

Annual Report 2018-19



ICAR - Krishi Vigyan Kendra, North Goa
ICAR - Central Coastal Agricultural Research Institute
Old Goa (Goa) - 403 402

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ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2018-19
(1st April 2018 to 31st March 2019)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
	Office	FAX		
Krishi Vigyan Kendra ICAR – Central Coastal Agricultural Research Institute Ela, Old Goa, Taluka – Tiswadi, Dist. – North Goa, Goa - 403 402	08322285475	08322285475	pckvknorthgoa@gmail.com kvknorthgoa@icar.gov.in pckvk.ccari@icar.gov.in	www.kvknorthgoa.icar.gov.in (53538 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	08322284677	08322285649	Director.ccari@icar.gov.in	www.ccari.res.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Shri H. R. C. Prabhu, PC I/C , SMS (Plant Protection)	08322284636	9423057548	pckvknorthgoa@gmail.com

1.4. Year of sanction:

1.5. Staff Position (as on March 31, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Level	Current Index		
1.	Senior Scientist and Head	Vacant	-	-	-	-	-
2.	Subject Matter Specialist	Vacant	Horticulture	-	-	-	-
3.	Subject Matter Specialist	Vacant	Agronomy	-	-	-	-
4.	Subject Matter Specialist	Mr.H.R.Chidananda Prabhu	Plant Protection	12	14	02-09-1995	Permanent
5.	Subject Matter Specialist	Mrs. Sunetra M.Talaulikar	Home Science	12	15	26-12-1987	Permanent
6.	Subject Matter Specialist	Dr. Monica Singh	Agril. Extension	11	2	18-03-2019	Permanent
7.	Subject Matter Specialist	Dr. Sanjaykumar Udharwar	Animal Science	10	8	02-09-2014	Permanent
8.	Programme Assistant	Mr. Shashi Vishwakarma	Soil Science	7	4	20- 12-2010	Permanent
9.	Computer Programmer	Mr. Vishwajeet Prajapati	Computers	7	4	27-12-2010	Permanent
10.	Farm Manager	Vacant	Horticulture	-	-	-	-
11.	Accountant/Superintendent	Mr. Vishwas Sharma	B.E.	6	7	21-05-2012	Permanent
12.	Stenographer	Mrs. Shreya Barve	Stenography	4	9	20-12-2011	Permanent
13.	Driver 1	Mr.Irappa Chalwadi	-	6	13	29-06-1994	Permanent
14.	Driver 2	Mr. Dilkush Velip	-	4	4	26-03-2012	Permanent
15.	Supporting staff 1	Mr.Payak Jorgo Padkar	-	2	12	26-07-2007	Permanent
16.	Supporting staff 2	Ms. Sarita Zore	-	1	6	17-01-2014	Permanent

1.6. Total land with KVK (in ha) : 18 ha

S. No.	Item	Area (ha)
1.	Under Buildings	1
2.	Under Demonstration Units	1
3.	Under Crops	5
4.	Horticulture	9.5
5.	Pond	0.5
6.	Others if any	1

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
	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. Run	Present status
Hero Honda - Splendor GA-07-G-0085	March, 2009	38,000	26114	Good
Chevrolet Tavera GA-07-G- 0211	May, 2010	5,81,537	189016	Good

C) Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
SOIL SCIENCE LAB.EQUIPMENTS			
Spectro photometer	2005	48,828	To be replaced
pH meter	2005	14,500	To be condemned
Conductivity bridge	2005	11,284	To be condemned
Physical balance	2005	2,250	To be condemned
Chemical balance	2005	79,456	To be condemned
Water distillation still	2005	77,948	To be condemned
Kjeldahal digestion and distillation (two sets)	2005	76,856	To be condemned

Shaker (two)	2005	73,216	Good
Oven	2005	17,160	To be condemned
Hot plate	2005	2,967	To be condemned
Other minor equipments	2005	1,99,535	To be condemned
Flame Photometer	2012	49,992	Good
Atomic Absorption Spectrophotometer	2012	9,96,213	Good
Total		16,50,205/-	
OTHER EQUIPMENTS			
Xerox machine	2005	63,895	To be replaced
Computer	2006	46,000	To be condemned
Motor and pumps	2010	88,644	Good
LCD projector & Computer	2007	97,860	Computer -To be condemned
FAX machine	2009	15,000	Good
AUDIO VISUAL AIDS			
Slide Projector	1995	10,715	To be condemned
Overhead Projector	1995	12,300	To be condemned
Display boards (twenty) 36 x 48 inches	2008	24,323	Good
Whit boards (two) 48 x 72 inches	2008	6,222	Good
Black boards (two) 48 x 72 inches	2008	6,075	Good
Tri pod screen for slide / overhead / LCD projector	1996	4,780	To be condemned
Display board (one)	2009	1330	Good
Laser pointer	2009	1125	To be condemned
Collar mike	2009	1687	To be condemned
Tri pod screen (wall mounting spring loaded screen)	2009	9225	Good
Digital Camera	2009	8,990	To be condemned
Digital Camera	2010	24,990	Good
Total		423161/-	
TRAINEE'S HOSTEL FURNITURE			
Beds / Cots (16)	2006	65,600	Good
Chairs (36)	2006	61,920	Good
Total		1,27,520 / -	

1.8. Details SAC meeting conducted in the year

Date	Name and Designation of Participants	Salient Recommendations	Action taken
15-01-2019	1. Dr. E B Chakurkar, Director, ICAR – CCARI, Ela, Old Goa, Goa (403 402)	1. Identification of area and establishment of scion block of newly released cashew varieties of the institute to be done (Action: farm Manger & PC, KVK).	Area identified in Block C near IATM block. Soil testing has been done of the identified block.
	2. Dr. Lakhani Singh, Director, ATARI, Pune	2. Efforts be made for Micro chipping of mango different mango varieties in scion block. (Action: farm Manger & PC, KVK).	Efforts are being made for micro chipping of mango different mango varieties in scion block in consultation with Dr. A. R. Desai, Principal Scientist (Horticulture), ICAR – CCARI, Goa.
	3. Mr. Madhav Kelkar, Director, Directorate of Agriculture, Govt of Goa, Krishi Bhawan, Tonca, Panaji -Goa	3. Number of soil samples to be increased (1500) and ensure timely distribution of soil health cards. (Action: Technical Officer – Soil Science)	Efforts are being made to collect and analyze 1500 Soil sampling for the year 2019-20.
	4. Dr. Anil Phadte, Goa Dairy, Curti, Ponda	4. The established bee colonies be maintained and planting of flowering plants be taken up. (Action: PC, KVK, NG)	During monsoon season the flowering plants will be planted.
	5. Mr. Nevil Alphonso, Programme Coordinator, KVK, South Goa	5. Zero energy cool chamber unit should be at KVK North Goa and systematic data be recorded. (Action: SMS – Home Science)	Zero energy cool chamber unit will be installed at KVK North Goa and systematic data be recorded and presented during next SAC meeting.
	6. Ms. Deepa G L , Deputy Director, MSME		
	7. Ms. Megha Kerker, Superintendent of Fisheries		
	8. Chandran S, Asstt Superintendent of Fisheries		
	9. Mr. Sunil Kumar, SMS, KVK, Kolhapur – II		

10. Mr. K L Nayak, NABARD, Panaji, Goa 11. Mr. Senthil kumar, Branch Manager, Old Goa 12. Smt Fatima Pereira (Progressive Farm Women) 13. Ms. Madhavi Gawas (Progressive Farm Women), Taleigao, Goa 14. Mr. Suhas Hari Phadte (Progressive Farmer), Cumberjuha 15. Mr. Shridhar Parvatkar, (Progressive Farmer) Neura, Goa 16. Mr. Prakash Naik, (Progressive Farmer) Pilar, Goa 17. Mr. Dhananjay Marathe, (Progressive Farmer) Sal, Bicholim, Goa 18. Mr. Omu Gawas, (Progressive Farmer) Pilar, goa 19. Ms. Anisha Samant, (Progressive Farmer) Tambose, Goa 20. Mr. Ashok Parab, Mopa, (Progressive Farmer) pernem, Goa 21. Mr. Pandurang Phadte, All India Radio, Altinho, Panaji, Goa 22. Dr. Manohara KK, Pr. Scientist, ICAR – CCARI, Ela, Old Goa 23. Dr. A R Desai, Pr. Scientist, ICAR – CCARI, Ela, Old Goa 24. Dr. Priyadevi, Sr. Scientist, ICAR – CCARI, Ela, Old Goa 25. Dr Mathala Gupta, Scientist, ICAR – CCARI, Ela, Old Goa 26. Dr. Gopal Mahajan, Scientist, ICAR – CCARI, Ela, Old Goa 27. Dr. Susitha Rajkumar, Scientist ICAR – CCARI, Ela, Old Goa 28. Dr. Maruthadurai, Scientist, ICAR – CCARI, Ela, Old Goa 29. Dr. Sreekant G B , Scientist, ICAR – CCARI, Ela, Old Goa 30. Dr. Gokuldas PP, Scientist, ICAR – CCARI, Ela, Old Goa 31. Dr. Nibedita Nayak, Scientist , ICAR – CCARI, Ela, Old Goa	6. Training programme for White pepper production should be conducted during November, 2019. (Action: PC, KVK, NG)	Training programme for White pepper production will be conducted during November, 2019
	7. Economics of VCO unit be studied with full capacity production. (Action: SMS – Home Science)	Economics of VCO unit has been studied with full capacity production. Two units has been established at commercial unit in Goa
	8. Programme of KVK and success stories be sent to ICAR website. (Action: PC, KVK, NG)	Programme of KVK and success stories were sent to ICAR website through ICAR – ATARI, Pune.
	9. The next SAC be conducted in the month of April, 2019. (Action: PC, KVK, NG)	The next SAC will be conducted in the month of July - August, 2019.
	10. A meeting with AIR officers be organized with Scientist and KVK staff to finalize the programme for radio talks. (Action: PC, KVK, NG).	A meeting with AIR officers will be organized with Scientist and KVK staff to finalize the programme for radio talks during July, 2019.
	11. Impact assessment of training programmes be done by organizing ex-trainees meeting. (Action: All SMS & PC, KVK, NG)	Impact assessment of training programmes is being done by organizing ex-trainees meeting.
	12. Awareness programme on jackfruit processing be organized along with Dr. Priyadevi, Pr. Scientist and Dr. Mathala Gupta. (Action: SMS – Home Science)	Awareness programme on jackfruit processing is being organized along with Dr. Priyadevi, Pr. Scientist and Dr. Mathala Gupta.
	13. A model nutrition garden be established at KVK. (Action: SMS – Home Science)	Establishment of A model nutrition garden at KVK is in progress.
	14. Fertility studies in bypass fed cattle be done. (Action: SMS – Animal Science)	Fertility studies in bypass fed cattle are being studied.
	15. Management practices be studied in Konkan Kanyal goat with focus on nutrient management. (Action: SMS – Animal Science)	Management practices in Konkan Kanyal goat with focus on nutrient management are being studied.
	16. A benchmark survey on hydroponics green fodder production technology to be done. (Action: SMS – Animal Science)	A benchmark survey on hydroponics green fodder production technology is in progress.
	17. Mobile advisories to the farmers and personalized advisories be sent. (Action: All SMS)	Mobile advisories to the farmers and personalized advisories are being sent.
	18. Training and demonstration on pest management be organized to the field staff of ATMA, North Goa. (Action: PC, KVK, NG)	Training and demonstration on pest management is being organized to the field staff of ATMA, North Goa.
	19. A training on banana cultivation be organized. (Action: PC, KVK, NG)	A training on banana cultivation will be organized during September, 2019
	20. The trials on newly released fodder varieties be studied for longer duration. (Action: SMS – Animal Science)	The trials on newly released fodder varieties is being studied

2. DETAILS OF DISTRICT

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),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)

a) Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	Coastal	Hillock neighbouring Arabian sea

b) Topography

S. No.	Agro ecological situation	Characteristics
1	Rainfed	Laterite and sandy loam soil, Average rainfall 3000 mm

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	Kolva	Deep dark yellowish brown to very dark yellowish brown	0.558
4	Panaji	Moderately deep, light brownish grey to dark grayish brown	0.641
5	Zuari	Deep, dark yellowish brown	21.772
6	Kalangute	Deep, very dark brown to dark grey	3.654
7	Padi	Moderately deep, brown to dark yellowish brown	0.105
8	Nagowa	Deep, reddish brown to dark reddish brown	11.698
9	Raya	Very shallow, strong brown to dark brown	6.159
10	Dabolom	Very shallow, brown to dark brown	10.114
11	Madgaon	Deep reddish brown to dark reddish brown	40.957
12	Chapora	Deep, brown to dark brown	19.901
13	Zaimola	Yellowish red to dark reddish brown	8.565
14	Zuari	Deep, dark yellowish brown	8.629
15	Batim	Deep yellowish brown to dark yellowish brown	8.537
16	Devabag	Shallow, dark yellowish brown	0.783
17	Gudi	Deep, light yellowish brown to dark yellowish brown	2.121
18	Netravali	Slightly deep dark reddish brown	11.394
19	Torse	Shallow, brown to dark brown	97.173
20	Darbandora	Moderately deep, brown to dark reddish brown	10.494
21	Metawada	Shallow, dark reddish brown	36.819
22	Bandoli	Deep yellowish red	44.073
23	Pali	Moderately deep, dark yellowish brown	6.996
24	Rock out crops	Builders of basal	0.161
25	Surla	Moderately deep brown to dark brown	1.686

2.4. Area, Production and Productivity of major crops cultivated in the district (2017-18)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Paddy	34261 (Kharif)	117206881 (Kharif)	3421 (K)
		17930 (Rabi)	65318990 (Rabi)	3643 (R)
2	Pulses	11477	11258937	981
3	Sugarcane	1034	56027290	54185
4	Coconuts	25545	127571730	4994
5	Arecanuts	1677	2666430	1590
6	Cashew nuts	55612	21966740	395
7	Mango	4494	18892776	4204
8	Banana	2398	23478818	9791
9	Vegetables	5547	56024700	10100
10	Groundnut	3720	6997320	1881

Source: District agriculture department.

2.5. Weather data (2017-18)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
April	0.0	37.4	23.9	89.8	51.6
May	13.5	37.0	24.6	87.7	63.1
June	758.4	33.4	21.9	91.0	71.8
July	1249.9	30.3	22.1	91.4	82.3
August	366.9	31.1	20.4	91.2	79
September	424.3	32.1	22.7	92.4	76.7
October	371	34.2	23.4	90.2	59.5

November	6.3	34.7	23	85.6	51.1
December	0	34.9	21.7	82.4	54.6
January	12.8	35.3	20.6	81.3	47.5
February	0	35.3	20.5	85.6	41.6
March	0	36.5	23.2	88.2	48.7

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	9,604	59,000 t (State Production of all Milk animals)	1,326 kg / year (Avg. of all Lactating animals in the state)
<i>Indigenous</i>	27,808		
Buffalo	21,956		
Sheep			
<i>Indigenous</i>	116		
Goats	5,629		
Pigs	13,411		
<i>Crossbred</i>	895		
<i>Indigenous</i>	12,516		
Rabbits	744		
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		
<i>Desi</i>	13,623		
<i>Improved</i>	1,259		
Ducks	188		
Turkey and others	46		

2.7. Details of Operational area / Villages

Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Ponda	Veling, Priol, Farmagudi	Veling, Priol, Farmagudi	Rice-cowpea, groundnut, Vegetables. Coconut, Cashew, Mango.	SOIL <ul style="list-style-type: none"> ▪ Acidic soil ▪ Poor soil health & waste land ▪ Soil fertility degradation. ▪ Soil and water erosion. 	Soil reclamation through INM, organic farming. Conservation farming
Bardez	Guirim, Sangolda, Parra, Aldona,	Guirim, Sangolda, Parra, Aldona,	Banana. Marigold, Dairy, poultry, Piggery, Goatery. Papad making, Crafts.	RICE <ul style="list-style-type: none"> ▪ Monocropping, Fallow land ▪ Poor yielding varieties. ▪ Imbalanced nutrients use ▪ Leaf mold in rice 	ICM
Pernem Bicholim	Ibrampur Surla	Ibrampur Surla		CASHEW <ul style="list-style-type: none"> ▪ TMB, CSRB pests ▪ Underutilization of interspaces' in newly plantations ▪ Lack of value addition & processing 	IPM Intercropping Value addition
				COCONUT <ul style="list-style-type: none"> ▪ Underutilization of interspaces' ▪ RPW, mite pests ▪ Post harvest losses 	Intercropping IPM Value addition
				MANGO <ul style="list-style-type: none"> ▪ Alternate bearing & Old plantation ▪ Imbalanced nutrition ▪ Post harvest losses 	ICM of improved grafted varieties INM Value addition
				VEGETABLES <ul style="list-style-type: none"> ▪ Low margin of profits from traditional vegetable 	ICM of improved varieties/ High value crops/ technologies

				crops/varieties & lack of diversification <ul style="list-style-type: none"> ▪ Lack of value addition & processing CHILLI <ul style="list-style-type: none"> • Root rot disease • Closer spacing 	Value addition IDM
				BRINJAL <ul style="list-style-type: none"> ▪ Wilt disease ▪ Use of own seed CUCURBITS <ul style="list-style-type: none"> ▪ Fruit fly pest & leaf spot disease ▪ Use of own seed OKRA <ul style="list-style-type: none"> ▪ YVMV disease ▪ Use of own seed SWEET POTATO <ul style="list-style-type: none"> ▪ Sweet potato weevil ▪ Poor yielding local varieties ANIMALS <ul style="list-style-type: none"> ▪ Non availability of fodder round the year ▪ Imbalanced nutrition ▪ Non descript local breeds ▪ Infertility in cattle ▪ Unhygienic milk production BIRDS <ul style="list-style-type: none"> ▪ Non descript local breeds ▪ Imbalanced nutrition OTHERS <ul style="list-style-type: none"> ▪ 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 	IDM Quality seed production IPM Quality seed production Disease management Quality seed production IPM ICM of improved varieties High breed Napier grasses Nutrition management ICM of improved breeds/cross breeds Fertility management Quality milk production ICM of Vanraja/Grampriya birds for BYF Balanced feeding using locally available ingredients Awareness programmes/capacity building Entrepreneurship development Intensive farming/improvement in production/productivity & income. Water harvesting & management Farm mechanization

2.8. Priority thrust areas:

S. No	Thrust area
1.	Wilt disease in brinjal
2.	Non availability of green fodder
3.	Low egg and meat yield in deshi poultry birds
4.	Low fat percentage in crossbreed animals
5.	Weevil in sweet potato
6.	Low fat percentage in crossbreed animals
7.	Mastitis in dairy animals
8.	Inbreeding in pigs
9.	Post Harvest and Value Addition of Kitchen Garden Vegetables

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
2	2	8	8	10	10	60	60

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
70	74	1750	2125	2000	12000	2357	13288

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Nil	Nil	3500	3798

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Khadaknath – 05	05	Vermicompost (2000 kg)	2226
Srinidhi – 200	247	Earthworms (02 kg)	2.6
Vanaraja – 500	599	<i>Trichoderma</i> (5 kg)	5.0
Grampriya – 100	105		
CARI Nirbheek – 200	210		
Eggs - 5000	5296		

3.1. B. Operational areas details during 2018-19

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
6.1	Soil	<ul style="list-style-type: none"> Acid / Saline soil Poor soil health & waste land Soil fertility degradation. Soil and water erosion. Mine reject soil 	79908 ha of which 15-20%		Training / Demonstration
6.2	Rice	<ul style="list-style-type: none"> Poor yielding local varieties. Imbalanced nutrients use Leaf mold in rice Post harvest losses 	26889 ha of which 25-30%		Training / Demonstration
6.3	Cashew	<ul style="list-style-type: none"> 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
6.4	Coconut	<ul style="list-style-type: none"> Underutilization of interspaces' RPW, mite pests Post harvest losses. Old and saline orchard. 	11310 ha of which 60-70%		Training / Demonstration

6.5	Mango	<ul style="list-style-type: none"> • Alternate bearing & Old plantation • Imbalanced nutrition • Post harvest losses. • Imbalanced nutrient. • Old and saline orchards. • Fruit fly • Loranthus 	60-70 %		Training / Demonstration
6.6	Vegetables	<ul style="list-style-type: none"> • 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
6.7	Chilli	<ul style="list-style-type: none"> • Root rot disease • Closer spacing • Improper nutrient • Improper management • Low Yielding • Local Variety • Thrips and Viral Diseases 	55-60 %		Training / Demonstration
6.8	Brinjal	<ul style="list-style-type: none"> • Wilt disease • Use of own seed • Improper nutrient • Improper management 	50-55%		OFT, Training / Demonstration
6.9	Cucurbit	<ul style="list-style-type: none"> • Fruit fly pest & leaf spot disease • Use of own seed • Improper nutrient • Improper management 	50-55%		Training / Demonstration
6.10	Onion	<ul style="list-style-type: none"> • Low yield local variety • Improper management • Improper nutrient management 	50-55 %		Training / Demonstration
6.11	Okra	<ul style="list-style-type: none"> • YVMV disease • Use of own seed • Improper nutrient • Improper management 	50-55%		Training / Demonstration
6.12	Sweet Potato	<ul style="list-style-type: none"> • Sweet potato weevil • Poor yielding local varieties • Improper nutrient • Improper management 	50-55%		FLD, Training / Demonstration
6.13	Animals	<ul style="list-style-type: none"> • Non availability of fodder round the year • Imbalanced nutrition • Non descript local breeds 	60-65%		FLD, Training / Demonstration
6.14	Birds	<ul style="list-style-type: none"> • Non descript local breeds • Imbalanced nutrition 	50-55%		OFT, Training / Demonstration

6.15	Other	<ul style="list-style-type: none"> 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
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3.2. Technology Assessment and Refinement

A3. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	TOTAL
Evaluation of Breeds	0	1	1
Feed and Fodder	1	0	1
TOTAL	1	1	2

B. Achievements on technologies Assessed and Refined

B.3. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	Poultry	Assessment of improved poultry varieties – Grampriya & CARI Nirbheek birds	05	05
Feed and fodder	Hybrid Napier	Assessment of Hybrid Napier fodder varieties – CO-4 & CO-5	03	03
Total			08	08

C1. Results of Technologies Assessed

Results of On Farm Trial (2017-18)

OFT : 01

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Poultry	Rice based farming system	Low egg and meat yield in desi poultry birds	Assessment of improved poultry varieties	5	FP: Desi Birds RP: Vanaraja Birds AP: Srinidhi Birds	1 Egg yield 2. Weight at 5 months 3. mortality	Egg production (no /year) Desi:54.4 Vanaraja:99.5 Srinidhi:138.3 Weight at (kg) 5 months Desi: Male 0.95 Kg & Female 0.79 Kg	Farmers got more profit by maintaining Srinidhi than Vanaraja and Desi birds with similar management	Farmers are very much satisfied by getting good weight at 4-5 months age and more number of brown colour of eggs from	No	Not Applicable

							Vanaraja: Male :2.18 Female: 1.75		Srinidhi which has high demand in the market.		
							Srinidhi Male :1.97 Female:1.85				

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	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		Desi	1. Egg production per year:54.4 no. 2. Weight at 5 month old - Male :0.95 Kg Female:0.79 Kg 3. Survivability:92 %	524	1.7
Technology option 2	ICAR – PDP Hyderabad	Vanaraja	1. Egg production per year : 99.5 no 2. Weight at 5 month old - Male:2.18 Kg Female:1.75 Kg 3. Survivability:94%	875	2.36
Technology option 3	ICAR – PDP Hyderabad	Srinidhi	1. Egg production per year:138.3 no 2. Weight at 5 month old - Male:1.97 kg Female:1.85 Kg 3. Survivability:94%	1263	3.29

OFT : 02

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Dairy	Rice based farming system	Non Availability of Green fodder	Assessment of hybrid Napier fodder varieties	3	FP: Local Grass RP: CO-4 AP: CO-5	1. Green Grass Yield 2. No of cuttings per year	Green grass yield Local grass : Karad : 18.32 T/ha Boro : 62.8 T/ha CO4:328.4 T/ha CO5:344.5 T/ha No. of cuttings per year Both CO 4 and CO5 6 cuttings/ year. In local 2 cuttings/ year	Green grass yield wise CO5 fodder gives more yield than CO4 with same cuttings i.e. 6 cuttings / year . CO5 stem is more succulent than CO4 CO5 contains more CP% 14 than CO4 i.e 10.71%	Farmers are very much satisfied by getting good green grass yield round the year.	No	Not Applicable

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal,	Net Return (Profit) in Rs. / unit	BC Ratio
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			nuts/palm, nuts/palm/year)		
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		Karad grass Boro grass	18.32 T/ha/Year 62.8 T/ha/Year	664 3560	1.22 1.39
Technology option 2	TNAU - Coimbatore	CO4	328.4T/ha Year	34520	1.53
Technology option 3	TNAU - Coimbatore	CO5	344.5 T/ha/year	39368	1.61

Results of On Farm Trial (2018-19)

OFT : 01

Crop/ enterprise	Farmin g situatio n	Problem definitio n	Title of OFT	No. of trial s	Technolog y Assessed	Parameter s of assessme nt	Data on the parameter	Results of assessment	Feedback from the farmer	Any refineme nt needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Poultry	Rice based farming system	Low egg yield in desi poultry birds	Assessme nt of improved poultry varieties	5	FP: Desi Birds RP: Grampriya Birds AP: CARI Nirbheek Birds	1 Egg yield 2. Survival %	Egg production (no /year) Desi:58.4 Grampriya:104. 6 CARI Nirbheek:141.8 Survival % Desi : Grampriya : CARI Nirbheek :	Farmers got more profit by maintainin g Grampriya and CARI Nirbheek then Desi birds with similar managemen t	Farmers are very much satisfied by getting good more number of brown colour eggs from Grampriya and CARI Nirbheek which has high demand in the market.	No	Not Applicable

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	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		Desi	On going	On going	On going
Technology option 2	ICAR – PDP Hyderabad	Grampriya			
Technology option 3	ICAR – CARI, Bariley	Nirbheek			

OFT : 02

Crop/ enterprise	Farmin g situatio n	Problem definition	Title of OFT	No. of trial s	Technolog y Assessed	Parameters of assessment	Data on the parame ter	Results of assessment	Feedbac k from the farmer	Any refinemen t needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12

Dairy	Rice based farming system	Non Availability of Green fodder	Assessment of hybrid Napier fodder varieties	3	FP: Local Grass RP: CO-4 AP: CO-5	1. Green Grass Yield 2. No of cuttings per year				No	Not Applicable
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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	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		Karad grass Boro grass	On Going	On Going	On Going
Technology option 2	TNAU - Coimbatore	CO4			
Technology option 3	TNAU - Coimbatore	CO5			

C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

- 1 Title of Technology Assessed : Assessment of improved poultry varieties
 - 2 Problem Definition : Low egg yield in deshi poultry birds
 - 3 Details of technologies selected for assessment : RP: Grampriya & AP: CARI Nirbheek Birds
 - 4 Source of technology : ICAR – PDP Hyderabad, ICAR – CARI, Bariley
 - 5 Production system and thematic area : Rice based farming system
 - 6 Performance of the Technology with performance indicators : 1 Egg yield , 2. Survival %
 - 7 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :
 - 8 Final recommendation for micro level situation : NA
 - 9 Constraints identified and feedback for research : NA
 - 10 Process of farmers participation and their reaction : NA
-
- 1 Title of Technology Assessed : Assessment of hybrid Napier fodder varieties
 - 2 Problem Definition : Non Availability of Green fodder
 - 3 Details of technologies selected for assessment : RP: CO-4 & AP: CO-5
 - 4 Source of technology : TNAU, Coimbatore
 - 5 Production system and thematic area : Rice base farming system
 - 6 Performance of the Technology with performance indicators : 3. Green Grass Yield & No of cuttings per year
 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques :
 - 8 Final recommendation for micro level situation : NA
 - 9 Constraints identified and feedback for research : NA
 - 10 Process of farmers participation and their reaction : NA

D1. Results of Technologies Refined

3.3. FRONTLINE DEMONSTRATION

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	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BC R (R/C)	Gross Cost	Gross Return	Net Return	BC R (R/C)	
					High	Low	Average													
Cereals																				
Paddy	Varietal Evaluation	Popularization of High yielding salt tolerant	04	02	21.3	19.8	20.9	12.7	64.5	4.88	3.23	40230	73150	32920	1.82	34480	44450	9970	1.28	

		rice variety																	
Fruit crops																			
Cashew	IPM	Management of Stem & Root Borer	10	05	14.39	12.2	13.3	6.28	82.5	2.63	11.55	69072	172690	103608	2.50	46610	75360	28750	1.61
Cashew	Varietal Evaluation	Popularization of High yielding multiple cashew varieties	02	2.0	-	-	-	-	-	53.4	42.5	-	-	-	-	-	-	-	-
Coconut	IDM	Management of Bud rot	10	2.0	16050	15550	15800	13120	45.2	2.45	18.32	61800	128000	66200	2.07	54980	104960	52980	1.90

FLD on Livestock (2017-18)

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major 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)
Piggery	crossbreeding	Popularization of AI in pigs	5	5	body weight at birth 830.4 grams. body weight at market age 73.54 Kg.	body weight at birth 610.8 grams. body weight at market age 32.75 Kg	35.95 % in birth weight 124.5 % in body weight at market	18847	61431	42584	3.26	13046	26849	13803	2.06
Goat	Evaluation of Breeds	Konkan Kanyal Goats	03	06	body weight at birth Male 1.95kg. Female 1.8 kg. body weight at market age Male 23.0 Kg. Female 19.0 Kg.	body weight at birth Male 1.4kg. Female 1.3 kg . body weight at market age Male 17.5 Kg. Female 16.0 Kg.	Male 31.4 % Female 18.8 %	3725	10223	6498	2.74	3510	8590	5080	2.44

FLD on Livestock (2018-19)

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Dairy	Disease Management	Teat dip cup Lactifense liquid Phenyl liquid Intra - mammary tube	10	10	1. Milk Yield for 4 months (Lit): 1389 lit	1. Milk Yield (Lit) for 4 months : 1240 lit	11.36 % less milk yield recorded in check	Nil	Nil	23038	54193	31155	2.35	21600	47133	25533	2.18
					2. Morbidity within 4 months rate (%): nil incidence	2. Morbidity rate (%): 16.96 % incidence											

	Animal Nutrition Management	Bypass fat	10	10	1. Milk yield for 3 months 1280 Lts 2. Average Fat % - 4.20	1. Milk yield for 3 months 1193 ltrs 2. Average Fat % - 3.72	1. 10.99 % more milk in demo 2. 12.75% more fat in demo	Nil	Nil	19000	51243	32243	2.70	18000	43533	25533	2.42
Goat	Evaluation of Breeds	Konkan Kanyal Goats	03	03	Result Awaited												
Poultry	Evaluation of Breeds	Srinidhi	05	05	Result Awaited												

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Value Addition	Virgin Coconut Oil Production	02	02	05	-	-	-	-	2800	5500	2700	1.96	-	-	-	-
	Jackfruit Chips making	04	04	15	8	1.875	-	-	1800	3500	1700	1.94	1000	1400	400	1.40

3.4. Training Programmes

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Integrated nutrient management	1	10	13	23	0	0	0	10	13	23
Total	1	10	13	23	0	0	0	10	13	23
IV Livestock Production and Management										
Dairy Management	1	17	3	20	0	0	0	17	3	20
Poultry Management	1	0	27	27	0	0	0	0	27	27
Piggery Management	1	12	0	12	0	0	0	12	0	12
Goat Management	1	35	2	37	0	0	0	35	2	37
Total	4	64	32	96	0	0	0	64	32	96
V Home Science/Women empowerment										
Minimization of nutrient loss in processing	1	0	30	30	0	3	3	0	33	33
Value addition	3	0	50	50	0	7	7	0	57	57
Total	4	0	80	80	0	10	10	0	90	90
VII Plant Protection										
Integrated Pest Management	5	23	20	43	27	20	47	50	40	90
Total	5	23	20	43	27	20	47	50	40	90
GRAND TOTAL	14	97	145	242	27	30	57	124	175	299

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										
Integrated nutrient management	6	100	200	300	18	100	118	118	300	418
Total	6	100	200	300	18	100	118	118	300	418
IV Livestock Production and Management										
Dairy Management	4	67	36	103	0	0	0	67	36	103

Poultry Management	1	10	5	15	0	0	0	10	5	15
Disease Management	4	53	34	87	0	0	0	53	34	87
Feed & fodder technology	13	212	56	268	0	0	0	212	56	268
Total	22	342	131	473	0	0	0	342	131	473
V Home Science/Women empowerment										
Minimization of nutrient loss in processing	3	0	95	95	0	12	12	0	107	107
Value addition	2	0	110	110	0	4	4	0	114	114
Total	5	0	205	205	0	16	16	0	221	221
VII Plant Protection										
Integrated Pest Management	8	70	38	108	53	42	95	123	80	203
Total	8	70	38	108	53	42	95	123	80	203
GRAND TOTAL	41	512	574	1086	71	158	229	583	732	1315

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										
Integrated nutrient management	7	110	213	323	18	100	118	128	313	441
Total	7	110	213	323	18	100	118	128	313	441
IV Livestock Production and Management										
Dairy Management	5	84	39	123	0	0	0	84	39	123
Poultry Management	2	10	32	42	0	0	0	10	32	42
Piggery Management	1	12	0	12	0	0	0	12	0	12
Disease Management	4	53	34	87	0	0	0	53	34	87
Feed & fodder technology	13	212	56	268	0	0	0	212	56	268
Goat Management	1	35	2	37	0	0	0	35	2	37
Total	26	406	163	569	0	0	0	406	163	569
V Home Science/Women empowerment										
Minimization of nutrient loss in processing	4	0	125	125	0	15	15	0	140	140
Value addition	5	0	160	160	0	11	11	0	171	171
Total	9	0	285	285	0	26	26	0	311	311
VII Plant Protection										
Integrated Pest Management	13	93	58	151	80	62	142	173	120	293
Total	13	93	58	151	80	62	142	173	120	293
GRAND TOTAL	55	609	719	1328	98	188	286	707	907	1614

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Vermi-culture	1	9	2	11	6	3	9	15	5	20
Mushroom Production	3	22	32	54	24	40	64	46	72	118
Bee-keeping	5	35	31	66	46	25	71	81	56	137
Value addition	5	0	111	111	0	10	10	0	121	121
TOTAL	14	66	176	242	76	78	154	142	254	396

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Mushroom Production	2	1	16	17	3	16	19	4	32	36
TOTAL	2	1	16	17	3	16	19	4	32	36

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Vermi-culture	1	9	2	11	6	3	9	15	5	20
Mushroom Production	5	23	48	71	27	56	83	50	104	154
Bee-keeping	5	35	31	66	46	25	71	81	56	137
Value addition	5	0	111	111	0	10	10	0	121	121
TOTAL	16	67	192	259	79	94	173	146	286	432

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Low cost and nutrient efficient diet designing	1	10	29	39	0	0	0	10	29	39
TOTAL	1	10	29	39	0	0	0	10	29	39

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Low cost and nutrient efficient diet designing	1	10	29	39	0	0	0	10	29	39
TOTAL	1	10	29	39	0	0	0	10	29	39

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and value addition										
Production of Inputs at site	01	15	5	20	0	0	0	15	5	20
Total	01	15	5	20	0	0	0	15	5	20
Livestock and fisheries										
Dairy Farming	01	12	8	20	0	0	0	12	8	20
Total	01	12	8	20	0	0	0	12	8	20
GRAND TOTAL	02	27	13	40	0	0	0	27	13	40

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	2049	2910	35	2945
Diagnostic visits	112	383	15	398
Field Day	01	47	3	50
Group discussions	06	188	12	200
Film Show	15	254	34	288
Self -help groups	5	125	-	125
Kisan Mela	1	4000	100	4100
Exhibition	3	1500	80	1580
Scientists' visit to farmers field	65	754	21	775
Farmers' seminar/workshop	04	126	14	140
Method Demonstrations	54	1023	24	1047
Celebration of important days	09	350	06	356
Special day celebration	05	257	16	273
Exposure visits	06	331	07	338
TV Programme (DD Kisan)	01	-	-	-
Radio Programme	04	-	-	-
Animal Health Camps	10	213	04	217
Lecture delivered	07	451	05	456
Total	2357	12912	376	13288

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	01
Extension Literature	08
Newspaper coverage	12

Popular articles	03
Radio Talks	03
TV Talks	02
Animal health camps (Number of animals treated)	213
Total	242

3.6. PRODUCTION OF SEED/PLANTING MATERIAL, BIO-PRODUCTS AND VALUE ADDED PRODUCTS

Production of Value added products by the KVKs

Crop	Name of the crop	Name of the variety	Value (Rs)	Number of farmers
Value Added Products	Kokum	Amruta	165865	23
	Coconut	Local		25
Total			165865	48

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	Horticulture	Local	NA	1156	57,800/-	356
	Cashew	Goa Cashew 01, 02, 03, 04	NA	258	19,350/-	124
	Mango	Mankurad, Amarpali, Kesar, Ratna	-	641	49,998/-	374
Ornamental plants	-	-	-	1601	72,045/-	1024
Medicinal and Aromatic	-	-	-	142	5,680/-	89
Total				3798	2,04,873	1967

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers	Vermicompost	2226	44520	258
Bio-fungicide	<i>Trichoderma viride</i>	5	1000	2
Total		2231	45520	260

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Others (Pl. specify)	Buffalo milk	9283.5 lit	460291	57
Poultry				
Others (Pl. specify)	Backyard poultry Khadaknath	05	1400	2
	Srinidhi	247	31240	20
	vanaraja	599	47680	15
	Grampriya	105	9430	30
	CARI Nirbheek	210	28190	22
	Eggs	5296	31776	45
	Poultry Manure	250 Kgs	750	10
	Training Fees	02	13500	47
Total		6464	624257	248

Discipline	Number of trainings	Training Fees (Rs.)
Plant Protection	08	15,000/-
Animal Science	02	13,500/-
Home Science	08	44,375/-
	18	72,875/-

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	Title	Authors name	Number
Research papers	Adaptation of Murrah Cross buffalo towards heat stress by nutritional and managemental intervention at coastal climate of Goa.	Dr. S. K. Das and Dr. Sanjaykumar V. Udharwar	01
Technical reports	Action Plan, Annual Report, Etc.	PC Incharge	05
News letters	KVK Newsletter	PC Incharge	02
Popular articles	Hydroponic fodder, Clean milk production, Bypass fat Green fodder cultivation.	Dr. Sanjaykumar V. Udharwar Dr. Chetankumar H. B. Dr. Eaknath B. Chakurkar	04
Extension literature	Leaflet	Dr. Sanjaykumar V. Udharwar	06
	Technical Folder	Shri H. R. C. Prabhu	01
	Technical Folder	Dr. Sanjaykumar V. Udharwar	01
	Technical Folder	Smt. Sunetra Talaulikar	03
TOTAL			23

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	CD	Guide to Vermicomposting	20

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

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	Amount (Rs.)
ASCI	March, 2019	ASCI	3,54,800/-

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

If yes, role of KVK in preparation of SREP of the district?

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK
01	Meetings	Meetings	05	04
02	Training programmes	Trainings	08	05
03	Demonstrations	Demonstrations on Dairy farming, VCO production, Income Generating Activities, IPM	05	05
04	Extension Programmes			
	Exposure visit	Exposure visits	04	00
	Exhibition	Vegetable Expo	02	00
	Soil health camps	Soil Testing	06	06
	Animal Health Campaigns	Animal Health Campaigns	01	00

D. Give details of programmes implemented under National Horticultural Mission : NA

E. Nature of linkage with National Fisheries Development Board : NA

F. Details of linkage with RKVY :

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Establishment of Integrated Agriculture Technology Model for sustainable Agriculture	Funding	54.00 lakhs	53,00,000	Project completed
2	Upgradation of training facilities for advanced trainings	Funding	59.00 Lakhs	30,00,000	Project completed
3	Strengthening of Soil Testing Laboratory as Central Soil Testing Laboratory for soil, plant, compost and water analysis	Funding	43.92 Lakhs	30,00,000	Project completed
4	Production of Virgin Coconut Oil.	Funding	52.94 Lakhs	30,00,000	Project completed

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)
Feeding of Bypass fat	10	85	30000/-	39000/-
Clean Milk Production	10	90	26000/-	32000/-

Management of Weevil in Sweet Potato	10	80	39000/-	108000/-
Artificial Insemination in Pigs	05	80	13000/-	44000/-
Introduction of Fodder Varieties	03	90	640/-	39,000/-

**B. Cases of large scale adoption
(Please furnish detailed information for each case)**

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

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
July -2018	01	47	0
February - 2019	03	619	0

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	
North Goa	Text only	Nil	Nil	Nil	Nil	Nil	04	04
	Total Messages	Nil	Nil	Nil	Nil	Nil	04	04
	Total farmers Benefitted	Nil	Nil	Nil	Nil	Nil		666

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	
1	Nursery	2000	01	Grafts	3798	3798	1,20,000/-	2,04,873/-	

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

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)	
			Cost of inputs	Gross income
1	Vermicompost	2226	34000/-	45,520/-
	Earthworms	2.6		

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)	
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income
1	Buffalo	Murrah	Buffalo milk	9283.5 lit	6,67,322/-	4,60,291/-
2	Poultry Birds	Khadaknath	Khadaknath	05	1,10,540/-	1,50,466/-
		Srinidhi	Srinidhi	247		
		vanaraja	vanaraja	599		
		Grampriya	Grampriya	105		
		CARI Nirbheek	CARI Nirbheek	210		
			Eggs	5296		
			Poultry Manure	250 Kgs		

E. Utilization of hostel facilities

Accommodation available (No. of beds): 16 nos.

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2018	7	5	NA
May 2018	94	19	NA
June 2018	46	36	NA
July 2018	14	19	NA
August 2018	33	88	NA
September 2018	26	56	NA
October 2018	48	82	NA
November 2018	38	51	NA
December 2018	41	36	NA
January 2019	32	49	NA
February 2019	41	17	NA
March 2019	26	25	NA

G. Details on Rain Water Harvesting Structure and micro-irrigation system : No amount sanctioned for water harvesting system

16. 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							

B. Utilization of KVK funds during the year 2017-18 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Salary				
1	Pay & Allowances	11500000	11500000	9897939
B. General				
2	Traveling allowances	75000		74744
3	Office Contingencies	700000		697116
4	Technical Programme	700000		697948
Total General		1475000	1475000	1469908
GRAND TOTAL (A+B+C)		12975000	12975000	11367847

C. Status of revolving fund (Rs. in lakh) for the three years Not Applicable

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Shri H. R. C. Prabhu	Programme coordinator Incharge	Training of Trainers	AAU, Anand	25-27 September, 2018
Dr. Sanjaykumar Udharwar	SMS (Animal Science)	Training of Trainers	ICAR – ATARI, Kanpur	17-19 December, 2018
Shri Shashi Vishwakarma	Technical Officer (Soil Science)	15 th Advance Level Training on Soil Testing Plant Analysis and Water Quality Assessment	ICAR - IARI, Delhi	07-27 August, 2018

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	55	707	907	1614
Rural youths	16	146	286	432
Extension functionaries	1	10	29	39
Sponsored Training	2	27	13	40
Total		890	1235	2125

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Cereals	04	2.0	-
Cashew	12	7.0	-
Coconut	10	2.0	-
Total	26	11.0	-
Livestock & Fisheries	28	-	28
Other enterprises	06	-	06
Total	34	-	34
Grand Total	60	11.0	34

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Livestock	01	05	05
Various enterprises	01	03	03
Total	02	08	08
Grand Total	02	08	08

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities		
Other extension activities		
Total		

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages					Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	
North Goa	Text only	Nil	Nil	Nil	Nil	Nil	04
	Total Messages	Nil	Nil	Nil	Nil	Nil	04
	Total farmers Benefitted	Nil	Nil	Nil	Nil	Nil	666

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Planting material (No.)	3798	204873
Bio-Products (kg)	2226	44520
Livestock Production (No.)	6464	624257

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	975	Nil
Total	975	Nil

8. HRD and Publications

Sr. No.	Category	Number
1.	Workshops	02
2.	Meetings	06
3.	Trainings for KVK officials	03
4.	Book published	01
5.	Training Manual	02
6.	Book chapters	04
7.	Research papers	01
8.	Extension folder	05
9.	Proceedings	01

On Farm Trials:



Assessment of improved poultry varieties
Grampriya and CARI – Nirbheek



Assessment of Hybrid Napier fodder
varieties CO-4 and CO-5

Frontline Demonstrations:



Popularization of High yielding salt
tolerant rice variety



Popularization of High yielding multiple
cashew varieties



Demonstration on management of cashew
stem & root borer.



Demonstration on management of bud rot
in coconut.



Popularization of Virgin Coconut Oil Production Technology at Home scale level.



Popularization of Post Harvesting Technologies for Jackfruit



Demonstration on Clean Milk Production in dairy animals



Popularization of Konkan Kanyal Goats in dairy animals



Demonstration feeding of bypass fat in dairy cattle (4 months)



Popularization of Srinidhi – A Dual Purpose Poultry birds

Training Programmes Conducted



Training on Bee Keeping



Training on CSRB Management



Training on Vermicomposting



Training on Virgin Coconut Oil Production



Training on Jackfruit Processing



Training on Dairy Farming



Training on Goat Farming



Training on Fodder Varieties

ASCI Sponsored Training:

Sr. No.	Title of the ASCI Training	Dates	No of Farmers
1	Vermicompost Producer	15 th February to 11 th March, 2019	20
2	Dairy Farmers / Entrepreneur	28 th February to 30 th March, 2019	20
	Total	60	40



Skill Training Programme on Vermicompost Producer



Skill Training Programme on Dairy Farmers / Entrepreneur

Agri Expo 2019



Agri Expo 2019 Exhibition

Extension Activities:



Exhibitions



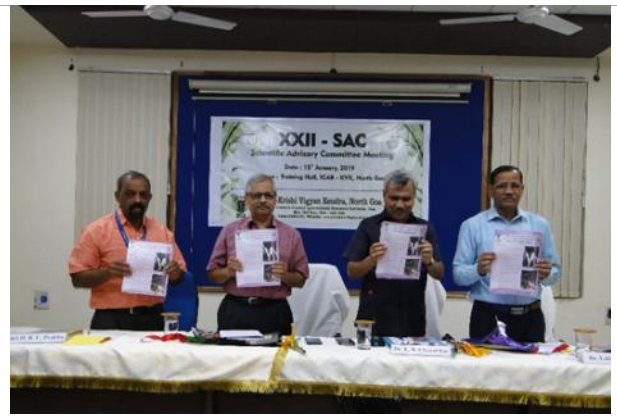
Rabi Meeting



Celebration of Mahila Kisan Divas



Webcasting of PM – Kisan 2019



21st SAC Meeting



Soil Health Campaign and World Soil Day



Kisan Kalyan Karyashala



Visit of Shri Vijay Sardesai, Agriculture Minister, Govt. of Goa



Swachhata Pakwada Celebration



Webcasting PM Interaction with the Farmers



Review of KVK activities by Shri Sripad Y. Naikji, Hon'ble Union Minister of State, Ministry of AYUSH



Nursery Management and Grafting Techniques



Tested Soil and Importance of Soil Health Card

