

**ANNUAL REPORT
(2006 - 2007)**

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra Coastal Saline Research Centre Tamil Nadu Agricultural University Collectorate Complex Ramanathapuram - 623 503 Tamil Nadu	Office 04567-230250 230359	FAX 04567- 230250	arsramnad@tnau.ac.in

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

Address	Telephone		E mail
	Office	FAX	
Tamil Nadu Agricultural University Coimbatore - 641 003	0422-6611233	0422-6611433	dee@tnau.ac.in

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Residence	Telephone / Contact	
		Mobile	Email
Dr. G. Srinivasan	No:6, Aranganatha Perunal Koil St, Sriwilliputhur – 626 125	9244340004	gsagrisearch@rediff.com

1.4. Year of sanction: April 2004

1.5. Staff Position (as on 30th September 2007)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
1	Programme Coordinator	Dr. G. Srinivasan	Associate Professor & Head	Agronomy	12000-420-18300-13680	12.05.06	Permanent	OBC
2	Subject	Dr. A.	Associate	Horticulture	12000-	25.07.07	Permanent	SC

	Matter Specialist	Sakunthalai	Professor		420-18300-13680			
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Sl. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
3	Subject Matter Specialist	Dr. E. Murugan	Associate Professor	Breeding	12000-420-18300-13260	15.06.07	Permanent	OBC
4	Subject Matter Specialist	Dr. M. Murugesh	Associate Professor	Forestry	12000-420-18300-12420	10.05.07	Permanent	SC
5	Subject Matter Specialist	Dr. M. Baskar	Assistant Professor	Soil Science	8000-275-13500-9650	10.12.04	Permanent	OBC
6	Subject Matter Specialist	Th.K. Ramakrishnan	Assistant Professor	Extension	8000-275-13500-8275	14.05.07	Permanent	OBC
7	Subject Matter Specialist	Dr. G. Sasidevi	Assistant Professor	Food Science	8000-275-13500-9375	11.06.07	Permanent	SC
8	Programme Assistant	Th. K. Senguttuvan	Programme Assistant (Technical)	Entomology	5500-175-9000-5500	06.06.07	Permanent	SC
9	Computer Programmer	-	-	-	-	-	-	-
10	Farm Manager	Tmt.M. Jeyanthi mala	Farm Manager	Agriculture	5500-175-9000-5500	06.06.07	Permanent	SC
11	Accountant / Superintendent	Th. K. Nagarajan	Superintendent		6400-175-9200-6400	27.02.07	Permanent	OBC

12	Stenographer	Th. D. Senthilkumar	Junior Assistant		3200-85-4900-3625	15.04.04	Permanent	OBC
13	Driver	Th. M. Mariyapillai	Jeep Driver		3200-85-4900-3200	29.08.07	Permanent	OBC
14	Driver	Th. L. Thangavelu	Mechanic		4000-100-4900-4000	24.08.07	Permanent	OBC
15	Supporting staff	Th. M. Durai	Office Assistant		2550-55-2600-65-3200-2550	13.06.07	Permanent	OBC
16	Supporting staff	-	-	-	-	-	-	-

1.6. Total land with KVK (in ha) :

Sl.No.	Item	Area (ha)
1.	Under Buildings	1.5
2.	Under Demonstration Units	1.0
3.	Under Crops	9.0
4.	Orchards/Agro-forestry	0.4
5.	Others	4.0
6.	CSRC Farm at ARS, Paramakudi	26.0
	Total	41.9

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage							
			Complete				Incomplete			
			Start Date	Completion Date	Plinth Area m ²	Cost	Start Date	Plinth Area	Cost	

1.	Administrative building	ICAR-KVK	30.08.02	31.05.03	365	45 lakhs			
2.	Farmers Hostel		-	-	-	-	-	-	-
3.	Staff Quarters (6)		-	-	-	-	-	-	-
4.	Demonstration units (2)		1.08.04	31.03.05	2153	1.87 lakhs	-	-	-
5.	Any others	-	-	-	-	-	-	-	-

(B) Vehicles, Equipments and AV aids

S. No.	Type of vehicle	Model	Actual cost in Rs.	Total kms run	Present status
1.	Jeep	Bolero-LX	4,96,711	20,726	Good
2.	Two wheeler	Hero Honda CD Deluxe	38,003	700	Good

C) Equipments & AV aids

S. No.	Name of the Equipment	Year of Purchase	Cost	Present condition
1.	Spectrophotometer	2005	75072.00	Good
2.	Flame photometer	2005	36720.00	Good
3.	pH meter	2005	7344.00	Good
4.	Conductivity Bridge	2005	7344.00	Good
5.	Physical balance	2005	28080.00	Good
6.	Chemical balance	2005	91520.00	Good
7.	Water distillation still	2005	26117.73	Good
8.	Kjeldahl Digestion & distillation	2005	24589.00	Good

9.	Shaker	2005	44076.60	Good
10.	Refrigerator	2005	19950.00	Good
11.	Oven	2005	8862.21	Good
12.	Hot plate	2005	1875.60	Good
13.	Grinder	2005	11582.00	Good
14.	Water Purifier	2005	7390.00	Good
15.	Pelicon Digestion & Distillation unit	2005	148086.00	Good
16.	Lab set up	2005	319650.00	Good
17.	Chemicals & Glasswares	2005	249990.00	Good
18.	Petty Items	2005	19913.00	Good
19.	Soil processing	2005	50000.00	
20.	AV Aids Digital Camera	2006	19,990	Good

1.8. A) Details of SAC meeting conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken
	23.02.07	Officials : 9 Farmers : 4		
1.		Dr. C.V. Sairam Senior Scientist, Zonal Coordinating Unit, Bangalore	Requested the AGM, NABARD to Collaborate with training programme in order to provide Micro financial activities to the beneficiaries.	AGM, NABARD, Ramnad was involved in the Sensitization training programme on Marketing and the LDM, IOB was involved in the KVK and NHM training
			Requested to Present the OFT, FLD activities by the individual scientist with respect to their activities during the SAC Annual	The presentation mode will be changed in the forthcoming SAC meeting onwards

			review report presentation.	
			Area under pulses may be increased	FLD farmers of previous year were motivated to sell their harvested produce among the farmers of their village strictly for seed purpose around 40 Kg of pulses (Black gram – Vamban 3) Greengram (VBNGg3) seeds were distributed to the farmers under seed village scheme
			Since Rice fallow pulses is not possible under Rainfed conditions, new technologies may be refined /schemes may be introduced to take the ground water in co-operative movement along with the Dept. of Agrl. Engineering	The collaboration effort will be made to purpose a schemes under the effective utilization of ground water along with the officials of the Department of Agricultural Engineering, Ramanathapuram

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken
2		Th. Khader Mohaideen JDA, Ramnad	There were 256 TANWEP Groups in Ramnad District, the training programmes may be given for them	Vermicompost training was offered to 50 Nos. of farmers of Nainamaraikkan village under TANWEP. The training on cultivation techniques, and Post harvest technology on chilli was given to 200 chilli growers under NHM
			Promoting pre monsoon sowing is essential for the Ramnad district	Farmers were being motivated to follow premonsoon sowing through OFT, FLD, On & OFF campus and under seed village schemes
3.		Dr. M. Ashokan Regional Deputy Director (Veterinary) Ramanad	Fodder Grass may be suggested to meet out the fodder requirements of the Goat and Cattle.	Suitable fodder grass will be identified so as to meet out the needs.
4.		Th. S. Shenba gamurthi Wild Life Warden,	Saline tolerant Green manure crops may be recommended since it improves land productivity	Suitable green manure crop will be identified

		Ramnad		
			Subabul scheme is available in the Department of Forestry, it can be used for the benefits of the farmers and Dr. C.V. Sairam, Senior Scientist, Zonal Coordinating Unit, Bangalore, suggested that the subabul with coconut as intercrop may be tested through OFT because it was proved by CPCRI as excellent result.	The intercropping system as coconut with subabul will be tested under OFT programme
			Improved varieties and technologies may be recommended for Prosopis cultivation	The in-depth discussions have been made to identify suitable technologies.

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken
5.		Th. D. Murali mohen, AGM, NABARD, Ramanathapuram	Training materials like Booklets, folders have to be distributed for the retrieval purpose	Vocational training manuals viz., Mushroom, vermicompost and Food processing were distributed during the vocational training programme. The Valarum Velanmai, Journal cultivation techniques on Amla, Mango, Cashew were distributed to the trainees under NHM training
			Machine free environment has to be introduced. The Demo field cost will be provided by the NABARD	The necessary arrangements will be made
			Rural Innovation Fund will be utilized for the suitable farmers.	The farmers and trainees have been motivated in such a way to utilize the rural innovation fund during the training programmes
6.		Th. T. Soma sundram Farmer, Ramnad	The Govt can supply paddy seed cum fertilizer drill sowing machine to each Panchayat Union office for the benefit of the farmers.	The necessary arrangements will be made
7.		Tmt. V. Vasuki	More dryland technologies	On campus, Off Campus trainings

		Farm Woman Achunthanvayal Ramanathapuram	are needed	will be given during the months of October and November 2007.
			Proper control measures for Rat	FLD on Rat control will be conducted during the year 2007.
			Suitable processing technologies for paddy may be provided so as to avoid wastage and labour constraints	Farmers have been advised to take up uniform sowing during seed village training programme

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken
8.		Tmt. K. Kanitha Farm Woman Muthunal Ramanathapuram	Suitable crops for wasteland	Jatropha seedlings are being supplied to the farmers through DPAP scheme
9.		Th. Josephdas Farmer Muthupettai Ramanathapuram	Jasmine cultivation technologies may be provided periodically and Dr. C.V. Sairam advised to make tie up between the Jasmine growers and NHM	INM and IPM under OFT

Tamil Nadu Agricultural University

Krishi Vigyan Kendra

Coastal Saline Research Centre, Ramanathapuram

Third SAC Meeting (23.02.2007)

The Third Scientific Advisory Committee Meeting of the KVK, Coastal Saline Research Centre, Ramanathapuram was held on 23.02.2007. Dr. C.V. Sairam, Senior Scientist, Zonal Co-ordinating Unit, Bangalore chaired the meeting. Dr. Durai Singh, Programme Co-ordinator, KVK Madurai participated in the programme. Dr. G. Srinivasan Programme Co-ordinator, KVK Ramnad presented the Recommendations and Action taken in addition to the Annual review report of the Last year SAC meeting. Earlier Dr. T. Abdul Razak, Subject Matter Specialist (Agrl. Ento) welcomed the gathering

and the official and non-official members were introduced by the Chairperson. The members were actively involved in the meeting and brought out the fruitful suggestions for the well being of the farmers and the up gradation of the KVK. Finally Dr. A. Sakunthalai, Subject Matter Specialist (Agrl. Extn) proposed the Vote of thanks.

The reporters Mr. K. Ramakrishnan, Assistant Professor (Agrl. Extn) and Dr. M. Baskar, Assistant Professor (Soil Science) helped in the compilation of the proceedings.

The members of the SAC meeting are as follows.

1. Dr. C.V. Sairam, Senior Scientist, Zonal Co-ordinating Unit, Bangalore.
2. Dr. R. Durai Singh, Programme Coordinator, KVK, Madurai
3. Thiru. Khadar Mohaideen, Joint Director of Agriculture, Ramanathapuram.
4. Dr. M. Ashokan, Regional Deputy Director, (Veterinary) Ramanathapuram
5. Th. S. Shenbaga Moorthi, Wild Life Warden, Ramanathapuram
6. Dr. M. Rajamani, Scientist, CMFRI, Mandapam, Ramanathapuram.
7. Th. R. Alagarsamy, Executive Engineer, Department of Agriculture Engineering, Ramanathapuram.
8. Th. R. Elamvazhuthi, Assistant Director of Fisheries, Collectorate Complex, Ramanathapuram
9. Thiru. D. Murali Mohan, Assistant General Manager, NABARD, Ramanathapuram.
10. Thiru. T. Somasundaram, S/o. Thangachamy 45/35, Ramasamy Kothanar East Street, Ramanathapuram .
11. Tmt. V. Vasuki, W/o. Vijayakumar, Achunthanvayal (post) Ramanathapuram.
12. Tmt. K. Kanitha, W/o. E.C.K. Agilan, Mudhunal, Soorankottai (Post), Ramanathapuram dist

13. Thiru. Joseph Das, Muthupet, Ramnad

Action taken and Recommendation of 2006-2007

The Annual action taken report was presented by Dr. G. Srinivasan, Programme Coordinator, KVK, Coastal Saline Research Centre, Ramanathapuram. The presentation focused the following themes.

- The On campus, Off Campus and vocational trainings were conducted on need basis. The duration of the training programmes varies from one day to one week. The farmers, farm women, Rural Youth and SHG members were the beneficiaries of the programmes. In addition to the farmers training, capacity building training to the extension personnels were also conducted with a focus to update their knowledge on the recent emergencies in the Agricultural Research System on regular basis.
- There were 17 courses offered to 485 beneficiaries including farmers, farm women, rural youth and SHG members on various disciplines like crop production, Horticulture, Home Science, Value addition, Plant protection, Mushroom cultivation and composting technologies through On campus training.
- In such a way 45 courses to 1166 beneficiaries and 26 courses to 2132 beneficiaries with respect to Off campus and vocational trainings were organized.
- For extension personnels, 13 courses were offered to 285 officials of the State Department of Agriculture, State Department of Horticulture in Ramanathapuram district. Earlier in consultation with the Joint Director of Agriculture, Ramanathapuram the topics for the training programmes were chosen.
- Linkage training programmes were also conducted with the Line departments, NHM, NGO's and other similar organizations. Under this training, 83 courses were offered to 3412 beneficiaries.
- In continuation to the training programmes, he explained the OFT and FLD activities. Under OFT programme, the crops and technologies were tested under 45 locations on paddy (7), Cotton, Groundnut (16), Blackgram (12), Chilli (5) and Jasmine (5)

- Like wise under FLD programme, the crops and technologies were popularized through 114 demonstrations on Groundnut (35), Green gram (13), Blackgram (13) Cotton (20), Chilli (13), Watermelon (5), Pumpkin (5), Ashgourd (5) and Senna (5)

The presentation also focused and the other popularization mechanisms like Mass media, Advisory services, Diagnostic field visit etc. besides the News letter of KVK, CSRC, Ramnad.

During the Third Scientific Advisory Committee Meeting the official and non official members have discussed about various issues and derived solutions for the same with a focus to prepare Action plan for the year 2007-2008. The recommendations and action taken for the same has been presented here under.

Action taken and Recommendation

S. No	Name and Address	Recommendations	Action will be taken during 2007-2008
1.	Dr. C.V. Sairam Senior Scientist Zonal Co-ordinating Unit Bangalore	1. Requested the AGM, NABARD to Collaborate with training programme in order to provide Micro financial activities to the beneficiaries.	Will be discussed with AGM NABARD while conducting the training programmes.
		2. Requested to Present the OFT, FLD activities by the individual scientist with respect to their activities during the SAC Annual review report presentation.	The presentation mode will be changed in the forth coming SAC meeting onwards.
		3. Area under pulses may be increased	Farmers will be motivated in right way to cultivate pulses as second crop.
		4. Since Rice fallow pulses is not possible under Rainfed conditions, new technologies may be refined /schemes may be introduced to take the ground water in co-operative movement along with the Dept. of Agrl. Engineering	The collaboration effort will be made to propose a schemes under the Effective utilization of Ground water” along with the officials of the Department of Agriculture Engineering, Ramanathapuram.
2.	Th. Khader Mohaideen	● There were 256 TANWEP Groups in Ramnad District, the	Trainings will be provided based on their needs and

	Joint Director of Agriculture	training programmes may be given for them	Resources.
		● Promoting pre monsoon sowing is essential for the Ramnad district	Farmers will be motivated to follow pre-monsoon sowing through OFT, FLD and Trainings.
3.	Dr. M. Ashokan Regional Deputy Director (Veterinary) Ramanathapuram	● Fodder Grass may be suggested to meet out the fodder requirements of the Goat and Cattle.	Suitable fodder grass will be identified so as to meet out the needs.
4.	Th. S. Shenbaga Murthi Wild Life Warden Ramanathapuram	● Saline tolerant Green manure crops may be recommended since it improves land productivity	Suitable green manure crop will be recommended

S. No	Name and Address	Recommendations	Action will be taken during 2007-2008
		● Subabul scheme is available in the Department of Forestry, it can be used for the benefits of the farmers and Dr. C.V. Sairam, Senior Scientist, Zonal Coordinating Unit, Bangalore, suggested that the subabul with coconut as intercrop may be tested through OFT because it was proved by CPCRI as excellent result.	● Since Ramnad consists 88624 ha area under coconut cultivation, it will be tried through OFT and recommended to the farmers.
		● Improved varieties and technologies may be recommended for Prosopis cultivation	The suitable technologies will be identified in collaboration with the Forestry College
5.	Th. D. Murali Mohan AGM, NABARD Ramanathapuram	✱ Training materials like Booklets, folders have to be distributed for the retrieval purpose	✱ Vocational training manuals and folders have been distributed already to the beneficiaries. However the technology based leaflet and folders will be distributed in future.
		✱ Machine free environment has to be introduced. The Demo field cost will be provided by the NABARD	✱ The necessary arrangements will be made
		✱ Rural Innovation Fund will be utilized for the suitable farmers.	● The suitable farmers will be identified and

			recommended for the utilization of Rural Innovation Fund.
6.	Th. T. Somasundram Farmer, Ramnad	The Govt can supply paddy seed cum fertilizer drill sowing machine to each Panchayat Union office for the benefit of the farmers.	The necessary arrangements will be made
7.	Tmt. V. Vasuki Farm Women Achunthan Vayal Ramanathapuram	● More dryland technologies are needed	● Technologies will be recommended through On & Off campus trainings.
		● Proper control measures for Rat	● Integrated Rat control measures will be provided through trainings
		● Suitable processing technologies for paddy may be provided so as to avoid wastage and labour constraints	● The farmers will be motivated to take up uniform sowing in order to use paddy harvester and Thrashing machines.

S. No	Name and Address	Recommendations	Action will be taken during 2007-2008
8.	Tmt. K. Kanitha Farm Women Muthunal Ramanathapuram	● Suitable crops for wasteland	Jatropha / suitable crops will be recommended after analyzing the soil and water qualities.
9.	Th. Joseph Das Farmer Muthupet Ramanathapuram	Jasmine cultivation technologies may be provided periodically and Dr. C.V. Sairam advised to make tie up between the Jasmine growers and NHM	The periodical cultivation technologies will be provided through trainings and OFT.

2. DETAILS OF DISTRICT (2006-07)

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

S. No	Farming system/enterprise
1.	Rainfed rice

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

S. No	Agro-climatic Zone	Characteristics
1.	Sourthen zone	Erratic distribution of monsoon rains

S. No	Agro ecological situation	Characteristics
1.	Ramanathapuram district is situated on the south - eastern coast of the Indian peninsula between 11° & 12° N latitude and 77° 28' & 78° 50' E longitude. Ramanathapuram occupies a total geographic area of 4,68,957 ha with eleven blocks in seven taluks. This district comprises a population of 2,60,365 and 8,75,522 of urban and rural population.	Coastal climate

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Sandy soil	Coarse texture, low fertility	7328
2.	Clay soil	Fine texture, high water holding capacity with water logging	182463
3.	Sandy clay soil	Ideal texture	22138
4.	Alluvial soil	High fertility	43769
5.	Sandy loam soil	Moderately well drained soil	63602
6.	Coastal alluvial soil	Saline	71357
7.	Red soil	High iron and alumina	18390
	Total		408957

2.4 Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (L.MT)	Productivity (Kg/ha.)
1.	Paddy	128893	3.465	2688 – Paddy
			2.311	1792 – Rice
2.	Millets			
	Cholam	2297	0.007	300
	Cumbu	733	0.004	600
	Ragi	1377	0.023	1681

	Maize	69	0.001	1800
	Other Millets	794	0.003	400
3.	Pulses			
	Blackgram	2741	0.0075	275
	Greengram	181	0.0005	250
	Cowpea	727	0.0018	250
	Horsegram	469	0.0011	240
4.	Oil Seeds			
	Groundnut	6970	0.114	1636
	Gingelly	1631	0.004	240
	Sunflower	20	-	-
5.	Sugarcane	269	0.0296	11000
6.	Cotton	4217	0.0744 (L. Bales)	300 (lint)
7.	Coconut	8864	2.036	13125 (nut/ha)
8.	Chillies	18625	-	-
9.	Coriander	816	-	-

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
October 2006	406.6	30.3	28.1	87.3
November	421.5	31.5	30.2	88.6
December	0.0	31.1	29.8	87.9
January 2007	60.8	32.1	30.2	85.9
February	28.7	32.6	30.6	84.9
March	0.0	35.4	33.6	79.8
April	0.0	36.2	34.9	76.9
May	1.2	35.9	35.4	77.1
June	0.0	32.5	30.5	79.5
July	1.0	33.4	31.8	80.2
August	25.2	32.8	31.7	84.6
September	56.8	31.1	30.8	87.2

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	58007	-	-
<i>Indigenous</i>	72888	-	-
Buffalo	3468	-	-
Sheep			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	245334	-	-
Goats	236786	-	-
Pigs			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	2821	-	-
Rabbits	412	-	-
Poultry			
Hens	-	-	-
<i>Desi</i>	335526	-	-
<i>Improved</i>	-	-	-
Ducks	415	-	-
Turkey and others	1311	-	-

Category	Area	Production	Productivity
Fish	-	-	-
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

2.7 Details of Operational area / Villages

S. No	Taluks	Blocks/groups of villages	Major crops & enterprises being practiced	Major problems identified	Identified Thrust Areas
1.	Kadaladi	Block- Kadaladi Villages: Appanur Sayalgudi Sikkal Keelachelvanur Melachelvanur Keela sirupothu Mela sirupothu	1. Paddy	1. Non-availability of short duration varieties 2. Stem borer incidence 3. Leaf folder incidence 4. Ear head bug incidence 5. Blast incidence 6. Zn So ₄ deficiency 7. Low yield	1. Short duration varieties suitable for rainfed ecosystem 2. Integrated Pest and disease management practices to control identified pest problems. 3. Integrated nutrient management practices
			2. Cotton	<ul style="list-style-type: none"> • Stem weevil • Boll worm • Alternate variety for LRA 5166 • Single season crop 	<ul style="list-style-type: none"> • IPM practices to overcome the pest incidence • Introduction of SVPR 2 cotton variety

	Kadaladi		3. Oil seeds <ul style="list-style-type: none"> • Groundnut • Gingelly 4. Pulses <ul style="list-style-type: none"> • Green gram • Black gram • Cowpea 	1. Leaf minor 2. Root grub 3. Yield reduction due to ill filled pod	<ul style="list-style-type: none"> • Gypsum application • INM
			5. Coconut	<ul style="list-style-type: none"> • Eriophid mite • Low yield 	<ul style="list-style-type: none"> • <i>Introduction of suitable biological control measures</i> • INM
			6. Horticulture <ul style="list-style-type: none"> • Chilli • Coriander • Sapota 	<ul style="list-style-type: none"> • Fruit rot • Aphids • Lack of knowledge on cultivation techniques 	<ul style="list-style-type: none"> • Integrated Pest Management for sucking pest
			Enterprises <ul style="list-style-type: none"> • Animal husbandry • Cattle • Goat & sheep rearing 	VII. Enterprise Animal husbandry <ul style="list-style-type: none"> • Foot and mouth diseases • Blue tongue 	Enterprises <ul style="list-style-type: none"> • Important diseases and their control measures • Vaccination
			SHGs	<ul style="list-style-type: none"> • Labour migration • Lack of income generating technologies 	<ul style="list-style-type: none"> • Creating self employment opportunities • Resource based income generating trainings
2.	Kamuthi	Block-Kamuthi Villages <ol style="list-style-type: none"> 1. Kamuthi 2. Abiramum 3. Peraiyur 4. Kovilangulam 	Crop <ol style="list-style-type: none"> i. Paddy 	<ul style="list-style-type: none"> • Low yield • Weed population • Stem borer • Ear head bug 	<ul style="list-style-type: none"> • Varietal introduction • Recommendation of suitable weedicide • IPM for Stem borer & Ear head bug

		5. Perunali 6. Neeravi 7. Ramasampatti	ii. Millets • Maize	Low yield	Introduction of hybrids Improved cultivation techniques to increase the yield
			iii. Oil seeds/ Pulses iv. Groundnut v. Black gram	• Low yield • Leaf eating caterpillar • Root grub • Chaffy pod	• Integrated Pest management to control pest in groundnut gypsum application to get more yield
			vi. Cotton	Suitability of variety Stem weevil	Introduction of new varieties Suitable IPM measure for Stem weevil control
			vii. Sugarcane	• Low yield • Water problem	Introduction of drip cum fertigation
			Horticulture crops	Chilli • Fruit rot	Suitable control measure for the control of fruit rot

				Banana • Low yield • No high yielding • Varieties for fruit purpose • <i>Fluctuations in market price</i>	Improved high yielding varieties for fruit purpose by replacing the local variety (leaf banana)
			<i>Enterprises</i> • Charcoal making • Animal husbandry cattle, goat & sheep rearing	• Animal husbandry • Goat & sheep blue tongue disease	• Suitable control measures for the control of blue tongue disease
			<i>Farm women and SHGs</i>	• Income generating technologies	• Vermi compost • Mushroom production
3.	Muthukulathur	Block-Muthukulathur Villages: 1. Muthukulathur	1. Paddy	• Water logging • Micro nutrient deficiency	• Introduction of non-lodging varieties • INM & micronutrient application

		2. Theriruvveli 3. Thiruvaranam 4. Sampakulam 5. Kodumalur	2. Cotton	Stem weevil	IPM for the control of stem weevil
			3. Millets • Ragi • Kuthiraivali	Low yield	Package of practices
			4. Oil Seeds Gingelly	Phyllody disease	Suitable control measures for phyllody disease
			5. Pulses Black gram	Lack of high yielding variety	Introduction of improved varieties of pulses
			Enterprise Animal husbandry • Goat, Sheep and cattle rearing	- Foot & mouth disease - Blue tongue - Low milk yield	• Vaccination • Improved modern techniques in cattle management • Balanced feed to increase the milk yield
			SHGs	- Income generating technologies	• Vermi compost • Mushroom production

4.	Paramakudi	Block: Parramakudi Villages: 1.Manjapattanam 2.Pambur 3.Mela Ayakudi 4.Elanthaikulam.5. Kamuthakudi 6. Ariyanenthal	Crop Paddy	Paddy • Stem borer • Micro nutrient deficiency	Paddy • IPM in paddy • Micro nutrient application
			Millets Cumbu Ragi Kuthiraivali	Low yield	High yielding varieties
			Blackgram	Lack of suitable varieties	High yielding varieties
			Cotton	Lack of high yielding varieties Boll worm Low price	• Recommending high yielding varieties • IPM for boll worm control • Better marketing techniques

			Sugarcane	<ul style="list-style-type: none"> • water deficit • Lack of knowledge on drip irrigation • Low soil fertility 	<ul style="list-style-type: none"> • Introduction of drip cum fertigation technology • Introduction of daincha as intercrop
			Horticultural crops Chilli Vegetables Banana	Chilli <ul style="list-style-type: none"> • Low organic matter • Marketing • Low yield Banana <ul style="list-style-type: none"> - Low yield - Marketing 	Chilli <ul style="list-style-type: none"> • Azophos application • Grading techniques • Post harvest technologies <i>Banana</i> <ul style="list-style-type: none"> • Introduction of tissue culture banana
			Enterprise • Cattle & goat rearing	<ul style="list-style-type: none"> • Goat • Blue tongue disease 	<ul style="list-style-type: none"> • Goat • Vaccination
			More no. of SHGs	Income generating technologies	<ul style="list-style-type: none"> • Food processing • Vermi compost • Mushroom
		Block-Nainarkoil Villages: 1. Pandiyur 2. Manjakollai 3. Kiliyur 4. Sathirakudi	Paddy	<ul style="list-style-type: none"> • Pest problem (Stem & shoot borer) 	<ul style="list-style-type: none"> • IPM in paddy
			Cumbu	Honey dew diseases	<ul style="list-style-type: none"> • Spray ridomil 2.5 ml in 1 lit. of water
			Groundnut	Root rot ill filled pod	<ul style="list-style-type: none"> • Seed treatment with Bavistin • Gypsum application

			Chilli	<ul style="list-style-type: none"> • Low yield • Fruit rot 	<ul style="list-style-type: none"> • Biofertilizer + Neem cake application to increase nutrient status • Integrated pest and
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					disease management
Paramakudi			Vegetables	Local variety	<ul style="list-style-type: none"> • High yielding and hybrid vegetable will be recommended • Drip irrigation for vegetable cultivation in large scale cultivation
			Banana	Local variety	<ul style="list-style-type: none"> • Introduction of tissue culture banana
			More number of SHGs	Income generating technologies	<ul style="list-style-type: none"> • Food processing • Vermi compost • Mushroom
			Enterprises	<ul style="list-style-type: none"> • Animal husbandry • Cattle goat & sheep management • Blue tongue disease • Low milk yield 	<ul style="list-style-type: none"> • Vaccination • Improved techniques for cattle management to increase the milk yield.
		Block Bogalur	Paddy	<ul style="list-style-type: none"> • <i>Erratic rainfall</i> 	<ul style="list-style-type: none"> • Seed hardening practices to overcome drought
			Groundnut	<ul style="list-style-type: none"> • Root rot • ill filled pods • Low yield due to poor population 	<ul style="list-style-type: none"> • <i>IPM practices</i> • Gypsum application • <i>Seed drill sowing</i>
			Pulses	<ul style="list-style-type: none"> • <i>Low yield due to local varieties</i> 	<ul style="list-style-type: none"> • <i>suggesting high yielding varieties</i>
			Chilli	<ul style="list-style-type: none"> • <i>Lack of knowledge on INM</i> 	<ul style="list-style-type: none"> • <i>Introduction of INM practices</i>

5.	Ramanathapuram	Block - Ramanathapuram Villages Mudhunal Achuthanvayal Etttivayal Perungulam R.S. Madai Block: Thirupullani Villages: Thirupullani Kancchirangudi Kalari Uthiragosamangai Vannangundu	Ramanathapuram Paddy	<ul style="list-style-type: none"> • Non availability of short duration high yielding varieties • Low yield 	<ul style="list-style-type: none"> • Introduction of short duration high yielding salt tolerant varieties RMD (R) 1 & PMK 3) • Seed drill sowing to increase the Yield
			Millets	Low yield	Package of practices
			Oilseeds	Local variety	High yielding varieties
			Gingelly	Low yield	INM
			Groundnut		
			Pulses	Non availability of high yielding varieties	Introduction of high yielding varieties
			Blackgram		
			Greengram		
Cotton	Boll worm	Recommending suitable IPM practices			
Vegetables	Low yield	High yielding varieties			
Chilli	Fruit borer	IPM in chilli			
Mango	<ul style="list-style-type: none"> • Low yield • Low soil fertility 	<ul style="list-style-type: none"> • High yielding varieties • INM 			
Ramanathapuram			Thirupullani Paddy	<ul style="list-style-type: none"> • Non availability of short duration high yielding varieties • Low yield 	<ul style="list-style-type: none"> • Introduction of short duration high yielding salt tolerant varieties (RM96019 & PKM 3) • Seed drill sowing to increase the Yield
			Millets	Low yield	Package of practices
			Oilseeds	Local variety	High yielding varieties
Gingelly	Low yield	INM			
Groundnut					

			<i>Pulses</i> Blackgram Greengram	Non availability of high yielding varieties	Introduction of high yielding varieties
			<i>Horticultural crops</i> <i>Vegetables</i>	Low yield	High yielding varieties
			<i>Enterprises.</i> Animal husbandry Cattle and Goat rearing	Animal husbandry Foot and Mouth Disease Blue tongue disease	Improved disease management practices
			<i>Mushroom production</i>	Low production	Production technologies
			<i>Vermicomposting</i>	Lack of knowledge on commercial production techniques	Improved vermicompost preparation techniques
			<i>Nutritional gardening</i>	Low yield	Hi tech cultivation techniques
			<i>Coir pith composting</i>	Lack of knowledge on preparation techniques	Skill training on compost preparation and its use
			<i>SHGs</i>	Lack of knowledge on self employment opportunities	Need based and resource based training
6.	Thiruvadanai	Block: Thiruvadanai Villages Kadampakudi Pudukudi	<i>Crops</i> Paddy	<ul style="list-style-type: none"> • Stem borer • Low yield due to cultivating local rice varieties 	<ul style="list-style-type: none"> • IPM measures • Introduction of saline resistant short duration variety - RM 96019
			<i>Cotton</i>	<i>Stem weevil</i>	<i>IPM measures</i>
			<i>Chilli</i>	<i>Fruit rot</i>	<i>Suitable control measures for fruit rot</i>
			<i>Enterprises</i>	<ul style="list-style-type: none"> • Cattle-Foot and mouth disease • Goat-Blue tongue 	<ul style="list-style-type: none"> • Effective management practices • Vaccination

				disease	
			<i>SHGs</i>	<i>Lack of knowledge on self employment opportunities</i>	<i>Need and resource based trainings</i>
		Block: R.S. Mangalam Villages Sittanendal & Valamavur	<i>Paddy</i>	<ul style="list-style-type: none"> • Low yield due to poor maintenance of plant population 	<ul style="list-style-type: none"> • Introduction of paddy seed drill sowing
			Vegetable	<ul style="list-style-type: none"> • Low yield due to raising local varieties 	<ul style="list-style-type: none"> • Introduction of high yielding vegetables
			<i>Chilli</i>	Fruit rot disease	<ul style="list-style-type: none"> • Integrated disease management
			<i>Banana</i>	Low yield	<ul style="list-style-type: none"> • Tissue culture banana
			<i>Enterprises</i>	<ul style="list-style-type: none"> • Cattle-Foot and mouth disease • Goat-Blue tongue • disease 	<ul style="list-style-type: none"> • Effective management practices to eradicate foot and mouth disease • Vaccination
			<i>SHGs</i>	<ul style="list-style-type: none"> • Off seasonal activities 	<ul style="list-style-type: none"> • Vocational training
7.	Rameshwaram	Block-Mandapaam Villages 1. Uchipuli 2. Akkamadam 3. Thangachimadam 4. Pirappan valasai 5. Pamban	<i>Crops</i> Coconut	<ul style="list-style-type: none"> • Button shedding • Poor water holding capacity • More saline water 	<ul style="list-style-type: none"> • Micronutrient mix application • Introduction of Drip cum fertigation • Soil moisture conservation techniques • Improved cultivation techniques and varieties
			<i>Jasmine</i>	<i>Poor yield</i> Bud ward	<i>Focusing proper propagation techniques</i> Suitable IPM for bud worm control to increase the quality of flowers

			<i>Betelvine</i>	<i>Low yield Mosaic disease</i>	<ul style="list-style-type: none"> • Improved cultivation techniques • Suitable control measure for mosaic virus
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			<i>Palmyra</i>	<i>Lack of knowledge on its utilisation</i>	<i>Value addition</i>
			<i>Cashew and Sapota</i>	<i>Lack of production technologies and varieties</i>	<ul style="list-style-type: none"> • Improved cultivation techniques and varieties • INM
			<i>Enterprises</i> Jasmine terminal and semi hard wood cutting Palmyra nursery preparation Prawn culture	<ul style="list-style-type: none"> • Lack of Knowledge on semi hard wood cutting preparation and use of mist chamber • Lack of knowledge on alternative jobs. 	<ul style="list-style-type: none"> • Palmyra based value added products. • Training on suitable technologies
			<i>SHGs</i>	<i>Alternate jobs other than fisheries</i>	<i>Suitable need based activities</i>

2.8 Priority thrust areas

S. No	Thrust area
1.	Dissemination of saline and drought tolerant short duration paddy varieties suitable for rainfed situation – RMD (R) – 1
2.	Production of vermi compost to encourage organic cultivation
3.	Area increase under Oil seeds and Pulses (Groundnut, Blackgram and Greengram)
4.	Introduction of high yielding varieties in horticulture

Methodology followed to identify the training needs

- Direct interview method
- Group discussion method
- Case study analysis
- Feed back analysis
- Registration of trainees
- PRA analysis

For farmers

On Campus Training

- ‡ Increasing the training period from 1 week to 1 month
- ‡ Vocational training programmes in order to start self employment activities.
- ‡ Increasing training period for mushroom cultivation.
- ‡ Cultivation techniques on button mushroom
- ‡ Rice and millet based value added products preparation
- ‡ Vermi compost preparation
- ‡ Drip cum fertigation training
- ‡ Modern techniques on Animal husbandry
- ‡ Training on Turkey and Rabbit rearing
- ‡ Nutritional Gardening.
- ‡ Coir composting techniques
- ‡ Marketing techniques in vermicompost and mushroom production
- ‡ Vocational training to unemployed rural youths and issuing of certificates for the training programmes
- ‡ Micro finance for self employment

Off Campus

- ★ Package of practices for paddy, cotton and chilli
- ★ Training on high yielding varieties of pulses
- ★ Installation of demonstration units at each block for drip cum fertigation techniques
- ★ Training on uses of Bio- fertilizers

- ★ INM for coconut
- ★ INM for Jasmine
- ★ Integrated pest and disease management for betelvine cultivation
- ★ Training on cultivation of fruit crops
- ★ Training on self employment activities
- ★ Training to reduce water and fertilizer use
- ★ Waste land development
- ★ Vermi composting and marketing techniques
- ★ Integrated weed management
- ★ INM for groundnut
- ★ Drought management techniques
- ★ Soil sampling

For Extension functionaries

The following training programmes were identified by interview and group discussion method

- ⊕ Coconut cultivation
- ⊕ Wasteland management
- ⊕ IPM in chilli
- ⊕ Jatropha cultivation
- ⊕ Mechanized sowing by seed cum fertilizer drill
- ⊕ Modern marketing techniques
- ⊕ Training on Adoptive Research Trial (ART)
- ⊕ Medicinal plants suitable for wasteland
- ⊕ Nursery management
- ⊕ Chilli cultivation

3. TECHNICAL ACHIEVEMENTS

3.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
7	7	50	50	8	8	74	74

Training				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
276	276	2000	2000	14	13	Entire district	

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Paddy - 2000 kg	Paddy - 1920 kg	Jatropha seedlings – 50000	Jatropha seedlings – 37400

3.B. Abstract of interventions undertaken

Programme 1 – OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Seed/ Plant Protection	Paddy	<ul style="list-style-type: none"> ●Early season drought ●Poor seedling vigour ●Low yield 	Seed coating	Nil	Package of Practices on Paddy	-	Group meetings	Seeds

Programme 2 – OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
2	Weed management	Paddy	Weed Population	Herbicide application	Nil	Weed management in Paddy	-	Group meetings	Sofit, Rifit

Programme 3 – OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
3.	Farm machineries	Rainfed Paddy	<ul style="list-style-type: none"> ● Uneven distribution of Seeds ● Poor germination ● Poor plant populations ● Higher labour requirement ● Low yield 	Mechanized Sowing	Nil	Agricultural Implements	-	Group meetings	Seeds

S. No	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.

Programme 4 - OFT

4.	INM	Coconut	<ul style="list-style-type: none"> ●Poor water holding capacity ●Use of high saline water for inputs ●Improper fertilizer management 	INM in coconut	Nil	-	INM in Coconut cultivation	Group meetings	Fertilizer and Coir piths
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Programme5 – OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
5.	IPM	Cotton	Stem weevil	IPM in cotton	Nil	IPM in Cotton	Nil	Group meetings	Neem cake, Neem oil

Programme 6 – OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD	Title of Training if any	Title of training for	Extension activities	Supply of seeds, planting

					if any		extension personnel if any		materials etc.
6.	Seed/Plant Production	Chillies	Non adoption of seed treatment	Seed treatment in Chillie	Nil	Package of practices on chilli	Nil	Group meetings	Seeds, Bio control agents, Bio fertilizers

Programme 7 – OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
7.	INM	Gingelly	<ul style="list-style-type: none"> ●Low soil fertility ●Low application Of inorganic fertilizer ●Low yield 	INM in Gingelly	-	Package of practices on Chillies	Nil	Group meetings	Fertilizers

Programme 8 – OFT

S.	Thrust	Crop/	Identified	Interventions
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No	area	Enterprise	Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
8.	INM	Jasmine	<ul style="list-style-type: none"> ●Low organic content of soil, ●Poor yield, ●Micro nutrient deficiency in the soil, ●No application of inorganic fertilizer. 	INM in Jasmine	Nil	INM in Jasmine	Nil	Group meetings	Bioagents and fertilizers

Programme 9 –OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
9.	INM	Betelvine	<ul style="list-style-type: none"> ●Low organic matter content of soil, ●Poor yield, ●No application of inorganic fertilizer. 	INM in Betelvine	Nil	INM in Betalwine	Nil	Group meetings	Bio agents and fertilizers

Programme 10 – OFT

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
10..	IPM	Chillies	Aphids and Fruit Borer	IPM in chillies	Nil	IPM in Chillies	Nil	Group meetings	Nil

FLD on Crops other than Oilseeds and pulses

Programme 1 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Varietal evaluation	Rainfed Paddy	<ul style="list-style-type: none"> ● Non availability of drought and saline tolerant variety ● Low yield 	Nil	Varietal evaluation in Paddy under Rainfed situation	Package of production in Paddy cultivation	Package of production in Paddy cultivation	Group meeting	seeds

Programme 2 – FLD

S.	Thrust	Crop/	Identified	Interventions
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No	area	Enterprise	Problem	Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
2.	Varietal evaluation	Rainfed Paddy	<ul style="list-style-type: none"> • Non availability of drought and saline tolerant variety • Low yield 	Nil	Varietal evaluation in Paddy under Rainfed situation	Package of production in Paddy cultivation	Package of production in Paddy cultivation	Group meeting	seeds

Programme 3 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
3.	Farm machineries	Paddy	<ul style="list-style-type: none"> • Improper sowing method • Drought • Excess population • high intensity of weed infestation 	Nil	Mechanized sowing of seed cum fertilizer in Paddy	Agricultural Implements	Nil	Group meetings, village meetings, OFT	Seeds

Programme 4 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
4.	Seed/plant production	Cotton	Lack of knowledge about the importance of seed treatments	Nil	Seed treatment in cotton	Cultivation technology for cotton	Nil	Group and Village meetings	Seeds and chemicals

Programme 5 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.

5.	IPM	Coconut	Pest problems like Rhinoceros beetle, Red palm weevil	Nil	IPM in coconut	IPM in coconut	IPM in coconut	Group meetings	Pheromone trap and Lure trap
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Programme 6 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
6.	Seed treatment, INM	Chillie		Nil	INM in chillie	INM in chillie	INM in chillie	Group meetings	Neem cake, Azophos

Programme 7 - FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.

7.	Varietal evaluation	Water melon	Lack of awareness on high yielding varieties	Nil	Introduction of hybrids in watermelon	Production technologies of watermelon	Nil	Group meetings	seeds
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FLD on Oilseeds and pulses

Programme 1 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	INM	Groundnut	Population reduction upto 20-30% due to root rot/cotton rot, disease incidence	Nil	INM in Groundnut	INM for Groundnut	Nil	Group meetings	Fertilizer and seeds

Programme 2 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
2.	Varietal evaluation	Black gram	<ul style="list-style-type: none"> ●Lack of awareness on high yielding variety ●Non application of biofertilizer and inorganic fertilizer ●No foliar application ●Pest and disease incidence 	Nil	Introduction of latest high yielding variety	Pulses production technology	Nil	Group meetings	Seeds, fertilizers and Planofix

Programme 3 – FLD

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.

3.	Varietal evaluation	Green gram	<ul style="list-style-type: none"> ●Lack of awareness on high yielding variety ●Non application of biofertilizer and inorganic fertilizer ●No foliar application ●Pest and disease incidence 	Nil	Introduction of latest high yielding variety	Pulses production technology	Nil	Group meetings	Seeds, fertilizers and Planofix
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3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oil seeds	Pulses	Commercial crops	Vegetables	Fruits	Flower	Plantation crops	Tuber crops	Total
Varietal Evaluation	2	-	2	-	-	1	-	-	-	5
Seed/Plant production	1	-	-	1	1	-	-	-	-	3
Weed Management	1	-	-	-	-	-	-	-	-	1
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	2	-	1	-	-	1	1	-	5
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-

Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	2	-	-	-	-	-	-	-	-	2
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	1	1	-	-	1	-	3
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
Total	6	2	2	3	2	1	1	2	-	19

A.2 Abstract on the number of technologies **refined** in respect of crops

Thematic areas	Cereals	Oil seeds	Pulses	Commercial crops	Vegetables	Fruits	Flower	Plantation crops	Tuber crops	Total
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Seed/Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-

Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	1	-	-	-	-	-	-	-	-	1
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
Total	1	-	-	-	-	-	-	-	-	1

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-

Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

A.4 Abstract on the number of technologies **refined** in respect of livestock / enterprises

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