ANNUAL REPORT 2023

भाकृअनुप
ICAR

भाकृअनुप - केन्द्रीय तटीय कृषि अनुसंधान संस्थान
ICAR-Central Coastal Agricultural Research Institute

ICAR - Krishi Vigyan Kendra, North Goa

ICAR - Central Coastal Agricultural Research Institute

Old Goa (Goa) - 403 402


World Environment Day 2023
Mission LiFE


ICAR - Central Coastal Agricultural Research Institute
World Environment Day 2023
Mission LiFE
Lifestyle for Environment

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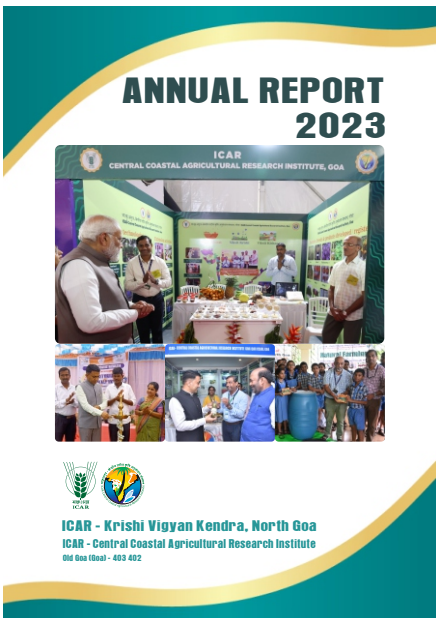

ICAR - KVK, North Goa, Annual Report 2023

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Content

ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2023
(January 2023 to December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website address
	Office	FAX		
ICAR - KVK, North Goa ICAR – CCARI Ela, Old Goa, Taluka –Tiswadi, Dist. – North Goa, Goa - 403 402	0832-2996895	-	pckvknorthgoa@gmail.com kvknorthgoa@icar.gov.in pckvk.ccari@icar.gov.in	www.kvknorthgoa.icar.gov.in (96547 hits)

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

Address	Telephone		E mail	Website address
	Office	FAX		
ICAR – Central Coastal Agricultural Research Institute Ela, Old Goa, Taluka – Tiswadi, District – North Goa , Goa – 403 402	0832-2993097	-	director.ccari@icar.gov.in	www.ccari.icar.gov.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. N. Bommayasamy	0832-2996895	9476060101	pckvknorthgoa@gmail.com

1.4. Date and Year of sanction: 1983

1.5. Staff Position (as on December, 2023)

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	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	Dr. N. Bommayasamy	9476060101	Agronomy	PB-4	9000	06-10-2023	Permanent
2.	Subject Matter Specialist	Vacant	-	Horticulture	-	-	-	-
3.	Subject Matter Specialist	Vacant	-	Agronomy	-	-	-	-
4.	Subject Matter Specialist	Mr. H.R. Chidananda Prabhu	9423057548	Plant Protection	PB-3	7600	02-09-1995	Permanent

5.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
6.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
7.	Subject Matter Specialist	Dr. Sanjaykumar Udharwar	899975149	Animal Science	PB-3	6600	02-09-2014	Permanent
8.	Programme Assistant	Mr. Shashi Vishwakarma	9164671418	Soil Science	PB-3	5400	20- 12-2010	Permanent
9.	Computer Programmer	Mr. Vishwajeet Prajapati	9689788318	Computer Science	PB-2	4600	27–12-2010	Permanent
10.	Farm Manager	Vacant	-	-	-	-	-	-
11.	Accountant / Superintendent	Mr. Vishwas Sharma	9096914202	B.E.	PB-2	4600	21-05-2012	Permanent
12.	Stenographer	Vacant	-	Stenography	-	-	-	-
13.	Driver 1	Vacant	-	-	-	-	-	-
14.	Driver 2	Mr. Dilkush Velip	9823756047	-	PB-1	2800	26-03-2012	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	2.00
2.	Under Demonstration Units	3.00
3.	Under Crops	1.00
4.	Horticulture	8.75
5.	Pond	0.50
6.	Nursery	1.00
7.	Fodder plot	1.75
8.	Under Buildings	2.00

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	2005	495	43.79	-	-	Completed
2.	Farmers Hostel	ICAR	2001	134.275	23.55	-	-	Completed
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)							
	1.Buffalo Unit	Host Institute	2006	100	08.32	-	-	Completed

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
	2. Goat Unit	Host Institute	2006	90	10.08	-	-	Completed
	3. Poultry Unit	Host Institute	2006	100	-	-	-	Completed
	4.Vermi compost Unit	Host Institute	2006	100	01.36	-	-	Completed
	5.Nursery Unit	Host Institute	2003	10000	-	-	-	Completed
	6. Roof water harvesting Unit	Host Institute	2006	761	-	-	-	Completed
	7. Polyhouse(2 nos.)	RKVY	2012	10000	19.977	-	-	Completed
	8. IATM	RKVY	2012	750	54.00	-	-	Completed
	9. VCO Production Unit	RKVY	2013		10.00	-	-	Completed
5	Fencing							
6	Rain Water harvesting system	KVK	2013	750	10.00	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	ICT lab	-	-	-	-	-	-	-
10	Other	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Hero Honda – Splendor GA-07-G-0085	2008- 09	38,000/-	28494	Needs replacement
Chevrolet Tavera GA-07-G- 0211	2010-11	6,01,500/-	293491	Condemned
Tractor with trolley	2019-20	8,93,183/-	-	Good

C) Equipment & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
SOIL SCIENCE LAB. EQUIPMENTS			
Spectro photometer	2005	48,828	Under condemnation process
Shaker (two)	2005	73,216	Good
Hot plate	2005	2,967	Under condemnation process
Flame Photometer	2012	49,992	Under condemnation process
Atomic Absorption Spectrophotometer	2012	9,96,213	Under condemnation process
Total		**11,71,216/-**	
OTHER EQUIPMENTS			
Computer	2006	46,000	Under condemnation process
Motor and pumps	2010	88,644	Good
LCD projector & Computer	2007	97,860	Under condemnation process
FAX machine	2009	15,000	Under condemnation process
Total		**2,47,504/-**	
AUDIO VISUAL AIDS			

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Slide Projector	1995	10,715	Under condemnation process
Overhead Projector	1995	12,300	Under condemnation process
Tri pod screen for slide / overhead / LCD projector	1996	4,780	Under condemnation process
Collar mike	2009	1,687	Under condemnation process
Tri pod screen (wall mounting spring loaded screen)	2009	9,225	Good
Digital Camera	2009	8,990	Under condemnation process
Digital Camera	2010	24,990	Under condemnation process
Canon IR Copier / printer	2017	96,000	Good
Total		**1,68,687/-**	
TRAINEE'S HOSTEL FURNITURE			
Beds / Cots (16)	2006	65,600	Good
Chairs (36)	2006	61,920	Good
Total		**1,27,520/-**	

1.8. Details of SAC meeting conducted in the year:

Date	Name and Designation of Participants	Salient Recommendations	Action taken
30-01-2023	1. Dr. Parveen Kumar, Director, ICAR – CCARI, Ela, Old Goa 2. Dr. Milind R. Bhirud, Chief General Manager, NABARD, Goa 3. Mr. Shivananda Wagle, Deputy Director of Agriculture Directorate of Agriculture, Goa 4. Mr. Chandrahas Desai, Managing Director, GSHCL, Goa 5. Dr. M A Bale, Manager, Goa State Co-op. Milk Producers' Union LTD, Ponda-Goa 6. Dr. Shirish S. B., Assistant Director, AH&VS, Panaji, Goa 7. Mr. Kishore Bhave, Project Director ATMA, North Goa, Goa 8. Mr. Jitendra J Bhide, Goa Bagayatdar, Ponda, Goa 9. Mr. Pratish G, Bio Diversity, Panaji, Goa 10. Mr. R. Kadam, AIR, Panaji, Goa 11. Dr. Laxman N Sawant, SMS, KVK, South Goa 12. Dr. Hrishikesh Pawar, SMS, KVK, South Goa 13. Ms. Janice Alphonso, SMS, KVK, South Goa 14. Mrs. Vismitha Marate, SMS, KVK, South Goa	To conduct FLD of Arka Rakshak variety	Arka Rakshak has been demonstrated in five farmers filed with an area of 0.5 ha
		To conduct capacity building programme on mud crab fattening to be conducted before March 2023.	Capacity building on mud crab fattening was conducted on 10th March, 2023 in collaboration with KVK - South Goa
		OFT on minor millets with finger millet as check.	OFT was converted into FLD in accordance with instruction given at the annual action plan workshop. Proso millet, Little millet and Finger millet each were demonstrated in seven farmers' field
		Demonstration on value addition of millets	Value addition in millets was demonstrated on 09-03-2023 at Surla village and 65 farm women benefited.
		Exploring the possibility of exposure visits for farmers in collaboration with ATMA – North Goa	Three exposure visits were organized in collaboration with ATMA, North Goa and visited Codar, Rasraj farms and canacona on Sept. 29, Oct. 13 and Nov. 24, 2023 in which 87 farmers and farm women participated and benefited.

	15. Smt. Kalindi Salgaonkar, Progressive Farm Women, Parra, Bardez 16. Smt. Madhavi Gawas, Progressive Farm Women, Taleigao, Tiswadi 17. Mr. Omu Gawas, Progressive Farmer, Pilar, Tiswadi 18. Mr. Manohar Mahadev Naik, Progressive Farmer, Pilar, Tiswadi 19. Mr. Deelip Narulkar, Progressive Farmer, Hassapur, Pernem 20. Dr. A. R. Desai, Pr. Scientist, ICAR – CCARI, Ela Old Goa 21. Dr. V. Arunachalam, Pr. Scientist, ICAR – CCARI, Ela Old Goa 22. Dr. R. Ramesh, Pr. Scientist, ICAR – CCARI, Ela Old Goa 23. Dr. Mathala Juliet Gupta, Sr. Scientist, ICAR – CCARI, Ela Old Goa 24. Dr. Shirish D Narnaware, Sr. Scientist, ICAR – CCARI, Ela Old Goa 25. Dr. Gokuldas PP, Sr. Scientist, ICAR – CCARI, Ela Old Goa 26. Dr. Manohara K. K. Sr. Scientist, ICAR – CCARI, Ela Old Goa 27. Dr. Gopal Mahajan, Sr. Scientist, ICAR – CCARI, Ela Old Goa 28. Dr. Susitha Rajkumar, Sr. Scientist, ICAR – CCARI, Ela Old Goa 29. Dr. Maruthadurai, Sr. Scientist, ICAR – CCARI, Ela Old Goa 30. Dr. Bappa Das, Scientist, ICAR – CCARI, Ela Old Goa 31. Dr. Sujeet Desai, Scientist, ICAR – CCARI, Ela Old Goa 32. Dr. Amiya Ranjan Sahu, Scientist, ICAR – CCARI, Ela Old Goa 33. Dr. Nibedita Nayak, Scientist, ICAR – CCARI, Ela Old Goa 34. Mr. Trivesh Mayekar, Scientist, ICAR – CCARI, Ela Old Goa 35. Dr. Uttappa A. R. Scientist, ICAR – CCARI, Ela Old Goa	Training and Demonstration on Brinjal grafting techniques with Dr. R. Ramesh, Principal Scientist, ICAR – CCARI, Goa	Training cum demonstration of brinjal grafting techniques was organized on August 25, 2023 in which 24 farmers benefited.

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. No	Farming system/enterprise
1.	Rice–Rice / Groundnut / Pulses (Cowpea , long bean) / Vegetables (brinjal, chilli, okra, amaranths, radish, cucurbits, sweet potato, knol khol, cluster bean, etc)
2.	Hill Cucurbits during Kharif
3.	Coconut mixed crop with spices (pepper, nutmeg, clove, cinnamon, ginger, turmeric) or banana
4.	Arecanut mixed crop with spices (pepper, nutmeg, clove, cinnamon)
5.	Cashew + pineapple. Mango
6.	Dairy, poultry, piggery, fishery

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

S. No.	Agro-climatic Zone (Planning Commission)	Characteristics
1	Coastal	Hillock neighboring Arabian sea

a) Topography

S. No.	Agro ecological situation	Characteristics
1	Hilly and coastal	Laterite and sandy loam soil, Average rainfall 3000 mm / annum

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Harmal	Very deep, light grey to brown sand surface soil	1.0728
2	Mandovi	Deep grayish brown to very dark grayish brown	1.027
3	Panaji	Moderately deep, light brownish grey to dark grayish brown	0.641
4	Kalangute	Deep, very dark brown to dark grey	3.654
5	Padi	Moderately deep, brown to dark yellowish brown	0.105
6	Batim	Deep yellowish brown to dark yellowish brown	8.537
7	Gudi	Deep, light yellowish brown to dark yellowish brown	2.121
8	Pali	Moderately deep, dark yellowish brown	6.996
9	Rock out crops	Builders of basal	0.161
10	Surla	Moderately deep brown to dark brown	1.686

Authentic Source (State / Central Govt): **Goa Statistics, Govt. of Goa.**

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2023)

S. No	Crop	Area (ha)	Production (000 T)	Productivity (Kg/ha)
	Major Field crops			
1	Paddy	34261 (Kharif) 17930 (Rabi)	117206881 (Kharif) 65318990 (Rabi)	34.21 (Kharif) 36.43 (Rabi)
2	Pulses	11477	11258937	9.81
3	Groundnut	3720	6997320	18.81
	Major Horticultural crops			
1	Sugarcane	1034	56027290	541.85
2	Coconuts	25545	127571730	4994 Nos.
3	Arecanuts	1677	2666430	15.90
4	Cashew nuts	55612	21966740	3.95
5	Mango	4494	18892776	42.04
6	Banana	2398	23478818	97.91
7	Vegetables	5547	56024700	101.00

Authentic Source (State / Central Govt): **Goa Statistics, Govt. of Goa.**

2.5. Weather data (2023)

Month	Normal RF(mm)	Normal Rainy days (number)	Temperature (^{0} C)		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
January	0	0	33.8	19.4	83.5	36.7
February	0	0	36.4	20.6	82.4	35.1
March	0	0	35.9	21.6	79.4	37.5
April	0	0	35.2	24.5	86.3	52.3
May	0	0	36	26.1	81.8	50
June	597	18	33	25.4	90.4	68.5
July	1763.4	31	28.6	23.8	95	88.3
August	320.2	24	30.6	24.3	91.3	75.2
September	606.3	20	30.7	31.2	94.8	77.4
October	126.2	6	33.7	23.5	92	61.2
November	96.8	4	34.7	23.7	87.3	54.2
December	0	0	34.8	22.6	75.6	41.2
Total	**3509.9**	**103**				

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

Category	Population (No)	Production	Productivity
Cattle			
Crossbred	9,604	1.00 Lakh liters (State Production of all Milk animals)	
Indigenous	27,808		
Buffalo	21,956		
Sheep			
Indigenous	116		
Goats	5,629		
Pigs	13,411		
Crossbred	895		
Indigenous	12,516		
Rabbits	744		

Category	Population (No)	Production	Productivity
Poultry			
Backyard poultry	46,703	149 million eggs (State production of all poultry birds)	95 eggs (Avg. state of all laying poultry birds)
Below 5 Months	70,576		
Layer / Boiler farm	2,26,350		
Hens	13,497		
Desi	13,623		
Improved	1,259		
Ducks	188		
Turkey and others	46		
Category		Production (Q.)	Productivity
Fish (Reservoir)			
Fish (Farm ponds)			

2.7. Details of Operational area / Villages

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Pernem Bardez Sattari	Mandre, Morjiem Assanora, Corjuem, Parra Nagargaon, Mauxi, Sancordem	Rice-cowpea, Vegetables. Coconut, Cashew, Mango. Banana. Marigold, Dairy, poultry, Piggery, Goatery. Papad making, Crafts.	**SOIL** ▪ Acidic soil ▪ Poor soil fertility & waste land (Mining rejected soil) ▪ Soil fertility degradation ▪ Soil and water erosion.	▪ Soil reclamation through amendments. ▪ Soil fertility management through INM, organic farming. ▪ Recommendation of plant nutrient on soil test based report (Soil Health Card). ▪ Conservation farming through growing cover crops and green manure crops, mulching organic waste.
			RICE ▪ Monocropping, Fallow land ▪ Salt affected soil ▪ Poor yielding varieties. ▪ Imbalanced nutrients use Pest and Disease problem	▪ Multiple cropping. ▪ Popularizing salt tolerant variety ▪ Varietal evaluation ▪ INM ▪ IPM
			CASHEW ▪ Poor yielding varieties ▪ TMB, CSRB pests ▪ Underutilization of interspaces in newly plantations ▪ Lack of value addition & processing ▪ Imbalanced nutrients use	▪ Popularizing high yielding varieties. ▪ IPM ▪ Intercropping ▪ Value addition (squash, candy crunch) ▪ INM
			COCONUT ▪ Underutilization of interspaces ▪ RPW, mite pests ▪ Post harvest losses ▪ Imbalanced nutrients use	▪ Intercropping ▪ IPM ▪ Value addition (Virgin Coconut Oil) INM
			MANGO ▪ Alternate bearing & Old plantation ▪ Imbalanced nutrients use ▪ Post harvest losses	▪ ICM of improved grafted varieties ▪ INM ▪ Value addition

Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
			VEGETABLES ▪ Low margin of profits from traditional vegetable crops/varieties & lack of diversification ▪ Lack of value addition & processing ▪ Imbalanced nutrients use ▪ Pest and Diseases ▪ Pesticide residual problem	▪ ICM of improved varieties/ High value crops/ technologies – Precision farming techniques. ▪ Value addition ▪ INM ▪ IPM & IDM ▪ Organic Farming
			ANIMALS ▪ Non availability of fodder round the year ▪ Imbalanced feed management ▪ Non descript local breeds ▪ Infertility in cattle ▪ Unhygienic milk production	▪ Hybrid Napier grasses Popularization– CO5 ▪ Scientific Feed management through capacity building ▪ Popularization of Improved breeds / cross breeds ▪ Fertility management ▪ Quality milk production
			BIRDS ▪ Non descript local breeds ▪ Poor feed management	▪ Popularization of Grampriya / Srinidhi / CARI-Nirbheek birds ▪ Balanced feeding using locally available ingredients
			OTHERS ▪ Lack of awareness ▪ Non utilization of leisure period ▪ Poor income form agriculture ▪ Small holdings ▪ Irrigation during rabi & summers ▪ High labour cost & its non availability & Drudgery in agricultural operations	▪ Awareness programmes/ capacity building ▪ Entrepreneurship development ▪ Value addition / Post harvesting, Income generating activity ▪ Intensive farming/ improvement in production/ productivity & income. ▪ Water harvesting & management ▪ Farm mechanization

2.8. Priority thrust areas:

S. No	Thrust area
1.	Varietal evaluation in paddy
2.	Varietal evaluation in brinjal
3.	Varietal evaluation in fodder variety
4.	Popularization of high yielding salt tolerant rice variety
5.	Popularization of minor millets and its value addition
6.	Popularization of kodo, proso and finger millets
7.	Popularization of sweetcorn

8.	Popularization of stem and root borer management in cashew
9.	Popularization of high yielding cashew varieties
10.	Assess the technology of nutri-hormonal therapy in crossbred dairy animals
11.	Assess the supplement of sodium bicarbonate and bypass fat in enhancing milk fat of cross bred dairy animals
12.	Popularization of cleaning milk production technology
13.	Popularization of konkan kanyal goats

3. TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
05	05	25	25	9	9	69	69

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
40	42	1200	1369	250	281	20000	30473

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

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Nil	Nil	Vermicompost – 4000	4374.5
		Earthworms – 5	5.7

3.1. B. Operational areas details 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	Intervention (OFT, FLD, Training, extension activity etc.)*
1.	Soil	• Acid / Saline soil • Poor soil health & waste land • Soil fertility degradation. • Soil and water erosion. • Mine reject soil	79908 ha of which 15-20%	Mandre, Morjiem Assanora, Corjuem, Parra, Nagargaon, Mauxi, Sancordem	Training / Demonstration
2.	Rice	• Poor yielding local varieties. • Imbalanced nutrients use	26889 ha of which 25-30%		Training / Demonstration

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.)*
		• Leaf mold in rice • Post harvest losses			
3.	Cashew	• TMB, CSRB pests • Underutilization of interspaces' in newly plantations till start of fruiting. • Lack of value addition & processing. • Old and Senile orchards	40586 ha of which 50-60%		Training / Demonstration
4.	Coconut	• Underutilization of interspaces' • RPW, mite pests • Post harvest losses. • Old and saline orchard.	11310 ha of which 60-70%		Training / Demonstration
5.	Mango	• Alternate bearing & Old plantation • Imbalanced nutrition • Post harvest losses. • Imbalanced nutrient. • Old and saline orchards. • Fruit fly • Loranthus	60-70 %		Training / Demonstration
6.	Vegetables	• Low margin of profits from traditional vegetable crops/varieties. • Lack of diversification. • Lack of value addition & processing. • Improper nutrient. • Improper management.	3360 ha of which 50-55%		FLD, Training / Demonstration
7.	Chilli	• Root rot disease • Closer spacing • Improper nutrient • Improper management • Low Yielding • Local Variety • Thrips and Viral Diseases	55-60 %		Training / Demonstration
8.	Brinjal	• Wilt disease • Use of own seed • Improper nutrient • Improper management	50-55%		OFT, Training / Demonstration

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.)*
9.	Cucurbit	• Fruit fly pest & leaf spot disease • Use of own seed • Improper nutrient • Improper management	50-55%		Training / Demonstration
10.	Onion	• Low yield local variety • Improper management • Improper nutrient management	50-55 %		Training / Demonstration
11.	Okra	• YVMV disease • Use of own seed • Improper nutrient • Improper management	50-55%		Training / Demonstration
12.	Sweet Potato	• Sweet potato weevil • Poor yielding local varieties • Improper nutrient • Improper management	50-55%		FLD, Training / Demonstration
13.	Animals	• Non availability of fodder round the year • Imbalanced nutrition • Non descript local breeds	60-65%		FLD, Training / Demonstration
14.	Birds	• Non descript local breeds • Imbalanced nutrition	50-55%		OFT, Training / Demonstration
15.	Other	• Lack of awareness • Non utilization of leisure period • Poor income from agriculture and small holdings • Irrigation during rabi & summers. • High labour cost & its non availability. • Drudgery in agricultural operations. • Post harvest loses • Lack of value addition	50-55%		FLD, Training / Demonstration

3.2. Technology Assessment (Kharif 2023, Rabi 2022-23, Summer 2023)
A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation	1				1					2
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total	1				1					2

A2. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management	2					2
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder	1					1
Small Scale income generating enterprises						
TOTAL	3					3

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation	Rice	T1 – Korgut T2 – Goa Dhan – 3 T3 – Goa Dhan – 4	05	05	0.5
	Brinjal	T1 – Agassiam T2 – Goa brinjal – 1 T3 – Goa brinjal – 2	05	05	0.5
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Mushroom cultivation					
Total			**10**	**10**	**1.0**

B. 2. Technologies assessed under Livestock & fishery assessment

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Health Management				
Dairy Management				
Nutrition management	Dairy	T1: Farmers practice (No supplements) T2 : Yeast bolus @ 2 numbers/ cattle/ day for 90 days T3 : Soda bicarbonate (45-50 gm/ day) for 90 days	7	7
Disease management	Dairy	T1 : Farmers practice (No supplements) T2 : Bypass fat and Inj.hcg (Chorulon) T3 : Only Inj. hcg (Chorulon) (1500 IU, IM)	5	5
Feed and fodder management				
Processing & Value addition				
Production and management	Dairy	T1 : Local (Boro grass) T2 : CO-5 T3 : Super Napier	3	3
Composting fish culture				
Small scale income generating enterprises				
Fish production				
Other				
Total			**15**	**15**

B.3 Technologies assessed under other enterprises

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Mushroom			
Apiary			
Vermicompost			
Tailoring			
Nutrition Garden			

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Nursery Management			
Production and Management			
Entrepreneurship development			
Energy conservation			
Storage techniques			
House hold food security			
Organic farming			
Mechanization			
Bee keeping			
Seed production			
Post-harvest management			
Other			

B 4.Technologies assessed under Women empowerment assessment

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Drudgery Reduction			
Entrepreneurship development			
Health and Nutrition			
Value addition			
Kitchen gardening			
Nutrition security			
Other			

C. 1. Results of Technologies Assessed
Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed
1	2	3	4	5	6
Rice	Rainfed	Low productivity	Assessment of High yielding salt tolerant rice variety	05	T1 – Korgut T2 – Goa Dhan – 3 T3 – Goa Dhan – 4
Brinjal	Irrigated	Wilting of plants	Assessment of Goa brinjal-1 and Goa brinjal-2	05	T1 – Agassiam T2 – Goa brinjal – 1 T3 – Goa brinjal – 2
Fodder	Rice based farming	Non-Availability of Green fodder	Assessment of fodder varieties	03	T0- Local T1- Super Napier T2-CO-5

Crop/ enterprise	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	7	8	9	10	11	12

Rice	Yield and B:C ratio	Local: Yield – 13.0 q/ha BCR – 1.47 Goa Dhan – 3: Yield – 28.7 q/ha BCR – 1.79 Goa Dhan -4 Yield – 31.8 q/ha BCR – 2.10	Goa Dhan – 4 performed better than other varieties	Farmers accepted Goa Dhan 4 for its quality and yield.	-	-
Brinjal	Yield and B:C ratio	Local: Yield – 142 q/ha BCR – 2.18 Goa Brinjal – 1: Yield – 252 q/ha BCR – 2.50 Goa Brinjal – 2: Yield – 196 q/ha BCR – 2.45	Goa Brinjal – 1 got highest yield	77.5% higher yield with lowest incidence of bacterial wilt disease index (6.04%),as compared to Local Agassaim	-	-
Fodder	Yield, BCR	Local: Yield- 64.74 t/ha BCR-1.14 CO-5 Yield- 348.6 t/ha t/ha BCR-1.93 Hybrid Super Napier Yield- 520.2 t/ha BCR- 2.27	Hybrid Super Napier yield was 520.2 t/ha per year	Hybrid Super Napier performed best with 104 t/ha yield at one cutting. In a year farmers get around 5 cuttings.	-	-

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	B:C Ratio
13	14	15	16	17	18
T1 – Korgut	Local	13.0	q/ha	16,970	1.47

T2 – Goa Dhan – 3	ICAR - CCARI, Goa	28.7	q/ha	44,500	2.03
T3 – Goa Dhan – 4	ICAR - CCARI, Goa	31.8	q/ha	51,100	2.14
T1 – Agassiam	Local	142	q/ha	1,30,440	2.18
T2 – Goa brinjal – 1	ICAR - CCARI, Goa	252	q/ha	2,26,800	2.50
T3 – Goa brinjal – 2	ICAR - CCARI, Goa	196	q/ha	1,74,400	2.45
Technology option 1 (Farmer's practice-Boro Grass)	-	064.74	t/ha	17,000	2.13
Technology option 2-CO-5	TNAU	348.00	t/ha	1,09,000	2.67
Technology option 3-Hybrid Super Napier	IGFRI-Dharwad	520.20	t/ha	1,78,100	3.17

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

OFT-1

1.	Title of Technology Assessed	Assessment of High yielding salt tolerant rice variety
2.	Problem Definition	Low productivity
3.	Details of technologies selected for assessment	T1 – Korgut T2 – Goa Dhan – 3 T3 – Goa Dhan – 4
4.	Source of technology	Local ICAR - CCARI, Goa ICAR - CCARI, Goa
5.	Production system and thematic area	Rainfed & Varietal Evaluation
6.	Performance of the Technology with performance indicators	**Local:** / **Goa Dhan – 3** / **Goa Dhan - 4** **Yield (q/ha)** 13.0 28.7 31.7 **BCR** 1.47 2.03 2.14
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Farmers accepted Goa Dhan 4 for its quality and yield.
8.	Final recommendation for micro level situation	
9.	Constraints identified and feedback for research	
10.	Process of farmers participation and their reaction	-
11.	Good Quality Photo in JPG (separate with proper caption)	

OFT-2

	Title of Technology Assessed	Assessment of Goa Brinjal-1 and Goa Brinjal-2
	Problem Definition	Wilting of plants
	Details of technologies selected for assessment	T1 – Agassiam T2 – Goa brinjal – 1 T3 – Goa brinjal – 2
	Source of technology	Local ICAR - CCARI, Goa ICAR - CCARI, Goa
	Production system and thematic area	Irrigated & Varietal Evaluation
	Performance of the Technology with performance indicators	**Local:** / **Goa Dhan – 3** / **Goa Dhan -4** **Yield (q/ha)** 142 252 196 **BCR** 2.18 2.5 2.45
	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	-
	Final recommendation for micro level situation	-
	Constraints identified and feedback for research	-
	Process of farmers participation and their reaction	-
	Good Quality Photo in JPG (separate with proper caption)	

OFT-3

1.	Title of Technology Assessed	Assessment of High yielding Fodder varieties
2.	Problem Definition	Non-Availability of Green fodder
3.	Details of technologies selected for assessment	T0- Local T1- CO-5 T2-Hybrid Super Napier
4.	Source of technology	IGFRI, Dharwad & TNAU, Coimbatore
5.	Production system and thematic area	Rice fallow, varietal evaluation
6.	Performance of the Technology with performance indicators	Local: Yield= 64.74 t/ha CO-5 : Yield= 348.6 t/ha Hybrid Super Napier Yield= 520.2 t/ha
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Hybrid Napier has the highest yield.

8.	Final recommendation for micro level situation	Assessment to be done for Next year
9.	Constraints identified and feedback for research	-
10.	Process of farmers participation and their reaction	-
11.	Good Quality Photo in JPG (separate with proper caption)	

On Farm Trials

During 2023-24, five on-farm experiments were undertaken in the adopted communities to evaluate the performance of three crop varietals viz., paddy, brinjal, and Napier grass and nutrient and disease management in dairy cattle involving 33 farmers.

1. **Salt tolerant paddy varieties** were evaluated in Khazan Land in five farmer's fields during the rainy season (July to October 2023). The results showed that paddy cultivars Goa Dhan 4 produced 342 more productive tillers/m2 than the local control, as well as significantly longer panicle length and more filled grains per panicle. Goa Dhan 4 produced more grain yield of 3.18 t/ha, which was 1.45 times higher than the local variety. Goa Dhan 4 had the highest net return and B:C ratio (Rs. 53774/- and 2.10), while Korgut had the lowest profits (Rs.16970/- and 1.47).

2. **Bacterial wilt resistant brinjal varieties:** Goa brinjal-1 and Goa brinjal 2, were compared to local varieties in five different farmer's fields in North Goa. The results revealed that resistant cultivar Goa Brinjal - 1 showed significant variation in growth and yield attributes, with the highest fruit yield of 25.2 t/ha and the lowest incidence of bacterial wilt disease index (6.04%), whereas farmers practices (Agassaim) had a higher incidence of 60-78% disease index and 14.2 t/ha.

3. **Assessment of high-yielding fodder varieties**: CO-5 and Hybrid Super Napier were compared to farmer practice (Boro grass). The results showed that the super napier hybrid had the highest tiller and green fodder yield of 520.2 t/ha, followed by CO-5 (348.6 t/ha). Farmers prefer improved high-yielding fodder varieties with higher green fodder yield, broad leaves, succulent stems, and quick regeneration capacity. The lowest fodder yield was observed in farmer practice (64.7 t/ha).

3.3. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2023 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha

B. Details of FLDs implemented during 2023 (Kharif 2023, Rabi 2022-23, Summer 2023) (Information is to be furnished in the following three tables for each category i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Rice	Varietal Evaluation	Popularization of salt tolerant rice variety Goa Dhan -1	Kharif - 2023	0.5	0.5	2	3	5	Nil
2.	Sweet Corn	Varietal Evaluation	Popularization of Sweet corn var. Golden *COB -F-1*	Rabi-2022	0.5	0.5	2	8	10	Nil
3.	Watermelon	Varietal Evaluation	Popularization of high yielding variety – *Arka Manik*	Rabi-2022	0.5	0.5	2	8	10	Nil
4.	Cashew	Integrated Pest Management	Popularization of Cashew stem and root borer management with i) Spraying the trunk with chloropyriphos @ 10ml/L ii) mechanical removal of larve	Rabi - 2022	2.0	2.0	3	7	10	Nil
5.	Millet	Varietal Evaluation	Popularization of Kodo millet var. RK 390 - 25	Kharif – 2023	1.0	1.0	2	5	7	Nil
6.	Millet	Varietal Evaluation	Popularization of Proso millet var. TNAU - 202	Kharif – 2023	1.0	1.0	2	5	7	Nil
7.	Millet	Varietal Evaluation	Popularization of Finger millet var. GPU - 67	Kharif - 2023	1.0	1.0	2	5	7	Nil

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal	No. of
				N	P	K					
Rice	Kharif - 2023	Rainfed	Lateritic	L	M	M					
Sweet Corn	Rabi-2022	Irrigated	Sandy loam	L	M	M	Paddy	12-28 Dec, 2022	March, 2023		
Watermelon	Rabi-2022	Irrigated	Sandy loam	L	M	M	Paddy	11-18 Dec, 2022	March, 2023		
Onion	Rabi-2022	Irrigated	Sandy loam	L	M	M	Paddy	11-18 Dec, 2022	April, 2023		
Cashew	Rabi-2022	Irrigated	Sandy loam	L	M	M					
Millet	Kharif – 2023	Rainfed	Lateritic	L	M	M					
Millet	Kharif – 2023	Rainfed	Lateritic	L	M	M					
Millet	Kharif – 2023	Rainfed	Lateritic	L	M	M					

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1. Rice	
2. Sweet corn	Farmers got Rs 10 to Rs. 15 per cob
3. Watermelon	Yield of *Arka Manik* was good along with its market preference. One watermelon fetched Rs. 200 to Rs. 350 depending on the size.
4. Cashew	
5. Millet	
6. Millet	
7. Millet	

Farmers' reactions on specific technologies

S. No	Feed Back
1.	
2.	
3.	
4.	

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	5	9/02/2023 24/02/2023 24/02/2023	82	
2	Farmers Training	4	8/10/2023	64	

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
			18/10/2023 29/10/2023		
3	Media coverage				
4	Training for extension functionaries				

C. Performance of Frontline demonstrations

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield
					Demo			Check	
					High	Low	Average		
Cereals									
Paddy	Low productivity	Goa Dhan - 1	05	0.5	22.1	19.8	21.1	13.3	58.89
Millets									
Kodo millet	Varietal Evaluation	RK 390-25	7	1	17	19	18	7.03	156.05
Porso millet	Varietal Evaluation	TNAU 202	7	1	8	10	9	6.84	31.58
Finger millet	Varietal Evaluation	GPU 67	7	1	20	22	21	18.6	12.90
Vegetables									
Sweet corn	Varietal Evaluation	Popularization of Sweet corn var. Golden *COB -F-1*	10	0.5	61.3	57.56	59.43	50.9	16.76
Fruit crops									
Watermelon	Varietal Evaluation	Popularization of high yielding variety *Arka Manik*	10	0.5	327.4	306.1	316.75	276.6	14.51%
Commercial Crops									
Cashew	Integrated Pest management	i)Spraying the trunk with chloropyriphos @ 10ml/L ii) Mechanical removal of larve	10	2.0	13.46	12.8	13.13	4.11	211.4

Name of the technology	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)

Name of the technology	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Goa Dhan - 1	-	-	48560	83680	35120	1.72	38280	52180	13900	1.36
RK 390-25	-	-	45000	216000	171000	4.8	42500	84400	41900	1.98
TNAU 202	-	-	25000	90000	65000	3.6	26500	68400	41900	2.58
GPU 67	-	-	23000	84000	61000	3.65	21500	68820	47320	3.20
Popularization of Sweet corn var. Golden *COB -F-1*	-	-	46700	146600	99900	3.14	46790	122100	75310	2.61
Popularization of high yielding variety *Arka Manik*	-	-	60900	208893	147933	3.43	63270	184358	121088	2.91
i)Spraying the trunk with chloropyriphos @ 10ml/L ii) Mechanical removal of larve	Pest incidence -2.61%	Pest incidence - 13.51%	73340	182450	109110	2.48	50450	72190	21740	1.43

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline Demonstration - Crops

A total of 07 Frontline demonstration were demonstrated in 56 farmers' fields, the result is manifested below

1. On **salt tolerant paddy (*var.* Goa Dhan 1)** in eight farmers field indicated an average grain and straw yield of 21.1 q/ha and 65.3 q/ha which was 58.7 % higher grain yield as compared to local check (var. Korgut) was recorded 13.3 q/ha with B:C ratio 1.36.

2. **Proso millet (*var.*TNAU 202)** has been introduced and demonstrated variety in seven farmer's field. The result revealed that it produced profuse tillering, bold grain and grain yield, and straw of 900 and 2400 kg/ha, respectively, with a net return of Rs. 72000/- ha with B:C ratio 3.6.

3. **Kodo millet (*var.* RK 390-25)** has been introduced and demonstrated in seven farmers' fields, and a grain yield of 1800 kg/ha with a net return of Rs. 17100/- was recorded with a B: C ratio of 4.8.

4. **Finger millet (*var.* GPU 67)** was demonstrated in seven farmer fields in an area of 0.1 ha per farmer. The results indicated that no of tillers/hill (11), panicle length (14) grain yield of 2100 kg/ha, and net return Rs.61000/- with a B: C ratio of 3.65.

5. **Management of Stem & Root Borer in cashew** were demonstrated in ten farmer field. The result showed that spraying of chloropyriphos @ 10ml/lit followed by mechanical removal of larvae reduced pest incidence to 2.61% and obtained the productivity of 13.1 q/ha with the B:C ratio 2.48.

6. **Sweet corn (*var.* Golden COB-F-1)** was demonstrated in five farmers' fields. The results showed an average yield of 59.4 q/ha with a B:c ratio of 3.14, which is 16.76% higher than farmers' sweet corn practice of 50.9 q/ha with a B: C ratio of 2.61.

7. A demonstration of a **high-yielding watermelon (*var.* Arka Manik)** was held in ten farmer's fields covering 0.10 ha each. The results showed that an average watermelon yield of 316 q/ha with B:C ratio 3.43 was recorded, which is 14.51% higher than the farmers' preferred variety (306.1 q/ha).

Salt tolerant paddy (*var.* Goa Dhan 1)

CSRB Management cashew

Watermelon (*var.* Arka Manik)

Finger millet (*var.* GPU 67)

Proso millet (*var.*TNAU 202)

Kodo millet (*var.* RK 390-25)

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter
					Demo	Check	
Dairy	Disease Management	Popularization of clean milk production technology in mitigating microbial stress under climate change. **Trial in progress**	10	10	-	-	-
Sheep & Goat	Breed Evaluation	Popularization of climate-resilient Konkan Kanyal goats **Trial in progress**	03	03	-	-	-

Category	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Dairy	-	-	-	-	-	-	-	-	-	-
Sheep & Goat	-	-	-	-	-	-	-	-	-	-

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Note: Remove the Enterprises/crops which have not been shown

3.4. Training Programmes (Online programmes if any should be included under On Campus category)

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl. specify)										
Total										
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	5	28	43	71	0	67	15	28	110	138
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Post Harvesting	1	1	2	3	0	0	0	1	2	3
Total	**6**	**29**	**45**	**74**	**0**	**67**	**15**	**29**	**112**	**141**
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	3	17	7	24	3	14	17	20	21	41
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**3**	**17**	**7**	**24**	**3**	**14**	**17**	**20**	**21**	**41**
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										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
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										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
Mushroom Production										
Apiculture										
Natural Farming	3	77	41	118	0	2	2	77	43	120
Total	**3**	**77**	**41**	**118**	**0**	**2**	**2**	**77**	**43**	**120**
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)	4	56	34	90	21	11	32	77	45	122
Total	**4**	**56**	**34**	**90**	**21**	**11**	**32**	**77**	**45**	**122**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**16**	**179**	**127**	**306**	**24**	**94**	**66**	**203**	**221**	**424**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	4	58	13	71	11	8	19	69	21	89
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**4**	**58**	**13**	**71**	**11**	**8**	**19**	**69**	**21**	**89**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	27	6	33	0	0	0	27	6	33
Feed & fodder technology	1	4	7	11	0	0	0	4	7	11
Production of quality animal products										
Others (pl specify)										
Total	**3**	**31**	**13**	**44**	**0**	**0**	**0**	**31**	**13**	**44**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	18	18	0	0	0	0	18	18
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**1**	**0**	**18**	**18**	**0**	**0**	**0**	**0**	**18**	**18**
VI Agril. Engineering										
Farm Machinery and its maintenance	1	23	4	27	3	8	11	26	12	38
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										
Others (pl specify)										
Total	**1**	**23**	**4**	**27**	**3**	**8**	**11**	**26**	**12**	**38**
VII Plant Protection										
Integrated Pest Management	2	20	24	44	8	12	20	28	36	64
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**2**	**20**	**24**	**44**	**8**	**12**	**20**	**28**	**36**	**64**
VIII Fisheries										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Mud crab fattening	1	33	17	50	0	0	0	33	17	50
Total	**1**	**33**	**17**	**50**	**0**	**0**	**0**	**33**	**17**	**50**
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production	2	38	21	59	7	4	11	45	25	70
Bio-fertilizer production										
Vermi-compost production	3	71	60	131	14	78	92	85	138	223
Organic manures production	2	21	19	40	0	0	0	21	19	40
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										
Mushroom Production										
Apiculture										
Natural farming	2	32	28	60	0	25	25	32	53	85
Total	**9**	**162**	**128**	**290**	**21**	**107**	**128**	**183**	**235**	**418**
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Capacity building	1	27	12	39	1	4	5	28	16	44
Total	**1**	**27**	**12**	**39**	**1**	**4**	**5**	**28**	**16**	**44**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**23**	**369**	**240**	**609**	**44**	**165**	**209**	**413**	**405**	**817**

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	4	58	13	71	11	8	19	69	21	89
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**4**	**58**	**13**	**71**	**11**	**8**	**19**	**69**	**21**	**89**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	27	6	33	0	0	0	27	6	33
Feed & fodder technology	1	4	7	11	0	0	0	4	7	11
Production of quality animal products										
Others (pl specify)										
Total	**3**	**31**	**13**	**44**	**0**	**0**	**0**	**31**	**13**	**44**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	6	28	61	89	0	67	15	28	128	156
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Post Harvesting	1	1	2	3	0	0	0	1	2	3
Total	**7**	**29**	**63**	**92**	**0**	**67**	**15**	**29**	**130**	**159**
VI Agril. Engineering										
Farm Machinery and its maintenance	1	23	4	27	3	8	11	26	12	38
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										
Others (pl specify)										
Total	**1**	**23**	**4**	**27**	**3**	**8**	**11**	**26**	**12**	**38**
VII Plant Protection										
Integrated Pest Management	5	37	31	68	11	26	37	48	57	105
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**5**	**37**	**31**	**68**	**11**	**26**	**37**	**48**	**57**	**105**
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										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Mud crab fattening	1	33	17	50	0	0	0	33	17	50
Total	**1**	**33**	**17**	**50**	**0**	**0**	**0**	**33**	**17**	**50**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production	2	38	21	59	7	4	11	45	25	70
Bio-fertilizer production										
Vermi-compost production	3	71	60	131	14	78	92	85	138	223
Organic manures production	2	21	19	40	0	0	0	21	19	40
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										
Mushroom Production										
Apiculture	4	71	32	103	9	68	77	80	100	180
Natural Farming	5	109	69	178	0	27	27	109	96	205
Total	**12**	**239**	**169**	**408**	**21**	**109**	**130**	**260**	**278**	**538**
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Capacity building	5	83	46	129	22	15	37	105	61	166
Total	**5**	**83**	**46**	**129**	**22**	**15**	**37**	**105**	**61**	**166**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**38**	**533**	**356**	**889**	**68**	**233**	**249**	**601**	**589**	**1189**

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										

Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping	3	56	21	77	9	42	51	65	63	128
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl. specify)										
TOTAL	**3**	**56**	**21**	**77**	**9**	**42**	**51**	**65**	**63**	**128**

Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										

Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping	1	15	11	26	0	26	26	15	37	52
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl. specify)										
TOTAL	**1**	**15**	**11**	**26**	**0**	**26**	**26**	**15**	**37**	**52**

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping	4	71	32	103	9	68	77	80	100	180

Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl. specify)										
TOTAL	4	71	32	103	9	68	77	80	100	180

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
CapacityBuilding and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										

Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total										

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	74	6722	68	6790
Diagnostic visits	20	302	3	305
Field Day	8	203	2	205
Kisan Ghosthi	3	60	1	61
Kisan Mela	1	2396	21	2417
Exhibition	7	4133	58	4191
Scientists' visit to farmers field	13	19	3	22
Farmers' seminar/workshop	6	616	12	628
Method Demonstrations	8	663	9	672
Celebration of important days	3	190	7	197
Special day celebration	1	97	1	98
Exposure visits	6	933	13	946
Farmers visit to KVK	17	327	3	330
Swachhta Pakhwada	2	102	1	103
Viksit Bharat Sankalp Yatra 2023	102	13405	103	13508
Total	**281**	**30168**	**305**	**30473**

Note- Advisory services includes social media, website, telephonic calls etc.

Details of other extension programmes:

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	0
Newspaper coverage	25
Popular articles	0
Radio Talks	0
TV Talks	1
Animal health camps (Number of animals treated)	0
Social Media (No. of platforms Used)	04
Others (pl. specify)	0
Total	**30**

3.6 Online activities during year 2023

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc.)	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training				
1					
	Total				
B	Farmers scientist's interaction programme				
1					
	Total				
C	Farmers seminars				
1					
	Total				
D	Expert lectures				
1					

	Total				
E	Any other (Pl. specify)				
1					
	Total				
	Grand Total (A+B+C+D+E)				

3.7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals						
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total						

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits				150		
Ornamental plants						
Medicinal and Aromatic						
Plantation				92		

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Spices						
Tuber						
Fodder crop saplings						
Forest Species				62		
Vegetables				110		
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity (Kg)	Value (Rs.)	No. of Farmers
Bio Fertilizers	Vermicompost	4374.5	87490	253
	Earthworms	5.7	2850	15
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
Total		**4380.2**	**90340**	**268**

Production of livestock materials

Particulars of Live stock	Name of the animal / bird / aquatics	Name of the breed	Type of Produce	unit (no./ lit/kg)	Quantity	Value (Rs.)	No. of Farmers
Dairy animals							
Cows							
Buffaloes	Buffalo	Godhavari	Milk	Lit	228.5	14624	0
Calves							
Others (Pl. specify)							
Poultry							
Broilers							
Layers	Bird	CARI - Devendra	Eggs	No.	6055	42385	302
	Bird	CARI - Devendra	Manure	Kg	350	1750	24
	Bird	CARI - Devendra	Birds	No.	10	1640	6
Duals (broiler and layer)							
Japanese Quail							

Particulars of Live stock	Name of the animal / bird / aquatics	**Name of the breed**	Type of Produce	unit (no./ lit/kg)	Quantity	**Value (Rs.)**	**No. of Farmers**
Turkey							
Emu							
Ducks							
Eggs							
Piggery							
Piglet							
Others (Pl.specify)							
Fisheries							
Indian carp							
Exotic carp							
Others (Pl. specify)							
Total							

Production of value added products

Crop	**Name of the product**	**Quantity Kg / Ltrs**	**Value (Rs.)**	**No. of Farmers**
Coconut	Virgin Coconut Oil	19	25018	122
	Desiccated coconut powder	5.67	567	10
Total		**-**	**25585**	**132**

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

A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):
B. Literature developed/published

Item	**Citation/ Title**	**Authors name**	**Number**
Research papers	Copro-prevalence of cryptosporidium in pigs of selected districts in West Coast of India: A preliminary study	Dr. Sanjaykumar Udharwar	1
	Development and assessment of an e-module on videography.	Dr. Monic Suresh Singh	1
	Farmer's intention regarding pesticides application in Alphonso mango.	Dr. Monic Suresh Singh	1
	Sustainable rural livelihood security through self-help groups: An impact assessment.	Dr. Monic Suresh Singh	1
	Assessment of Major Problems Faced by Coastal Farmers of India.	Dr. Monica Suresh Singh	1
	Studies on electrocardiographic changes in xylazine-butorphanol and dexmedetomidine-butorphanol premedicated goats with tiletamine-zolazepam induction and total intravenous anaesthesia (TIVA) and partial intravenous anaesthesia (PIVA) protocol.	Dr. Sanjaykumar Udharwar	1
	Comparative Evaluation of the Isoflurane-sparing Effects of Premedication with Dexmedetomidine-Butorphanol and Xylazine-Butorphanol	Dr. Sanjaykumar Udharwar	1

	in Tiletamine-Zolazepam induced anaethesia in Goats.		
	Evaluation of the pinhole castration technique in piglets compared to the traditional open castration method.	Dr. Sanjaykumar Udharwar	1
Technical reports	Annual Report, SAC Report, Action Plan document	Shri H. R. C. Prabhu & Dr. Monica Suresh Singh	3
News letters			
Technical bulletins			
Popular articles			
Extension literature			
Others (Pl. specify)			
TOTAL			**11**

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	No of events (uploaded video/post/story etc.	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel (no of video uploaded)	**3**	**@icar-kvknorthgoa8549**	**630**
2	Facebook page/ Account (no of Post)	**205**	**northgoakvk**	**340**
3	Mobile Apps	**-**	**-**	**-**
4	WhatsApp groups	**-**	**DAMU, Beekeeping, coconut friends, organic farming, Anjuna Soil Mark, etc.**	**9500**
5	Twitter Account	**205**	**KNorthgoa**	**15**
6	Any other (Pl. Specify)			

E. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

The Broad outline for the case study may be

Title

Background

Interventions

- Process
- Technology

Impact

- Horizontal Spread
- Economic gains
- Employment Generation

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

G. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

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

A. Practicing Farmers

a)

B. Rural Youth

a)

C. In-service personnel

a)

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 farmers 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

A. Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Exhibitions / trainings, Meetings
Goa Dairy	Animal Health Camps, Meetings
Department Of AHVS	Animal Health Camps, Meetings
SAMETI	Trainings
Goa College of Home Science, Panaji	Training
Goa Chamber of Commerce and Industry, Panaji	Training
All India women's Conference	Training
Green Growth Institute, Sangolda	Training & Demonstration
CPCRI, Kasargod	Training, Workshop and Meeting
Directorate of Agriculture, Govt. of Goa	Training, NHM, RKVY, Diagnostic visits, Lectures, Roving survey
All India Radio	Agriculture Information Programme
Almeida High School, Ponda	Training
G.V.M College, Ponda	Training
Dempe College, Panaji	Training
Botanical Society of Goa	Fruit Festival
Goa Science Centre, Panaji	Agriculture Exhibition
Forest Department, Govt. of Goa	Training
Goa State Bio Diversity Board, Panaji	Training, Workshop and Meeting
Regional Cum Facilitation Centre, National Medicinal Plant Board, Ministry of AYUSH, Pune.	Training

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency(State Govt./Other Agencies)	Amount (Rs.)

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No
If yes, role of KVK in preparation of SREP of the district?

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	No of Farmers attending
01	**Meetings**	**3**	**3**	**0**	**-**
02	**Research projects**				
03	**Training programmes**				
04	**Demonstrations**				
05	**Extension Programmes**				
	KisanMela				
	Technology Week				
	Exposure visit	**3**	**3**	**0**	**87**
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
06	**Publications**				
	Video Films				
	Books				
	Book chapter				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (Pl.specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

E. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

H. Details of linkage with NFSM (CFLD)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

I. Details of linkage with SMAF (Sub-mission on Agroforestry)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

7. Convergence with other agencies and departments:

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

8. Innovative Farmers Meet

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	Yes/ No
	Brief report in this regard	

9. Farmers Field School (FFS)

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Expenditure	Brief report

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

11. Technology Week celebration during 2023: Yes/No, If Yes

Period of observing Technology Week: From to
Online / Offline:
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized			
Exhibition			
Film show			
Fair			
Farm Visit			

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Diagnostic Practical's			
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week			

12. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries

B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No. of participants
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No. of farmers
Total			

E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

State	Crops	Quantity (qtl)	Coverage of area (ha)	No. of farmers
Total				

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	No. of farmers
Total			

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Total												

13. IMPACT

A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Management of Stem and root borer in cashew	12	85	21,880/-	1,03,800/-
Production of Virgin Coconut Oil	53	58	-	20450/- per month
Popularization of Vermicomposting	130	86	10100/-	24500/-
Value addition in Jackfruit	41	65	1,200/-	2,800/- per day
Popularization of Mushroom Cultivation	21	63	700/-	3,400/-
Popularization of Beekeeping	33	47	-	4,600/-
Popularization of Fodder Varieties CO-5 (Hybrid Napier)	35	96	680/-	39,500/-
Feeding of Bypass fat	25	87	30500/-	39400/-
Mastitis control measures in cattle	41	98	26300/-	32200/-

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

B. Cases of large scale adoption

(Please furnish detailed information for each case)

S. No	Crop / Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha / No. of Units
1	Cashew	IPM	Management of Cashew Stem and Root Borer	Method Demonstration, Capacity building programme, Awareness programme	113	1458	856
2	Dairy	Nutrition Management	Popularization of Bypass Fat Technology	Method Demonstration, Capacity building programme, Awareness programme	132	661	618
3	Coconut	Value addition	Popularization of VCO Production technology	Method Demonstration, Capacity building programme, Awareness programme	15	189	03 - Commercial, 05 Home scale

C. Details of impact analysis of KVK activities carried out during the reporting period

14. Kisan Mobile Advisory Services : ***Advisory shared through Whatsapp group and social media.***

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2023	-	-	-
Feb 2023	-	-	-
March 2023	-	-	-
April 2023	-	-	-
May 2023	-	-	-
Jun 2023	-	-	-
Jul 2023	-	-	-
Aug 2023	-	-	-
Sept 2023	-	-	-
Oct 2023	-	-	-
Nov. 2023	-	-	-
Dec. 2023	-	-	-

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
North Goa	Text only							
	Voice only							
	Voice & Text both							
	Total Messages							
	Total farmers Benefitted							

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

Sl. No.	Bio Products	Name of the Product	Qty (kg/lit)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
1.	Bio- Fertilizers					
2.	Bio- Fungicides					
3.	Bio- pesticides					
4.	Bio-Agents					

D. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall(if any)
January **2023**	31	57	-
February **2023**	11	39	-
March **2023**	7	17	-
April **2023**	6	17	-
May **2023**	14	48	-
June **2023**	8	32	-
July **2023**	9	18	-
August **2023**	7	18	-
September **2023**	15	31	-
October **2023**	14	35	-
November **2023**	44	67	-
December **2023**	9	37	-

F. Database management

S. No	Database target	Database created

G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in ' 000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		

H. Performance of Nutritional Garden at KVK farm

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

If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
	Vegetable crops		
	Fruit crops		
	Others if any		

Nutritional Garden developed at Village Level (Area under nutritional garden)

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
	Vegetable crops		
	Fruit crops		
	Others if any		

H. Details of Skill Development Trainings organized

S. No.	Name of KVKs/SAUs/ICAR Institutes	Name of QP/Job role	Duration (hrs)	No. of participants					
				SCs/STs		Others		Total	
				Male	Female	Male	Female	Male	Female

17. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	Canara Bank	Old Goa	000321	ICAR Research Complex for Goa	0321201000277	403015014	CNRB0000321
With KVK	Canara Bank	Old Goa	000321	ICAR Research Complex for Goa	0321201000277	403015014	CNRB0000321

B. Utilization of KVK funds during the year 2023-24 (Rs. in lakh) (Till Dec, 2023)

Opening balance as on 01-04-2023 Rs. 17.83236 lakhs

S. No.	Particulars	Sanctioned	Released	Expenditure
1	**Recurring Contingencies**			
1.1	**Pay & Allowances**	**115**	**91.12937**	**99.069944**
1.2	**Traveling allowances**	**2**	**1.21948**	**0.46876**
2	**General**			
2.1	Office Contingencies	6	4	4.24617
2.2	Technical Programme	5	3.75	0.23500
2.3	Office Contingencies (TSP)	1	1	0.10556
2.4	Technical Programme (TSP)	2	2	0.90000
	Total General	**14**	**10.75**	**5.48673**
3	**Capital**			
3.1	Vehicle	9	9	0
	Total Capital	**9**	**9**	**0**
4	**GRAND TOTAL (A+B+C)**	**140**	**112.12885**	**105.02493**

C. Status of revolving fund (Rs. in lakh) for the Four years : No Revolving funds

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2018 to March 2019				
April 2019 to March 2020				
April 2020 to March 2021				

April 2021 to March, 2022				
April 2022 to March 2023				
April 2023 to March 2024				

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Offline)	Dates
Shri Rahul Kulkarni	Assistant Chief Technical Officer (Soil Science)	RPC training	RPTO, MPKV, Rahuri	Offline	28-31 May, 2023
Shri Vishwajeet Prajapati	Technical Officer (Computer)	RPC training	RPTO, MPKV, Rahuri	Offline	27-30 April, 2023
Shri Vishwajeet Prajapati	Technical Officer (Computer)	Drone Bootcamp	IIT Goa, Farmgudi	Offline	13-18 September, 2023

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

Name of the village	Total No. of families surveyed	Key interventions implemented	No. of farmers covered in each intervention	Change in income (Rs/unit)	
				Before (base year)	After (current year)

19. Details of activities planned under NARI /PKVY / TSP / KKA, etc.

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered

20. Details of Progress of ARYA Project

Name of Enterprise	No of Training Conducted	No of Beneficiaries	No of Extension Activities	No of Beneficiaries	No of Unit established	Change in income		No. Of Groups Formed
						Before	After	

A. Details of SAP

S. No.	*Types of major Activity conducted- Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.*	*No. of Programmes conducted*	*No. of Participants*
1	*Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.*	45	566

Sr. No	Name of KVK	Date	*Activity*	No of VIPs	No of Farmers	Others	Total
1.	KVK, North Goa	25-09-2023	Displayed banners at prominent places of this Institute. Administered Swachhta Pledge to all the Staff members/Officials. Cleaning and sweeping the respective Sections, Laboratories, Corridors and the entire campus of the Institute was organized at this Institute	-	-	65	65
2.	KVK, North Goa	26-09-2023	Cleaning of Surrounding areas of the Institute (Farm A outside) and Cleaning the areas around the Karmali Railway Station	-	-	18	18
3.	KVK, North Goa	27-09-2023	Cleaning near the Tourist place i.e Gandhi Circle, Old Goa and Cleaning near the ASI Monuments/ heritage sites: Cleaning surrounding areas of Bom Jesus Basilica Church at Old Goa	-	-	65	65
4.	KVK, North Goa	29-09-2023	Cleaning the area outside the campus on National Highway 748	-	-	26	26
5.	KVK, North Goa	29-09-2023	Prize Distribution of painting Competition at Old Goa Education Institute, Goa and a walkathon during Swachhata Pakhwada from the Institute Campus to Old Goa and back	-	-	38	38
6.	KVK, North Goa	03-10-2023	Administered Swachhta Pledge to all the Staff members/Officials	-	-	48	48
7.	KVK, North Goa	04-10-2023	Cleaning and weeding of Sports Ground area	-	-	13	13
8.	KVK, North Goa	05-10-2023	Weeding of physical files - Administration section	-	-	12	12
9.	KVK, North Goa	06-10-2023	Cleanliness in the laboratories was carried out	-	-	32	32
10.	KVK, North Goa	09-10-2023	Cleaning of offices, Laboratories and corridors in the main building by the respective Officials	-	-	46	46
11.	KVK, North Goa	08-10-2023	Weeding of physical files - Administration section	-	-	15	15
12.	KVK, North Goa	11-10-2023	Cleaning of estate section and identification of scrap for disposal was carried out o	-	-	14	14
13.	KVK, North Goa	12-10-2023	Cleaning of electrical section and identification of scrap for disposal was carried out	-	-	8	8
14.	KVK, North Goa	13-10-2023	Cleaning the signboards in the Institute campus was carried out	-	-	22	22

Sr. No	Name of KVK	Date	*Activity*	No of VIPs	No of Farmers	Others	Total
15.	KVK, North Goa	16, 17, & 18-10-2023	Cleaning outside of the boundary walls of the Institute in Collaboration with the local Panchayat was carried out	-	-	34	34
16.	KVK, North Goa	19-10-2023	Tree plantation drive was carried out in the Farm C of this Institute	-	-	60	60
17.	KVK, North Goa	20-10-2023	Checking and repairing the water leakages and flush systems in Block A, B, and C of this Institute was carried out	-	-	10	10
18.	KVK, North Goa	25-10-2023	Cleaning, weeding & removal of plastic from the Residential Quarters area of this Institute was carried out	-	-	18	18
19.	KVK, North Goa	26-10-2023	Cleaning of the area in front of the Labour Shed and Fishery wet Lab area was done	-	-	8	8
20.	KVK, North Goa	27-10-2023	Updating and painting of the field boards on the Institute Campus was done	-	-	16	16
21.	KVK, North Goa	30-10-2023	450 m2 space area was freed and 1125 kg of identified scraps was disposed of by the duly constituted committee. The revenue generated from scrap disposal was Rs. 28,600/- (Rupees Twenty Eight thousand Six Hundred only) was done	-	-	14	14
22.	KVK, North Goa	31-10-2023	Participatory cleaning of the Residential Quarters area was undertaken under the campaign was done	-	-	68	68
23.	KVK, North Goa	16-12-2023	• Banners were displayed at the Office gate and KVK gate • Swachhta Pledge was administered to the Officials/ Staff members • Stock taking & briefing of the activities was organized during the pakhwada was undertaken • Plantation of Trees was undertaken at this Institute Digitization of Office records: All the Officials/Staff members use e-Office for day to day Office work.	-	-	73	73
24.	KVK, North Goa	17-12-2023	• Cleanliness drive was undertaken in Administration cum laboratory building of the Institute • Weeding of physical files was carried out with the help of duly constituted weeding committee. In total 05 files were weeded out from accounts section	-	-	25	25

Sr. No	Name of KVK	Date	*Activity*	No of VIPs	No of Farmers	Others	Total
25.	KVK, North Goa	18-12-2023	• Institute staff explained and raised awareness to the general public of the Karmali Railway Station, Goa on keeping the station clean, removal of dirt and dust, protecting the environment and local resources, and ways to reduce the harmful effects of inadequate sanitation practices to improve health, hygiene and sustainable development • Cleaning and sanitation awareness campaign was undertaken to promote Swachhta in Karmali village, Goa. KVK and Institute staff educated villagers on household and community hygiene and sanitation, including waste disposal, hand washing, and water storage	-	12	16	28
26.	KVK, North Goa	19-12-2023	• Cleaning/Sanitation drive was undertaken in the campus area in Block A, B & C of the Institute	-	-	13	13
27.	KVK, North Goa	19-12-2023	• Residents of staff quarters and Old Goa villagers were advised to keep separate containers for dry and wet waste in the kitchen and drop them into the waste bin. Residents were also advised to sort and separate waste types to facilitate recycling and correct disposal methods like composting and vermicomposting. Vermicomposting was also demonstrated to all the participants	-	16	19	35
28.	KVK, North Goa	20-12-2023	• Competition on waste to wealth was conducted to the children of Institute employees in the residential quarter's garden	-	-	17	17
29.	KVK, North Goa	21-12-2023	• Kisan Diwas was celebrated in Gomantak Goushala, Mayem Goa	3	35	10	48
30.	KVK, North Goa	22-12-2023	• Swachhata awareness campaign was carried out in Nagali village, Tiswadi Taluka, Goa 0n 24-12-2023. Every villager was urged to actively	-	22	02	24

Sr. No	Name of KVK	Date	*Activity*	No of VIPs	No of Farmers	Others	Total
			take part in the Swachhata Mission to Clean India in order to realize the aspiration of our Nation's Father for the preservation of the environment for our safety and the protection of our future				
31.	KVK, North Goa	25-12-2023	• Swacchhta cleaning drive was conducted at Old Goa market and surrounding area	-	-	18	18
32.	KVK, North Goa	26-12-2023	• Under the Campaign "Swachhta Pakhwada" a drawing competition for school children of Old Goa and Carambolim village	-	-	5	5
33.	KVK, North Goa	27-12-2023	• Rally of staff members with play cards on curb the use of Single Use Plastic (SUP) in the Old Goa village	-	-	73	73
	Total			**3**	**57**	**108**	**168**

21. Books published 2023-24

Title of the Book	Authors	ISBN No	Publisher	Pages No	Description/review of the book (one paragraph/sentence)

22.. Please include any other important and relevant information which has not been reflected above (write in detail).

Awards and Recognitions

Sr. No.	Name of the Scientist/Farmer*	Name of the Award/ Recognitions	Awarding Agency	Conferred on
1.	Shri Deelip Narulkar*	District Millionaire Farmer of India	Krishi Jagran Media Group	06.12.2023
2.	Nayakwadi Shivasharappa, Joshi Samruddhi Prasad, Kumar Susitha Rajkumar, H. B., Bathini Jagriti and **Udharwar Sanjaykumar V.**	IAVP-Dr C.M. Singh Memorial Award (Best Research Article' for the year 2022) for the article titled "Lumpy skin disease: pathomorphological features and molecular detection in dairy cattle of West Coastal India.	Indian Association of Veterinary Pathologists at IVRI, Bareilly	
3.	Udharwar Sanjaykumar V.	**Best presentation award** during 1st National Seminar organized (online)	Society of Krishi Vigyan	27&28.10.2023
4.	Dr.Udharwar S.V., Dr. N. Shivasharanappa and Dr. Santosh Desai	Accepted as Co-Applicant in Shweta Kapila Cattle Breed registration	NBAGR, Karnal	05.12.2023

5.	Shri H. R. Chidananda Prabhu	Director Appreciation Award	ICAR – CCARI, Goa,	15.08.2023
6.	Shri Shashi Vishwakarma	Best Worker Award	ICAR – CCARI, Goa,	01.04.2023
7.	Dr. Monica Suresh Singh	Best Team Award	ICAR – CCARI, Goa,	01.04.2023
8.	Shri Rahul Kulkarni	Best Team Award	ICAR – CCARI, Goa,	01.04.2023
9.	Shri Vishwajeet Prajapati	Best Team Award	ICAR – CCARI, Goa,	01.04.2023

External funded research projects

Title of the project	Funding agency	Duration		PI/CO-PI	Budgets (In Lakhs)
		From	To		
TDC-National Innovations in climate Resilient Agriculture	ICAR-CRIDA	20.12.2021	31.03.2025	**Monika Suresh Singh, N.Bommayasamy***, Sanjaykumar Udharwar	25.87
Out scaling of Natural Farming through KVKs	ICAR, New Delhi	04.10.2022	31.03.2025	**Monika Suresh Singh, N.Bommayasamy***, Rahul Kulkarni	10.65
Agri drone under sub mission on agricultural mechanization	ICAR, New Delhi	31.03.2022	31.03.2024	**Monika Suresh Singh, N.Bommayasamy***, Rahul Kulkarni, Vishwajeet Prajapati	36.2
District Agro Met Advisory	IMD, New Delhi	2018	31.03.2024	**Bappa Das, HRC Prabhu**	58.10697

*03.11.2023 onwards

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	38	601	589	1189
Rural youths	04	80	100	180
Extension functionaries				
Sponsored Training				
Vocational Training				
Total	**42**	**681**	**689**	**1369**

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	05	0.5	
Pulses	21	3.0	
Cereals	10	0.5	
Vegetables	10	0.5	
Other crops	10	2.0	
Hybrid crops			
Total	**56**	**6.5**	
Livestock & Fisheries	13		13
Other enterprises			
Total	**13**		**13**
Grand Total	**69**	**3.5**	**13**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	02	10	10
Livestock	03	15	15
Various enterprises			
Total	**05**	**25**	**25**
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**05**	**25**	**25**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	281	**30473**
Other extension activities	30	
Total	311	

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only							
	Voice only							
	Voice & Text both							
	Total Messages							
	Total farmers Benefitted							

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)		
Planting material (No.)		
Bio-Products (kg)	43.745	87490
Livestock Production (No.)	6055	42385
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	559	0
Water	2	0
Plant	10	0
Total	**571**	**0**

8. HRD and Publications

Sr. No.	Category	Number
1	Abstract	
2	Workshops	
3	Conferences	
4	Meetings	3
5	Trainings for KVK officials	3
6	Visits of KVK officials	33
7	Book published	
8	Training Manual	
9	Book chapters	
10	Booklet	
11	Leaflets/ Folder/ Pamphlet	
12	Research papers	8
13	Technical Bulletin	
14	Popular article	
15	Lead papers	
16	Seminar papers	
17	Extension folder	
18	Proceedings	1
19	Award & recognition	9
20	On-going research projects	4
21	Other	

Glimpses of KVK activities

Nano Fertilizer Spray Demonstration at Batim

25th Scientific Advisory Committee (SAC) Meeting

Value Addition Programme of Millets under STC

Value Addition Programme of Millets with Goa College of Home Science

Distribution of inputs under STC

Millet Awareness Exhibition at Panaji

Celebrated Internation Women's Day

Training on Natural Farming

Exhibition at Bethoda, Ponda

Cashew Fest 2023

Exhibition at Science film festival

Magic of Millet

Capacity building programme for the Board of Directors of FPOs

Kisan Sanman Sammelan

Exhibition at Krishi Mohatsav 2023

Celebrated World Bee Day

Awareness programme on drone demonstration

Promotion of climate resilient crops under Mission LiFE

Ideation Hackathon on Composting & Biogas production under Mission LiFE

Awareness programme on rain water harvesting Under Mission LiFE

Celebrated World Environment Day

Celebrated International Day of Yoga

Awareness programme on ICAR-CCARI technologies

Workshop on Natural Farming at Pissurlem

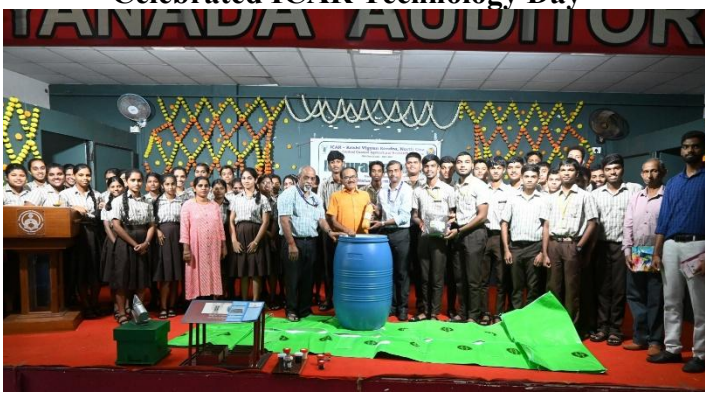
Workshop on Natural Farming at Sanquleim

Training cum workshop on Nutritional recipes of Millets

Visit of Hon'ble' MLA Mr. Carlos Alvares

Celebrated ICAR Technology Day

Training on Vermicomposting and Natural farming

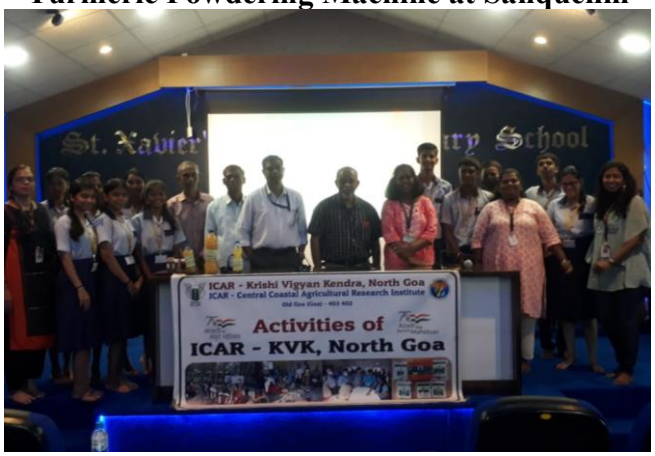


Awareness programme on Vermicompost and Natural farming

Training Programme on Natural Farming

Inauguration of Rice Dehusking Machine and Turmeric Powdering Machine at Sanquelim

Visit of Dr.Neelam Patel, Senior Advisor, NITI Aayog



Awareness programme on Beekeeping, Millets and Natural farming

NICRA Annual Review Workshop 2023

Vision Goa – A Mega Exhibition

Get together of Public Representatives

Celebrated World Food Day

Capacity building programme and Distribution of Apiculture inputs to Tribal farmers

Celebrated Kisan Diwas

Celebrated Swachhata Pakwada

Webinar organized during Swachhata Pakwada