5	25
June-23	PF/FW	Important steps for increasing the soil fertility and crop productivity	1 days	20	10	30
July-23	PF/FW	Importance of Organic farming & its benefits	1 days	20	20	40
September-23	PF/FW	Benifit of Vermi compost & composting	1 days	20	15	35
Octomber-23	PF/FW	Weed management in sugarcane crops	1 days	20	5	25

November-23	PF/FW	Importance of short duration & high value crop sweet corn	1 days	10	20	30
Horticulture						
January-23	PF/FW	Mango grafting cultivation of vine vegetables	1 days	25	5	30
February-23	PF/FW	Use of bio fertilizer in mango	1 days	25	0	25
March-23	PF/FW	Kitchen Garden	1 days	20	5	25
April-23	PF/FW	Cultivation of Vegetables	1 days	25	0	25
May-23	PF/FW	Mango processing	1 days	25	0	25
August-23	PF/FW	Cultivation of vine vegetables	1 days	25	0	25
Home Science						
February-23	PF/FW	Location specific drudgery reduction technology	1 days	0	25	25
July-23	PF/FW	Value addition of farm produce	1 days	0	30	30
August-23	PF/FW	Design and Development of High Nutrient Efficiency diet from millets	1 days	0	25	25
September-23	PF/FW	Protective food for good health	1 days	0	25	25
November-23	PF/FW	Income generation activity for women	1 days	0	25	25
November-23	PF/FW	Importance of short duration & high value crop sweet corn	1 days	10	20	30
Plant Protection						
March-23	PF/FW	Management of fruit fly in mango	1 days	25	0	25
June-23	PF/FW	Integrated pest disease management in kharif crops	1 days	20	5	25
July-23	PF/FW	Integrated pest management in paddy	1 days	10	10	20
August-23	PF/FW	Sapota pest & disease management	1 days	20	0	20
September-23	PF/FW	Bio pesticides and its uses in kitchen garden	1 days	25	5	30
Extension Education						
January-23	PF/FW	Information & communication technology	1 days	10	5	15
March-23	PF/FW	Transfer of Technology	1 days	20	5	25
July-23	PF/FW	Role of social media in agric. development	1 days	20	5	25
August-23	PF/FW	New approach of agricultural extension education	1 days	20	5	25
December-23	PF/FW	Leadership Development	1 days	20	5	25

ii) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants		
				M	F	T
Crop Production						
January-23	PF/FW	Scientific cultivation practices of Summer green gram	1 days	20	10	30
January-23	PF/FW	Integrated nutrient & weed management in summer pulses	1 days	20	5	25
May-23	PF/FW	Importance of seed production of different crop	1 days	20	5	25
June-23	PF/FW	Important steps for increasing the soil fertility and crop productivity	1 days	20	10	30
July-23	PF/FW	Importance of Organic farming & its benefits	1 days	20	20	40
September-23	PF/FW	Benefit of Vermi compost & composting	1 days	20	15	35
Octomber-23	PF/FW	Weed management in sugarcane crops	1 days	20	5	25
November-23	PF/FW	Importance of short duration & high value crop sweet corn	1 days	10	20	30
Horticulture						
June-23	PF/FW	Use of bio fertilizer in sapota	1 days	25	0	25
June-23	PF/FW	Use of bio fertilizer in mango	1 days	20	5	25
July-23	PF/FW	Kitchen Garden	1 days	10	15	25
Octomber-23	PF/FW	Cultivation of vine vegetables	1 days	25	5	30
November-23	PF/FW	Cultivation of vine vegetables	1 days	25	0	25
Home Science						
April-23	FW	Masala Preparation	1 days	0	25	25
Jun-23	FW	Value addition of fruits & vegetables	1 days	0	25	25
July-23	FW	Ragi value addition	1 days	0	30	30
July-23	FW	Importance of fruits and vegetables in daily diet	1 days	0	25	25
Augeust-23	FW	SHGs Formation & Management	1 days	0	25	25
Septmber-23	FW	Protective food for good health	1 days	0	30	30
Septmber-23	FW	Nutrition for Women & children	1 days	0	25	25
Octomber-23	FW	Use of location specific drudgery reduction technology	1 days	0	25	25

Plant Protection						
January-23	PF/FW	Preparation of Jeevamrut and other input for NF	1 days	20	5	25
January-23	PF/FW	Vermibed & Vermi Composting	1 days	20	10	30
March-23	PF/FW	Management of fruit fly in mango	1 days	25	0	25
March-23	PF/FW	Management of fruit fly in mango	1 days	25	5	30
March-23	PF/FW	Management of fruit fly in mango	1 days	25	0	25
April-23	PF/FW	Management of fruit fly in mango	1 days	25	0	25
October-23	PF/FW	Preparation of Jeevamrut and other input for NF	1 days	25	5	30
December-23	PF/FW	Preparation of Jeevamrut and other input for NF	1 days	20	5	25
Extension Education						
February-23	PF/FW	Leadership Development	1 days	20	0	20
May-23	PF/FW	Use of different mobile application	1 days	20	10	30
June-23	PF/FW	Advantages of central state govt. scheme for agricultural useful	1 days	20	10	30
September-23	PF/FW	Market channels of farmer product.	1 days	20	5	25
October-23	PF/FW	Doubling farmers of income through new university technology	1 days	20	10	30

i) Rural youth

Date	Title of the training programme	Duration in days	Number of participants		
			M	F	T
Crop Production					
September-23	Importance of soil health and its management in relation to crop production	1 days	20	10	30
Octomber-23	Scientific methods of preparation of compost & vermi compost	1 days	20	5	25
Horticulture					
June-23	Kitchen Garden	1 days	25	0	25
July-23	Use of novel, bio fertilizer, vermi compost in organic & natural farming	1 days	20	5	25
Home Science					
Octomber-23	Value addition of fruits and vegetables	1 days	0	25	25
December-23	Value addition of Tamato	1 days	0	30	30

Plant Protection					
Janaury-23	Oyster Mushroom	1 days	15	5	20
June-23	Vermibed & Vermi Composting	1 days	20	5	25
November-23	Oyster Mushroom	1 days	5	20	25
December-23	Oyster Mushroom	1 days	15	5	20
Extension Education					
December-23	Transfer of Technology	1 days	20	5	25
November-23	Leadership Development	1 days	20	0	20

iii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	No. of Participants		
				M	F	T
Home science	Value addition	Value addition of Tamato	December-23	0	30	30

iv) Training programme for extension functionaries

Date	Clientele	Title of the training programme	No. of participants		
			M	F	T
December-23	PF/FW	Scientific methods of preparation of compost & vermi compost	20	10	30
September-23	PF/FW	Kitchen garden	20	10	30
Octomber-23	PF/FW	Natural Farming	20	10	30

Additional Activities planned including sponsored projects

S. No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	ATMA	Training	2	-	All Scientist
		Guest Lecture	5	-	All Scientist
2	FTC	Training	2	-	All Scientist
		Guest Lecture	5	-	All Scientist
3	RSETI	Training	2	-	All Scientist
		Guest Lecture	2	-	All Scientist
4	Cohesion Foundation	Training	2	-	All Scientist
		Guest Lecture	2	-	All Scientist

Extension Activities (including activities of FLD programmes)

S. No.	Major Extension Activities planned	No. of activities	Proposed date /week	Venue (On / Off / Online)	Expected No. of participants
1	Field Day	10	Sep./Janu	ON/OFF	400
2	Kisan Mela	3	As Required	ON/OFF	900
3	Kisan Ghosthi	5	As Required	ON/OFF	500
4	Exhibition	5	As Required	ON/OFF	1000
5	Film Show	20	As Required	ON/OFF	600
6	Farmers Seminar	2	As Required	ON/OFF	300
7	Workshop	1	As Required	ON	133
8	Group meetings	10	As Required	ON/OFF	420
9	Lectures delivered as resource persons	15	As Required	ON/OFF	450
10	Newspaper coverage	20	As Per Need	-	
11	Radio talks	1	As Per Need	-	
12	TV talks	1	-	-	
13	Popular articles	5	As Per Need	-	
14	Extension Literature	5	As Per Need	-	-
15	Advisory Services	25	As Per Need	-	150
16	Scientific visit to farmers field	80	--	OFF	170
17	Farmers visit to KVK	125	--	ON	875
18	Diagnostic visits	20	As Per Need	OFF	30
19	Exposure visits	2	As Per Need	ON/OFF	50
20	Ex-trainees Sammelan	1	As Per Need	-	36
21	Soil health Camp	1	05/12/22	ON/OFF	24
22	Soil test campaigns	1	As Per Need	ON/OFF	29
23	Farm Science Club Conveners meet	1	As Per Need	ON/OFF	25
24	Self Help Group Conveners meetings	2	As Per Need	ON/OFF	30
25	Mahila Mandals Conveners meetings	2	As Per Need	ON/OFF	30
26	Celebration of important days	10	--	ON/OFF	711

	(specify)				
27	Krishi Mohostva	1	--	ON/OFF	200
28	Pre Kharif workshop	1	As Per Need	ON/OFF	150
29	Pre Rabi workshop	1	As Per Need	ON/OFF	150
30	Any Other (Specify)	-	--		
31	Technology week	1	--	On/Off	450
32	Telephone helpline	1	As per need	ON	1800
33	Method demonstration	22	--	ON/OFF	660
	Total	400			10273

Action Plan for Demonstration Units at KVK

Name of the demonstration unit	Name of the product	Production target for the year 2023	Net profit expected (Rs)	Remarks if any
Nursery	Paddy & Vegetables seedling	100000	60000	
Vermi compost	Vermi compost	3 ton	15000	
Water harvested unit	Roof top rain water harvested	37000 lit.	-	-

Action Plan for Instructional Farm of KVK

Total land with KVK : 5 ha Land under cultivation : 4 ha

S. No.	Name of crop	Area (ha)	Variety	Date of sowing / Planting	Date of harvest	Expected yield (q)
1	Paddy	2.00	GR-17	15 July 2023	30 October 2023	85
2	Paddy	0.5	GR-18	15 July 2023	30 October 2023	18
3	Sugarcane	0.5	13072	Crop Standing	December 2023	450
4	Chick pea	1.0	GG-5	15 November 2023	1 March 2024	8
5	Sweet corn	0.5	Sugar-75	15 November 2023	1 February 2024	40
6	Watermelon	0.5	Sugar queen	January-24	April-24	30
7	Green gram	0.5	GM-7	March-24	May-24	4

Activities of Soil and Water Testing Laboratory

Status of establishment of Lab: Yes

1. Year of establishment : 2010

2. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	100	100	45	-
Water	200	200	45	-
Plant	-	-	-	-
Total	300	300	45	-

Details of activities planned under various projects running at KVKs like NICRA/Natural Farming/NARI / TSP and others

Programme	Names of villages selected	Activities planned in brief	No. of families to be covered
NARI	-	-	-
PKVY	-	-	-
Natural Farming	15	Training, Khedut Shibir, Demonstration, Field visit,	75
TSP	-	-	-
Any other	-	-	-

Details of seed production planned under Pulses Seed Hub on Pulses

S. No.	Name of the crop	Variety	Stage (Foundation / Certified)	Quantity of seed to be produced (q)
1	Green gram	GM-6	Certified	10 *
2	Pigeon pea	GT-104/105	Certified	200
3	Chick pea	GG-5	Certified	100

Activities in respect of FPOs / FPCs and IFS model

About FPOs / FPCs

No. of new FPOs / FPCs to be formed (No. members)	No. of already formed FPOs / FPCs if any with major commodities (No. of members)	Type of support to be provided by KVK
-	2 FPO Form (600 members)	Formation of SPNF group and

	SPNF fruits & vegetables	motivated them to become unite in producing and selling of their produce and developing small scale ventures.
--	--------------------------	---

About IFS Models

Name of adopted village	No. of IFS models identified / developed	Major components and area of IFS models
Soldhara	One	Fisheries + Live stock + Poultry + Horti-Silviculture + Duckery+ Bee keeping
Bhulafaliya	One	Hoti- Silviculture+ Agriculture+ Live stock + Fisheries

Details of online activities planned if any

Sl. No.	Types of activities	No. of programme	Mode of implementation (video conferencing/Audio Conferencing/ Facebook live/Youtube live, etc)	No. of participants to be covered
1	Farmers trainings	3	Audio/video conferencing	100
2	Farmers Scientist Interaction programme	1	Audio/video conferencing	35
3	Farmers seminars	1	Audio/video conferencing	40
4	Expert lectures	1	Audio/video conferencing	50
5	Any other (Pl. Specify)	--	--	0

Drone technology

(Sub-mission on agriculture mechanization)

Sr. No	Name of project	Fund for drone (Rs in lakh)	Fund For Demo (Rs in lakh)	Target area (ha)	No. of Farmers
1	Drone technology	10.00	7.50	250	250

Annexure - II

Details of Budget Estimate (2023) based on proposed action plan

S. No.	Particulars	BE 2023 proposed (Rs.)
	Recurring Contingencies	
1.1	Pay & Allowances	150.00
1.2	Traveling allowances	1.00
1.3	Contingencies	
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	5.00
<i>B</i>	POL, repair of vehicles, tractor and equipments	1.00
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	3.00
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	1.00
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1.80
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.50
<i>G</i>	Training of extension functionaries	0.50
<i>H</i>	Maintenance of buildings	1.50
	TOTAL Recurring Contingencies	14.30
2	Non-Recurring Contingencies	
2.1	Works	10.60
2.2	Equipments including SWTL & Furniture	11.50
2.3	Vehicle (Four wheeler/Two wheeler, please specify)	1.00
2.4	Library (Purchase of assets like books & journals)	0.25

	TOTAL Non-Recurring Contingencies	23.35
3	REVOLVING FUND	-
	GRAND TOTAL	188.65