

Item No. 01**Chairman's Opening Remarks about KVK****a) Establishment details:-**

S. No	Particulars	Details
01	Name of the KVK	ICAR - Krishi Vigyan Kendra Ramanathapuram
02	Postal address of the KVK	Krishi Vigyan Kendra, Collectorate Complex, SethupathiNagar, Ramanathapuram – 623 503 Tamil Nadu.
03	Telephone number/Fax/email and Web site address of the KVK	Phone : 04576-232639 Fax: 04567-230250 Email : ramnadkvk@tnau.ac.in Web: www.kvkramnad.org
04	Name of the Host Organization	Tamil Nadu Agricultural University
05	Postal address of the Host Organization	Tamil Nadu Agricultural University Coimbatore – 641 003.
06	Telephone number/Fax/email and Web site address of Host Organization	Ph: 0422 - 6611522 Fax: 0422- 6611433 Email : dee@tnau.ac.in Web: www.tnau.ac.in
07	Sanction Order Details	F.No:S(i)/2002-AE-II(Pt.) Feb5,2004 of the Deputy Director General(AE), ICAR, Krishi Anusandhan Bhawan, New Delhi.
08	Name of the Programme Coordinator	Dr. R. Rajasekaran, Ph.D.,
09	Total land area with the KVK in ha.	16.80 ha

Mandate :-

The overall mandate of the KVK is to develop and disseminate location specific technological modules at district level through Technology Assessment, Refinement and Demonstration and to act as Knowledge and Resource Centre for agriculture and its allied activities. The specific activities to carry out this mandate are:

- Conducting on-farm testing to identify the location specificity of agricultural technologies under various farming systems
- Organizing frontline demonstrations to establish production potential of various crops and enterprises on the farmers' fields
- Organizing need based training of farmers to update their knowledge and skills in modern agricultural technologies related to technology assessment, refinement and demonstration, and training of extension personnel to orient them in the frontier areas of technology development.
- Creating awareness about improved technologies to larger masses through appropriate extension programmes
- Production and supply of good quality seeds and planting materials, livestock, poultry and fisheries breeds and products and various bio-products to the farming community.
- Work as resource and knowledge centre of agricultural technology for supporting initiatives of public, private and voluntary sector for improving the agricultural economy of the district.

b) Staff details :-

S. No	Sanctioned Post name	Name of the incumbent	Designation	Discipline	Qualification	Pay Scale	Date of joining	Permanent/ Temporary
01	Programme Coordinator	Dr. R. Rajasekaran	Assistant Professor	Agri. Extension	Ph.D.,	15600 - 39100 + GP 8000	07.03.2016	Permanent
02	Agri. Engineering	Er. I.Seeganpaul	Assistant Professor	Agri. Engineering	M.Tech.,	37400-67000 + GP.9000	23.04.2015	Permanent
03	Horticulture	Dr. C.Rajamanickam	Assistant Professor	Horticulture	Ph.D.,	15600 - 39100 + GP.8000	04.09.2015	Permanent
04	Soil science	Dr. K.Saravanan	Assistant Professor	Soil science	Ph.D.,	15600 - 39100 + GP.8000	11.11.2013	Permanent
05	Pl. Protection (Ag.Ento/Pl.Path)	Dr. J. Ramkumar	Assistant Professor	Agri. Entomology	Ph.D.,	15600 - 39100 + GP.7000	02.05.2013	Permanent
06	Home Science	Dr.S.Arokiamary	Assistant Professor	Home Science	Ph.D.,	15600 - 39100 + GP.7000	08.04.2015	Permanent
07	Agronomy	VACANT	Assistant Professor	-	-	-	-	VACANT
08	Prog.Asst (Comp)/ T-4	Tmt.G.Namagirilakshmi	Programme Assistant (Comp)	Computer Science	B.Sc., (Comp.Sci)	9300-34800 + GP.4400	10.12.2008	Permanent
09	Prog.Asst (Lab Tech.)/T-4	Mr.S.Nagendran	Programme Assistant (Tech)	Agriculture	Dip.in Agri	10000	19.09.2016	Temporary (Cons.)
10	Programme Assistant/ FarmManager	Ms.S.Ashtalakshmi	Farm Manager	Agriculture	Dip. In Agri	10000	12.09.2016	Temporary (Cons.)
11	Assistant	VACANT	-	-	-	-	-	VACANT
12	Jr. Stenographer	Th. N. Gunaseelan	Assistant	Commerce	B.Com	5200-20200 + GP.2800	22.10.2007	Permanent
13	Driver	Th. M.Gurumoorthy	Driver	-	-	5200-20200 + GP.2400	04.03.2016	Permanent
14	Driver	Th.R.Siddharthan	Supervisor	-	-	9300 – 34800 + GP.4200	16.06.2014	Permanent
15	Supporting staff	Th.R.Muthukrishnan	PUSM	-	-	4800-10000 + GP.1300	28.07.2016	Permanent
16	Supporting staff	Tmt. T. Dhanavalli	PUSM	-	-	4800-10000 + GP.1300	16.09.2010	Permanent

Constitution of SAC and self introduction by SAC members and invitees

The following is the constitution of Scientific Advisory Committee Meeting

SI.No	Particular	Name & Designation
1	Vice Chancellor	Dr. K. Ramasamy, Vice Chancellor, Tamil Nadu Agricultural University, Coimbatore.
2	Zonal Project Director Zone VIII Bangalore	Dr. Sreenath Dixit Director, ATARI, Zone VIII MRS-HA Farm Post, Hebbal, Bangalore.
3	Director of Extension	Dr. H.Philip, Director of Extension Education(i/c), Tamil Nadu Agricultural University, Coimbatore.
4	Director/Head of the nearest ICAR Institute	Dr.A.K.Abdul Nazar Scientist incharge, CMFRI, Mandapam Camp, Ramanathapuram Dist.
5	Director of Research	Dr. M. Maheswaran, Director of Research (i/c), Tamil Nadu Agricultural University, Coimbatore.
6	Department of Agriculture	Th. R.Harivasan, Joint Director of Agriculture, Ramanathapuram
7	Department of Horticulture	Th. S. Tamil Vendhan, Deputy Director of Horticulture, Ramanathapuram
8	Department of Agricultural Engineering	Er. S. Mohammed Ali, Executive Engineer (AED), Ramanathapuram

9	Department of Animal husbandry	Dr. T. Mohan, Joint Director of Animal husbandry, Ramanathapuram
10	Department of Fisheries	Th. P. Issac Jayakumar Deputy Director of Fisheries Ramanathapuram
11	District Industries Centre	Tmt.P. Mariammal General Manager, District Industries Centre, Ramanathapuram
12	Project Director ATMA	Th. S. M. Uduman Mohideen, Deputy Director of Agriculture (FTC) & Nodal Officer ATMA, Paramakudi
13	Lead Bank Official	Th. K. S. SURESH BABU Lead Bank Manager, IOB, Ramanathapuram
14	NABARD	Th. S. MATHIAZHAGAN District Development Manager, NABARD, Ramanathapuram
15	All India Radio	Programme Executive, AIR, Madurai
16	Doordharshan Kendra	Station Director, Doordharshan Kendra Madurai
17	Two representatives from farmers (Male)	Mr.K.Jahir Hussein S/o. Kasim Thinaikulam, Thirupullani block Ramanathapuram
18		Mr.T.Siva S/o. Thavasi Vazhuthur, Mandapam block Ramanathapuram

19	Two representatives from farm women (Female)	Mrs.M.Maragathammal W/o. Murugesan Pukkulam , Thirupullani block Ramanathapuram
20		Mrs. K.Jayamani W/o. Kannusamy Peraiyur , Kamuthi block Ramanathapuram
21	Professor and Head	Dr.N.Sathiah Professor and Head Coastal Saline Research Centre Ramanathapuram
22	Programme Coordinator	Dr. R. Rajasekaran Programme Co-ordinator, ICAR – Krishi Vigyan Kendra, Ramanathapuram.

.Action taken report on the previous SAC meeting

S. No	Recommendation	Proposed By	Action taken (to be Quantified)
1	Assessment of Drought resistant short duration rice variety and TRY-3 has to be introduced	Vice Chancellor, Tamil Nadu Agricultural University, Coimbatore.	<ul style="list-style-type: none"> Seeds of new short duration fine grain paddy varieties viz., CO(R) 51 (10 farmers in Muthuchellapuram village during 2015-16) and TRY 3 (5 farmers from A.Puttur, Ariyakudi and Pandikanmai of Bogalur block during 2013-14) were distributed and demonstrated through FLDs.
2	Linkage should be made for introducing CO-4 to the beneficiaries of Dept. of Animal Husbandry		<ul style="list-style-type: none"> CN fodder grass (CO4 and CO5) component is included in IFS Special Programme. Fodder bank has been established in new KVK Administrative Building. CO 4 slips were supplied to the five farmer in Mandapam block during 2015-16.
3	Recording of mini portable sprinkler should be made in Tamil		<ul style="list-style-type: none"> Dubbing script has been recorded and ready for release as CD.
4	Large scale adoption of Harvester termite in coordination with line department.		<ul style="list-style-type: none"> Chemical control measures and easy application tools are being demonstrated through Frontline Demonstration. Management strategies also disseminated through various trainings conducted by KVK & ATMA.
5	Introduce Silos for dry fodder and Straw blocks preparation		<ul style="list-style-type: none"> Training has been conducted on Silage making with co-ordination of Reliance Foundation.
6	Training on Calf Rearing should be imparted.		<ul style="list-style-type: none"> The Training on calf rearing is included in the veterinary training programme. Animal camp has been conducted at Melamadai on

			14.07.2016 under NICRA scheme. Totally 110 livestock has been benefitted in this camp vaccination and deworming also given to the calf.
7	Polythene lining in farm pond to be introduced		<ul style="list-style-type: none"> Instructed farm pond assess under NICRA scheme about polythene lining in farm pond for efficient use of stored rainwater from farm pond under special programme utilizing Mini Portable Sprinkler.
8	Mr.Ramu, Milky mushroom producer of Thiruvadanai can be used as Resource person in TNAU		<ul style="list-style-type: none"> On & Off campus trainings were conducted on Milky mushroom production by KVK utilizing Mr.Ramu as a resource person. The training details are given below. The Off campus training is conducted at Kancharangudi village on 29.04.2015 during 2015-16. Totally 18 farmers were participated in Kancharangudi village. The Off campus training is conducted at Peraiyur village on 24.06.2015 during 2015-16. Totally 22 farmers were participated in Peraiyur village. The On campus training is conducted at KVK, Ramanathapuram on 14.06.2016 during 2016-17. Totally 80 farmers were participated and benefitted.
9	Importance Should be given for IFS	Zonal Project Director, Zone –VIII,	<ul style="list-style-type: none"> New components of fodder cultivation, vegetable seeds,

		Bangalore.	honeybee hives and turkey have been introduced in IFS by the KVK Ramanathapuram. Th.Siva farmer from Vazhuthur and Th. Arivazhagan from Valantharavai develop the IFS farm with key inputs from KVK.
10	Importance should be given for Trainings		<ul style="list-style-type: none"> • Training has been imparted in all aspects of crop production, protection & post harvest in Agriculture, Horticulture and allied activities during 2014-2015, 2015-16. The trainings details are given below. 2014-15 On Campus – 13 No. of participant farmers – 397 Off campus – 17 No. of participant farmers – 474 2015-16 On Campus – 8 No. of participant farmers – 220 Off campus – 17 No. of participant farmers – 419
11	Training on Millet production & processing should be given		<ul style="list-style-type: none"> • Conducted two on campus training on value added products from millets on 14.05.2015 and 30.11.2015. For each training 15 and 25 farmers and self help group women were participated. • Two off campus training on value addition in millet was conducted at Peraiyur and Pukkulam on 24.06.2015 and 19.10.2015 respectively. Totally 18 farmers and SHG women were participated in Peraiyur and 25

			<p>farmers and SHG women were participated in Pukkulam village.</p> <ul style="list-style-type: none"> • An off campus training on improved cultivation practices of ragi was conducted at Peraiyur on 29.01.2016. totally 20 farmers were participated. • An Off campus training on method demonstrations of millet machineries was conducted at Kadaladi on 03.06.2016. Totally 32 SHG women were participated.
12	Demonstration of Honey bee rearing, Vermi composting, Mushroom production at farmer's field should be given	Mr.Mohammed Noorulla, Thirupulani	<ul style="list-style-type: none"> • Training cum method demonstration has been conducted on mushroom production, honey bee rearing and vermicomposting in farmers field. Training on honey bee rearing was conducted in collaboration with Department of Horticulture, Ramanathapuram at KVK, Ramnad on 24.09.2015. Totally 25 farmers were participated at KVK, Ramnad and 10 honeybee hives and 4 honeybee extractor given to the 5 numbers of participatory farmers. The participatory farmers are given below. • Th.MohamedNoorulla, Perungudi • Th.Siva, Vazhuthur • Th.Sivakumar, Valanthuravai
13	Training on Seed Drill sowing should be given to farmers.	Mr.A.Shanmugam, A.Puttur	<ul style="list-style-type: none"> • Training cum Demonstration on maintenance and effective functioning of tractor drawn seed

			<p>drill and roto till seed drill has been imparted to farmers, tractor drivers and rural youth during 2014-15. The FLD on the demonstration of roto till seed drill has been conducted during 2015-16 in 10 farmers' fields at Muchuchellapuram in addition to a demo in Pre Kharif Mela on 24.08.2015.</p>
14	<p>Training on Soil Sampling and Seed hardening should be given to farmers of Muthukulathur block.</p>	<p>Mrs.Sesu Mary Muthukulathur</p>	<ul style="list-style-type: none"> • Training on Soil Sampling and Seed hardening to farmers of Muthukulathur and Training on Soil Sampling to farmers of Melamadai, Thirupullani block, Ariyakudy, Manchakollai and Muthuchellapuram of Bogalur block and college students of Keezhakarai under NSS programme have been executed during 2014-16. The significance and procedure of soil testing were emphasised during world soil day celebration among 192 participants at Muthuchellapuram on 5.11.2015.
15	<p>Drip for jasmine should given in Subsidy.</p>	<p>Mr.MaheshKumar Thangatchi madam</p>	<ul style="list-style-type: none"> • Since being a policy matter the suggestion has been recommended to the Deputy Director of Horticulture, State Department of Horticulture, Ramanathapuram.

Overall progress report and action plan for forthcoming season**Agro climatic zone**

1.	Agro climatic region and zone	East coast Plain & Hills District – South coast , Tamil Nadu region (Zone II)		
2.	Rainfall (mm)	Year	Average	Actual
		2013	827	800.1
		2014		1349.5
		2015		978.75
		2016		160 (upto Oct'2016)

Geographical details

Ramanathapuram district has a long coastline of around 260 km. The coastal areas are flanked by Beach ridge complex-sand dunes, swamps and backwater. The sand flat is another feature of the coast comprising of clays and silts, often inundated by seawater and encrusted with salt. This district is bounded on the north by Sivagangai and Pudukottai districts, on the east and south by the Bay of Bengal, and on the west by Thoothukudi and Kamarajar districts. The district headquarters is located at Ramanathapuram.

Geographical area	4, 08, 957 ha
Latitude	9° 05' - 9° 56' N
Longitude	78° 13' - 79° 26' E

Weather

The district has a tropical climate and is hot and dry. The weather is pleasant during the December & January. Usually mornings are more humid than afternoons.

Rainfall

The mean annual rainfall of the district is 827 mm with Summer, South West monsoon, North east monsoon and winter contributing 14, 17, 60 and 9 per cent of the total rainfall, respectively.

Temperature

The district has tropical climate. The mean temperature ranging from 22.3°C to 37.8°C.

Relative Humidity

The relative humidity of the district is on an average between 79 and 84%.

Taluks of the district

Ramanathapuram district comprises of seven taluks viz.,Kadaladi, Kamuthi, Muthukulathur, Paramakudi, Ramanathapuram, Rameswaram and Thiruvadanai

S.No	Name of the Taluk	Total area (ha)	Taluk HQ
1.	Paramakudi	73794	Paramakudi
2.	Rameshwaram	9048	Rameshwaram
3.	Ramanathapuram	77499	Ramanathapuram
4.	Thiruvadanai	81461	Thiruvadanai
5.	Mudhukulathur	48085	Mudhukulathur
6.	Kadaladi	61223	Kadaladi
7.	Kamuthi	57847	Kamuthi
	Total	4,08,957	-

Details of revenue villages, panchayats&hamlests of the district

In Ramanathapuram District there are 11 Blocks viz., Kadaladi, Kamuthi, Muthukulathur, Bogalur, Nainarkoil, Paramakudi, Ramanathapuram, Thiruppullani, Thiruvadanai, R.S.MangalamandMandapam.

S.No	Name of the block	Total no. of revenue villages	Total no. of Panchayats	Total no. of hamlets
1.	Ramanathapuram	25	25	120
2.	Paramakudi	34	39	163
3.	R.S.Mangalam	41	35	325
4.	Thiruvadanai	57	47	310
5.	Kamuthi	49	53	346
6.	Nainarkoil	36	37	113
7.	Bogalur	23	26	91
8.	Mudukalathur	38	46	169
9.	Kadaladi	53	60	285
10.	Thirupullani	25	33	240
11.	Mandapam	19	28	200
	Total	400	429	2362

Soil type of Ramanathapuram district

The soils of Ramanathapuram district can be assorted into the main types viz., clay, coastal alluvium, sandy loam, alluvium, sandy and red soil, clay and black cotton soil and the same were believed to have been derived from the Archaen gneisses where calcareous formation are abundant. Calcium carbonate concretions of various sizes and shapes are present in majority of the black soil area and this affects the fertility of the soils. Clay soil, as a whole, constituted about 45 per cent of the total soil. River alluvium includes alternate layers of sand and clay for a huge thickness. River alluvium occurs in areas bordering the Vaigairiver. Coastal alluvium occurs in Kadaladi, R.S.Mangalam, Mandapam, Ramanathapuram, Thiruppullani and Thiruvadana blocks. There are vast stretches of saline and alkaline soils found in the coastal blocks. Rameswaram Island contains mainly sandy soil. The fertility status of soil showed that nitrogen status of soil is low in all blocks and phosphorus status of soil is also low in all blocks with the exception of Thiruppullani, Kamudhi and Kadaladi blocks where it is medium. The potash content of soil is high in all the blocks. The mineral resources of the soil include gypsum, limestone and magnesium. While Mudukulathur and Keelakarai regions account for sizable deposits of gypsum, Rameswaram Island contains large quantities of limestone deposits.

It could be noticed from the table that about 45 percent of the area is clay soil followed by coastal alluvial soil (17.45 percent), sandy loam soil (15.54 percent) and alluvial soil (10.70 percent) in that order.

Distribution of Soil Type in Ramanathapuram District (in hectares)

S.No	Soil Type	Area	Percentage
1	Sandy soil	7328	1.79
2	Clay soil	182463	44.52
3	Sandy clay soil	22138	5.40
4	Alluvial soil	43769	10.70
5	Sandy loam soil	63602	15.54
6	Coastal alluvial soil	71357	17.45
7	Red soil	18390	4.50
	Total	408957	100.00

Area under different Problem Soil Categories

In spite of alluvial soil present in the district, scenario of agricultural production is not showing an encouraging trend because of prevalence of problem soils. Out of 2,06,290 ha. of area, about 54.42 percent alone could be considered as normal soil, 29.28 percent as moderately acidic and 12.40 percent as moderately alkaline soil types.

S.No	Details of soil	Area	Percentage
1	Normal soil (pH7.5 – 8.5)	112263	54.42
2	Moderately alkaline soil (pH 8.6 – 9.0)	25589	12.40
3	Alakaline soil (pH >9.0)	691	0.33
4	Moderately acidic soil (pH 6.0 – 6.5)	60399	29.28
5	Acidic soil (pH > 6.0)	1614	0.78
6	Moderately Saline (EC 1.0 -3.0)	2121	1.04
7	Saline Soil (EC > 5.0)	3613	1.75
Total		2,06,290	100.00

Major cropping pattern of Ramanathapuram district

In Ramanathapuram district mainly rice based cropping system was followed. The major crops and the cropping systems are given below

- ✓ Rainfed rice –Fallow
- ✓ Rainfed rice – Cotton
- ✓ Rainfed rice – Gingelly
- ✓ Rainfed rice – vegetable
- ✓ Semi dry rice – fallow
- ✓ Rainfed - Chilli
- ✓ Groundnut - fallow
- ✓ Groundnut -vegetable

Area under major crop and their production and productivity (2011-12)

S.No	Major crop	Area (ha)	Production (mt)	Productivity (kg/ha)
1.	Paddy	13140	365000	2760
2.	Millets	4296	8192	1320
3.	Pulses	4243	2192	550
4.	Groundnut	4516	4732	2012
5.	Cotton	2022	1668	825
6.	Coconut	9046	14000 nuts / ha	1266 lakh nuts
7.	Chilli	21461	1737	810
8.	Coriander	1910	485	254

Major thrust areas

- Dissemination of saline and drought tolerant, high yielding rice varieties suitable for rainfed situation
- Weather based agro advisory service for major crops in Ramanathapuram district.
- Improve the soil fertility by soil breeding.
- Management practices to overcome water logging and salinity conditions of rice cultivation
- Enhancing the productivity of pulses and groundnut by adopting improved production technologies.
- Popularizing the coconut tonic to maximize yield in coconut.
- Focus may be given to conserve the ground water by adopting water harvesting methods such as formation of farm ponds, check dams etc.
- Improve the livelihood of farming community through popularizing the allied enterprises viz., backyard poultry, slatted goat rearing and mushroom production, low cost vermicomposting, enriched farm yard manure and coir composting.

ii) Details of problems and thrust areas (2013-14)

Sl. No.	Name of the operational village	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Arasanur, Vagavayil, Aathankudi, Muthnal, Kalari, Melamadai, Thirupullani block	Rice	Yield reduction due to salinity and alkalinity Use of saline water for irrigation	Problem soil Management in Ramanathapuram district by introduction of TRY 3 rice variety.	FLD
2.	Muthnal, Sirangikottai, Chinnaagrimesi, Nainarkoil block	Rice	Labour shortage	Popularization of Machine planting in rice	FLD
3.	Ramanathapuram Kalari, Melamadai, Thirupullani block	Rice	Drought	Popularization of PPFM to Mitigate Drought in Rice Crop.	FLD
4.	Thiruvadanai, Athiyur, Kiliyur, Mangalakudi, Kadangudi	Rice	blast incidence in rice	Demonstration of TNAU PF1 liquid formulation for the management of Rice blast.	FLD
5.	Kamuthi Cheyyamangalam, Alangarpatinam	Cumbu	Lack of awareness on high yielding varieties suitable for processing and low yield due to drought	Introduction of Cumbu Co(Cu)9	FLD
6.	Thinaikulam, Kavalkaranvalasai, Nabiyanvalasai, Thiupullani block Pandiyur, Chithanantheal, Nainarkoil block	Ground nut	Lack of knowledge on micronutrient management Low yield due to micro nutrient deficiency	Introduction of TNAU MN mixture for rainfed groundnut	FLD
7.	Chinnaagrimesi, Kangaikoddan, Nainarkoil block Thinaikulam, Thirupullani, Thirupullani block	Gingelly	Non availability of quality seed of high yielding variety Non adoption of Integrated nutrient management	Integrated Crop Management in white gingelly (SVPR 1) synergized with value addition	FLD
8.	Manjur, Pandikanmai, Pottithatti Bogalur block	Water melon	Lack of awareness on improved technologies	Integrated Crop Management Practices in watermelon	FLD
9.	Manjalkollai, Kakanenthal, Karuthanenthal Bogalur block	Bhendi	Low yield and lack of awareness of high yielding varieties and hybrids	Introduction of Bhendi hybrid COBhH 1	FLD
10.	Theyanoor, Thennavanoor, Ettivayal Bogalur block	Vegetable cowpea	Low yield and lack of awareness of high yielding varieties and hybrids	Introduction of vegetable cowpea PKM 1	FLD

Sl. No.	Name of the operational village	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
11.	Kamuthi block, Cheyyamangalam, Alangarpatinam	Sorghum	Lack of awareness on high yielding varieties suitable for fodder and processing. low yield due to drought	Varietal Introduction of CO-30 & Value addition	FLD
12.	Mandapam, Kamuthi & Ramnad blocks	Poultry	Low body weight and poor egg production in desi birds	Popularization of Rodhowwhite, vanaraja & gramapriya dual breed chicks	FLD
13.	Thiruvanadi & R.S.Mangalam blocks	Rice	Low yield due to drought in paddy cultivation	ICM in paddy viz., PPFM spray, Bacterial consortia (P7+B30+G1) & 1% KCL spray	OFT
14.	Rasasingamangalam, sanaveli, solanthur, kavanoor, Avarenthal, Thirupalaikudi	Rice	Leaf folder incidence	ETL based spraying of Profenophos 50 EC @ 2ml/lit & Chlorantraniliprole 20 SC @ 0.3ml/lit	OFT
15.	Thirupullani & Bogalur blocks	Rice	Lack of knowledge on high yielding hybrids	Replacement of blast susceptible variety BPT 5204 by supplying rice hybrid CO 4, ADT-49 & DRRH-3	OFT
16.	Perungulam, Vaniyankulam, Indira nagar, Erattaioorani, Thamaraiikulam - Mandapam block	Coconut	Under utilization of interspaces in coconut gardens	Inter cropping in coconut garden (below 5 years of age)	OFT

b. Details of target and achievements of mandatory activities

1. OFT				2. FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6	6	32	32	12	12	100	100
3. Training				4. Extension Programmes			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
50	32	800	751	400	400	616	616
5. Seed Production (Qtl.)				6. Planting materials (Nos.)			
Target		Achievement (q)		Target		Achievement	
RMD (R)-1		2		Chilli seedlings – 20000		10000 seedlings for Rs.3000/-	
Anna -4		1.2		Tuberose bulbs – 100 kg		60kg bulbs for Rs.3900/-	
TRY (R) -3		0.7					
7.Livestock, poultry strains and fingerlings (No.)				8. Bio-products (Kg)			
-				-			
Target		Achievement		Target		Achievement	
-		-		Vermicompost – 5 tons		5 tons	

c). Major outcome of Technology Assessment and Refinement (in bullet form only) (2013-14)

- **Assessment of insecticide for the management of rice leaf folder:**

The average paddy yield of 2918 kg/ha was recorded in chlorantraniliprole -20 SC sprayed field followed by 2529 and 2144kg/ha recorded in profenofos 50 E and farmers practice respectively. The highest BC ratio of 1.85 also recorded in chlorantraniliprole sprayed field.
- **Assessment of Redgram as intercrop in millet based cropping system:**

The average yield of bajra & sorghum was 900 kg/ha and 950 kg/ha respectively. The BCR was 1.70 & 1.41 respectively. Complete failure of redgram due to poor rainfall.
- **Assessment of different management strategies to mitigate drought in paddy:**

No difference in plant height. PPFM application and Bacterial consortia application gave equivalent yield than check. And feedback from the farmers is PPFM spray and Bacterial consortia application in rice crop promising the crop yield.
- **Assessment of rice hybrids for higher yield and alternative to BPT 5204:**

TO 1- BPT 5204 (ANGRAU). And feedback from the farmers is TNAU rice hybrid CoRH 4 (TO-2) performed well in terms of yield and return. Refinement needed is Supply of hybrid's seeds at less cost and improved fertilizer nutrient supply.
- **Assessment of intercropping in coconut garden (below 5 years of age):**

Moringa Crop was sown in August 2013 & Cowpea Crop was sown in October'2013. The crop failed due to low rainfall at Mandapam block.
- **Assessment of Redgram as intercrop in millet based cropping system:**

The average yield of bajra & sorghum was 900 kg/ha and 950 kg/ha respectively. The BCR was 1.70 & 1.41 respectively. Complete failure of redgram due to poor rainfall.
- **Performance assessment of Redgram varieties and cooking quality for value addition:**

Short duration nature of VBN 2 has been preferred by the farmers when compared to the long duration Co (Rg) 6.

**d). Major outcome of Frontline Demonstrations (in bullet form only)
(2013-14)**

- **Demonstration of TNAU PF1 liquid formulation for the management of rice blast:**
The PF1 sprayed paddy field recorded the yield of 29.10 q/ha , whereas it is 24.30 q/ha – PF1 formulation is cost effective when compared to tricyclozole fungicide.
- **Introduction of TNAU MN Mixture for rainfed groundnut (TMV 7):**
The MN mixture applied field recorded 24.6 no. of pods /plant and it is 18 in check plot. The BCR also high in demo plot (1.66) when compared to check (1.34)
- **ICM in Cumbu Co (cu)9:**
The average yield of cumbu Co (cu)9 was 11.75 q/ha. Whereas the yield of local variety cumbu was 9.66 q/ ha.
- **Demonstration of Sorghum variety(Co-30) and value addition:**
The average yield of sorghum Co 30 was recorded as 13.80 q/ha. This yield was higher than the local variety (10.72 q/ha).
- **Integrated Crop Management in watermelon:**
High yielding watermelon hybrid MHW 6 was introduced. Application of ethrel and IIHR vegetable special which increases the fruit set and recorded the yield of 18.86 t/ha.
- **Integrated Crop Management in white gingelly:**
Low yield due to monsoon failure. Preference of SVPR 1 due to white seed.
- **Popularization of Rodhowwhite, Vanaraja & Gramapriya dual breed chicks:**
Dual breed Rhodowwhite chick was introduced for backyard poultry units. On 7th month the average body weight of 1.6 kg/chick was recorded. The only drawback of the introduced dual breed chicks are they never sit for natural incubation or brooding.
- **Introduction of Cumbu Napier fodder grass:**
Cumbu Napier CO (CN)-4 fodder grass was introduced to overcome the green fodder shortage. About 40,000 CO-4 slips was supplied to the farmers in Periyapattinam, Kalugoorani, Panjanthangi and Atrankarai villages.

- **Integrated Crop Management in Chilli:**

Seed treatment with *Trichoderma viride* (4 gm/kg of seed) and installation of pheromone traps @ 12 nos/ha along with release of *T.chilonis* @ 2.5 cc/ha (4 times from 30 DAT), need based spraying of NSKE @ 5% reduces fruit borer menace in mundu chilli.

- **Integrated farming system (IFS):**

Integrated farming system was demonstrated in Thiruppulani block. The components incorporated are annual moringa, Cumbu Napier (CO-4) fodder grass, azolla, farm pond, poultry (Namakkal chicks) & low cost vermibag. From the farm pond the farmer Thiru. Durairaj harvested 200 kg of fish and earned Rs. 6000/-. Thiru. Iyub Khan, constructed slatted floor goat unit. He is harvesting Cumbu Napier (Co-4) fodder grass and utilized them for cattle unit.

e). Details of Training Programmes conducted

Activities carried out during the period 2013-2014

Category	Major thematic areas covered	No. of courses	No. of participants
On campus	Integrated Crop Management, Value addition, Women empowerment Integrated Pest Management Livestock Production and Management, Soil Health and Fertility Management, Crop Production, Farm machinery and its maintenance.	8	195
Off campus	Production and use of organic inputs, Integrated Pest Management, Productivity enhancement in field crops, stress management, use of seed drill sowing, VDK and DSSIFER, green house production, Livestock feed and fodder production, Nutrition and Food Security.	12	298
Extension personnel	Food preservation and value addition, New technology invention	3	58
Rural youth training Programmes	Mushroom cultivation, azolla production, New technology invention	4	98
Vocational Programmes	Commercial vegetable production, Vermi compost and Value addition, Mushroom production	5	97

f) Extension Programmes conducted

Category	No of Programmes	No of farmers	No .of Extension Personnel
Advisory Services	120	209	32
Diagnostic Visits	15	31	-
Field Day	2	175	3
Scientists' visit to farmers field	82	101	-
Method Demonstration	25	176	22
Celebration of important days	-	-	-
Exposure visits	1	25	-

g) Major extension activities (2013-14)

Extension Activity	No. of activities	Participants		
		Farmers	Extension Functionaries	Total
Advisory Services	120	209	32	241
Agri mobile clinic	-	-	-	-
Animal Health Camp	1	45	-	45
Awareness Campaign	1	Mass		
Celebration of important days	-	-	-	-
Diagnostic Visits	15	31	-	31
Exhibition	-	-	-	-
Exposure Visits	1	25	-	25
Ex-trainee Sammelan	-	-	-	-
Farm Science Club	-	-	-	-
Farmers rally	-	-	-	-
Farmers Visit to KVK	-	540	60	600
Field Day	2	175	3	178
Film Show	-	-	-	-
Group discussion	25	139	-	139
Group meeting	3	115	-	115
Kisan Ghosthi	-	-	-	-
Kisan Mela	-	-	-	-
Lecture delivered	25	420	-	420
Mahila Mandal conveners' meeting	-	-	-	-
Method Demonstration	22	176	22	198
Scientists' visit to farmers field	82	101	-	101
Seed treatment / Replacement campaign	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-
Seminar	-	-	-	-
Soil health Camp	-	-	-	-
Workshop	-	-	-	-
Technology Week	-	-	-	-
Others if any (Pl.specify)	-	-		

h) Other extension activities (2013-14)

Particulars	Number
Animal health camps	1
Phamlets	1
Booklets	3
Books	-
Electronic media	1
Extension Literature	4
Leaflets/folders	11
News letter	-
News paper coverage	23
Popular articles	-
Radio Talks	5
Soil health camps	2
Technical Articles	7
Technical Bulletins	8
Technical Reports	3
TV talks	2
Women Health Camps	-
Others if any (Pl. specify)	-

i) Production and supply of technology products

Category	Major crops /livestock/ fisheries strains / bio-products produced and supplied	Quantity (q)	Value (Rs.)	Number of farmers
Seed Materials – Varieties (Quintal)	RMD (R) 1	2	1600	5
	Anna -4	1.2	960	6
	TRY (R) -3	0.7	560	5
Seed Materials –Hybrids (Quintal)	-	-	-	-
Planting Materials – Varieties (Number)	Chilli (Ramnad mundu)	10000 seedlings	3000	12
Ornamental plants	Tuberose (Prajwal)	60 kg	3900	5
Planting Materials – Hybrids (Number)	-	-	-	-
Livestock Materials (Number)	-	-	-	-
Fingerlings (Number)				
Bio Products (kg)	Vermicompost	5000 kg	30000	36

j) Convergence and linkages (2013-14)

Sl.No	Organization	Type of linkage
1	ICAR Institutions <ul style="list-style-type: none"> • CMFRI • ICAR KVK's 	<ul style="list-style-type: none"> • For organizing linkage training programmes • For TOT tie-up
2	State Agricultural University and Research Centre, Plant Clinic Centre and KVK's	<ul style="list-style-type: none"> • Exchange of experts as resource person for training programme • For updating research establishment in the respective field so as to meet out the needs the beneficiaries
3.	State Department of Agriculture	<ul style="list-style-type: none"> • To organize collaborative training programme • Capacity building training to the extension functionaries • Joint diagnostic survey, participation in meeting
4.	State Department of Horticulture	
5.	State Department of Fisheries	
6.	State Department of Animal Husbandry	
7.	State Department of Forestry	
8.	Soil Test Laboratory of different places	
9.	NGO's <ul style="list-style-type: none"> • RWDF • DHAN Foundation • Community Development Centre • Mohammed Sathak Polytechnic • Seyathu Ammal Trust 	<ul style="list-style-type: none"> • Co-ordinating training programme organized by KVK • Expert lecture • Method demonstration
10.	Banking sectors <ul style="list-style-type: none"> • NABARD (AGM) • IOB 	<ul style="list-style-type: none"> • To share knowledge on financial availability in order to equip the self employment activities of the trainees • To give training to the

	<ul style="list-style-type: none"> • LDM of IOB • UCO Bank, DCCB • Pandiyan Grama Bank 	<p>beneficiaries of banking sectors.</p> <p>To adopt villages</p>
11.	<p>Other Rural Development Agencies</p> <ul style="list-style-type: none"> • DPAP • DRDA • NAWPRA, Panchayat Raj Institution • NADP • NICRA • ATMA • TN-IAMWARM 	<ul style="list-style-type: none"> • To provide location based training to the beneficiaries • Transfer of technology purpose • To reduce the area under wasteland • Construction of farm pond and check dams to improve the water use efficiency (NICRA) • Scientist – farmers interaction (ATMA) • Demonstration on improved production technologies.

k) Soil and water analysis (2013-14)

Category	No. of samples		No. of farmers	No. of villages	Amount realized (Rs.)
	Farmers in which OFT/FLD were implemented during the reported period	Other Farmers			
Soil	25	-	25	15	100
Water	20	-	20	17	10
Total	45	-	45	32	110

I) Human Resources Development (2013-14)

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.R.Durai Singh	Programme Co-ordinator	Orientation training programme	TNAU, Coimbatore	27.06.2013.
		Capacity building programme on commodity future market	CSRC, Ramnad	11.11.2013 12.11.2013
Dr.G.Anand	SMS (Agrl. Extn)	ICT initiative for inclusive agricultural development	TNAU, Coimbatore	03.07.2013-23.07.2013.
		Capacity building programme on commodity future market	CSRC, Ramnad	11.11.2013 12.11.2013
Dr.V.Meenakshi	SMS (H.Sci)	National level training course on Economics and marketing of value added foods	TNAU, Coimbatore	12.02.2014 19.02.2014.
		National Training on' Innovative Approaches in Processing and Packaging of Milk and Milk Products	NDRI,Karnal	19.07.13-08.08.13
		Capacity building programme on commodity future market	CSRC, Ramnad	11.11.2013 12.11.2013
		Training cum workshop on 'Hortivar'	AC & RI, Madurai	05.03.14-06.03.14

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.J.Ramkumar	SMS (Agrl.Ento)	Orientation training programme	TNAU, Coimbatore	27.06.2013.
		Capacity building programme on commodity future market	CSRC, Ramnad	11.11.2013 12.11.2013
		Sensitization programme on area expansion in castor	TCRS, Yethapur	11.03.2014
Dr.V.Rajasree	SMS (Hort.)	Orientation training programme	TNAU, Coimbatore	27.06.2013.
		Capacity building programme on commodity future market	CSRC, Ramnad	11.11.2013 12.11.2013
		Precision farming technologies in banana	SWC, TNAU, Coimbatore	10.01.2014 11.01.2014
Dr.P.Thukkaiyannan	SMS (Agro)	Training programme on management of rice in flood prone areas	CRRI, Cuttack	03.09.2013 04.09.2013
		Training of master trainers on sea weed cultivation	FC & RI, Thoothukudi	16.09.2013- 20.09.2013
		Capacity building programme on commodity future market	CSRC, Ramnad	11.11.2013 12.11.2013

b) Action plan in brief for the next season(s) – 2014-15

Sl. No.	Name of the operational village	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Malangudi	Rice	Yield loss and More Pest and Diseases due to dense population	Assessment of mechanical thinning methods in semidry rice	OFT
2.	Pukkulam	Chilli	Manual weeding involve drudgery and high cost as well as labour intensive.	Assessing the performance of weeders in reducing the drudgery	OFT
3.	Therkuvaniveethi	Groundnut	Non availability of adequate number of labour and equipment for sowing groundnut in time	Rotary dibbler for sowing rainfed groundnut	OFT
4.	Pukkulam Malangudi	Rice	Yield loss due to heavy pest and diseases incidence in ruling variety	Assessment of Rice varieties to replace BPT 5204	OFT
5.	Muthunal	Rice	Early drought resulting in termite attack	Management of harvester termite attack in semidry Rice	FLD
6.	Malangudi	Rice	Terminal stress	Demonstration of short duration rice variety Co (R) 51 for semidry cultivation in Ramanathapuram district	FLD
7.	Malangudi	Rice	Low yield	Demonstration of TNAU micronutrients mixture in rainfed rice	FLD
8.	Peraiyur	Cotton	Yield reduction	Management practices for cotton stem weevil	FLD
9.	Pukkulam	Barnyard millet	lack of awareness on HYV	Demonstration of Barnyard millet	FLD
10.	Peraiyur Perunali	Pulses	Labour & time intensive	Demonstration of spiral separator	FLD
11.	Malangudi	Nutrition	Lack of micro nutrient food supplement	Demonstration on nutritional gardening & Spirulina production in primary school premises	FLD

Sl. No.	Name of the operational village	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
12.	Valuthur	Coconut	Mortality of trees & low yield	Demonstration of traps for rhinoceros beetle and red palm weevil	FLD
13.	Melamadai	Azolla	Lack of green fodder & Reduction in milk yield	Curtailling Non-Availability Of Green Fodder Through Introduction Of Azolla	FLD
14.	Melamadai	Poultry	Economical loss due to mortality of birds	Oral pellet vaccine for newcastle disease in village chicks	FLD
15.	Melamadai	Cow	Low milk yield due to poor mineral supplementation.	Supplementation of enriched paddy straw blocks for low yielding milch animals	FLD
16.	Mandapam	Sea Algae	Income generation	Sea weed cultivation - An alternate enterprise for seashore farmers	FLD

c). Major outcome of Technology Assessment and Refinement (in bullet form only) 2014-15

- **Assessment of mechanical thinning methods in semidry rice:**

In Technology Option 3- Broadcasting seeds + Mechanical thinning using Weeders in crisscross direction (15 days after establishment) recorded higher yield and BC ratio of 4.7. The crop performance in T3 (Weeder used in criss cross direction) was better than single directional use (T2) and manual weeding alone without thinning (T1). Operation of Manually operated Weeders cause drudgery.

- **Assessing the Performance of Weeders in Reducing the Drudgery:**

The average heart rate was lower in CIAE peg type weeder (97 beats / min) when compared to Balaram weeder and manual weeding (102 beats /min and 123.5 beats/min respectively). Both the improved tools have shown reduction in heart rate while performing weeding activity. It is proved to reduce drudgery while performing weeding using improved weeders.

- **Assessment of Rotary Seed Dibbler in Groundnut:**

Rotary seed drill could be successfully employed owing to operational difficulties. Both the alternate practices were also not accepted by the farmers for field adoption owing to drudgery they could not be assessed.

- **Assessment of rice varieties to replace BPT 5204:**

The short duration fine grain rice variety Co(R)51 recorded higher yield of 4063 kg /ha with the BC ratio of 2.51 ,whereas improved samba mahsuri (DRR variety) and BPT 5204 (farmers practice) recorded 4007 and 3962 kg /ha respectively. Moderate incidence of leaf folder and blast incidence was observed in BPT 5204.

**d). Major outcome of Frontline Demonstrations (in bullet form only)
2014-15**

- **Demonstration of Short Duration Rice Variety Co (R) 51 in Ramanathapuram District:**

Performance of Co (R) 51 rice variety performed well during this season. The crop was matured early and get yield prior to terminal drought. Farmers preferred and more interested to cultivate Co (R) 51 rice variety, which is early maturing and fine type.

- **Demonstration of Barnyard Millet Co (KV) 2:**

Co (KV) 2 Kudiraivali is very much suitable for Ramanathapuram district. Its performance was better, where the supplemental irrigation given by tankfed than the rainfed and local variety. Farmers were much interested in Kudiraivali variety Co (KV)2 in future. The growth performance was realized by the farmers. Farmers felt that it is an alternate crop for rice during insufficient rainfall period in the district

- **Demonstration of TNAU Micronutrient mixture in rainfed Rice:**

Micronutrient mixture application to rice resulted in about 10 % increase in grain yield contributing to an increase in additional net returns of Rs.1770/acre. CO (R) 51 responded better than ADT 45. Farmers lacked clarity in choosing between Department of Agriculture's MN mix, TNAU's updated MN mix and ZnSO₄ which needs to be addressed through further extension.

- Demonstration of Traps for Rhinoceros Beetle and Red Palm Weevil:**
 The mean no of Redpalm weevil trapped in total of 15 traps from Nov'2014 to April 2015 are 157.67 and rhinoceros beetle are 94.00. Placement of traps in community approach is much better for managing the rhinoceros beetle and Redpalm weevil.
- Management Practices for cotton stem weevil:**
 The average of cotton yield of 1445 kg /ha was recorded chlorpyrifos treated field with BC ratio of 2.48. in check plot it is 1378 kg /ha and the BCR is 2.25.
- Demonstration of Spiral Separator:**
 Round seeds like green gram, black gram can be graded using spiral separator. Totally 1530 kg of round seeds graded by using spiral separator during 8 hours two labours required to separate good quality of seeds.
- Sea weed cultivation:**
 The recorded average yield of fresh sea weed was 253kg in floating raft method and long line rope method and the BCR is 1.3 and 1.35 in floating raft and long line rope method.
- Curtailling Non-Availability of Green Fodder through introduction of Azolla:**
 The average quantity obtained per pit was 80 gm/day which was sufficient for only one kid. Contamination of pits was very common. Availability of pure azolla seeds needs to be taken care. Number of pits can be raised to 4 per beneficiary to cater deficit production
- Demonstration on Nutritional Gardening & Spirulina Supplementation in Primary School Premises:**
 The average yield of vegetables in nutritional gardening at Malangudi village school was 8 kg of tomatos, 5 kg of bhendi, 6 kg of chillies, 2 kg of cluster bean and 8 kg of lab lab. The initial hemoglobin levels of control and experimental group was 10.4 and 10.5 g/dl respectively. At the end of the study (after 60 days) the hemoglobin level of experimental group was increased to 11.1 g/dl.

Other programmes (2014-15)

Sl. No.	Technology demonstrated	Budget (Rs.)
1.	Seaweed cultivation (sanctioned under special programme)	50,000
2.	Farmers field school – ICM in chilli	30,000
3.	NADP- Soil breeding	1,48,371
4.	NICRA-ICAR	5,60,000
5.	ATMA-PA	78,575
6.	Azolla	4,49,000

k) Soil and water analysis (2014-15)

Category	No. of samples		No. of farmers	No. of villages	Amount realized (Rs.)
	Farmers in which OFT/FLD were implemented during the reported period	Other Farmers			
Soil	30	-	30	5	100
Water	12	-	12	10	20
Total	42	-	42	15	120

Details of targets and achievements 2014-15

1. OFT				2. FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
4	4	28	28	10	10	147	147
3. Training				4. Extension Programmes			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
60	51	1500	1435	551	551	1352	1352
5. Seed Production (Qtl.)				6. Planting materials (Nos.)			
Targets		Achievement		Targets		Achievement	
-		-		-		-	
7. Livestock, poultry strains and fingerlings (No.)				8. Bio-products (Kg)			
Targets		Achievement		Targets		Achievement	
-		-		Vermicompost - 5tons		5 tons	

e). Details of Training Programmes conducted

Activities carried out during the period 2014-2015

Category	Major thematic areas covered	No. of courses	No. of participants
On campus	Integrated Crop Management, Value addition, Women empowerment Integrated Pest Management Livestock Production and Management, Soil Health and Fertility Management, Crop Production, Farm machinery and its maintenance.	13	397
Off campus	Production and use of organic inputs, Integrated Pest Management, Productivity enhancement in field crops, stress management, use of seed drill sowing, VDK and DSSIFER, green house production, Livestock feed and fodder production, Nutrition and Food Security.	18	474
Extension personnel	Food preservation and value addition, New technology invention	2	72
Rural youth training Programmes	Mushroom cultivation, azolla production, New technology invention	1	42
Vocational Programmes	Commercial vegetable production, Vermi compost and Value addition, Mushroom production	11	303
Sponsored programmes	Mushroom cultivation, azolla production, New technology invention, Value addition.	5	157

f) Extension Programmes conducted

Category	No of Programmes	No of farmers	No .of Extension Personnel
Advisory Services	113	101	12
Diagnostic Visits	69	206	-
Field Day	1	30	-
Scientists' visit to farmers field	133	133	-
Method Demonstration	5	130	-
Exposure visits	2	50	-

h) Major extension activities (2014-15)

Extension Activity	No. of activities	Participants		
		Farmers	Extension Functionaries	Total
Advisory Services	113	101	12	113
Agri mobile clinic	-	-	-	-
Animal Health Camp	1	Mass		
Awareness Campaign	1	Mass		
Celebration of important days	-	-	-	-
Diagnostic Visits	69	206	-	206
Exhibition	-	-	-	-
Exposure Visits	2	50	-	50
Ex-trainee Sammelan	-	-	-	-
Farm Science Club	-	-	-	-
Farmers rally	-	-	-	-
Farmers Visit to KVK	-	350	30	380
Field Day	1	30	-	30
Film Show	-	-	-	-
Group discussion	105	190	15	205
Group meeting	-	-	-	-
KisanGhoshi	-	-	-	-
KisanMela	-	-	-	-
Lecture delivered	19	Mass		
MahilaMandal conveners' meeting	-	-	-	-
Method Demonstration	5	130	-	130
Scientists' visit to farmers field	133	133	-	133
Seed treatment /replacement campaign	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-
Seminar	-	-	-	-
Soil health Camp	-	-	-	-
Workshop	12	-	560	560
Technology Week	-	-	-	-
Others if any (Pl. specify)	-	-		
Total	461	1190	617	1807

h) Other extension activities (2014-15)

Particulars	Number
Animal health camps	1
Phamblets	6
Booklets	3
Books	-
Electronic media	2
Extension Literature	7
Leaflets/folders	6
News letter	1
News paper coverage	8
Popular articles	-
Radio Talks	5
Soil health camps	-
Technical Articles	3
Technical Bulletins	6
Technical Reports	3
TV talks	5
Women Health Camps	-
Others if any (Pl. specify)	-

j) Production and supply of technology products

Category	Major crops /livestock/ fisheries strains / bio-products produced and supplied	Quantity (q)	Value (Rs.)	Number of farmers
Seed Materials – Varieties (Quintal)	RMD (R) 1	2	1600	5
Seed Materials –Hybrids (Quintal)	-	-	-	-
Planting Materials – Varieties (Number)	-	-	-	-
Ornamental plants	-	-	-	-
Planting Materials – Hybrids (Number)	-	-	-	-
Livestock Materials (Number)	-	-	-	-
Fingerlings (Number)	-	-	-	-
Bio Products (kg)	Vermicompost	373 kg	2238	20

Human Resource Development Programmes (2014-15)

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.R.Durai Singh	Programme Co-ordinator	NIPHM Training cum workshop	NIPHM, Hyderabad	3/6/2014-7/6/2014
		The brain storming session on FPO and partnership development	ZPD, Bangalore	25/7/2014
		Revitalization of Rainfed in Agriculture in India	MANAGE, Hyderabad	10/11/2014-14/11/2014
Dr.P.Thukkaiyannan	SMS (Agro)	The brain storming session on FPO and partnership development	ZPD, Bangalore	25/7/2014
		Organic Certification and Internal Control System Management	TNAU, Coimbatore	14/10/2014 18/10/2014
		Oil Palm Production Technologies	ARS Pattukottai	4/3/2015-5/3/2015
Dr.V.Meenakshi	SMS(H.Sci)	The brain storming session on FPO and partnership development	ZPD, Bangalore	25/7/2014
		National Seminar on Algae for Sustainable Agricultural Production	AC & RI, Madurai	29/9/2014 30/9/2014

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.J.Ramkumar	SMS (Agrl.Ento)	District level action plan for ATMA	JDA, Ramanathapuram	3/6/2014 5/6/2014
		IPM training	NCIPM, New Delhi	10/9/2014 13/9/2014
		Behavioral dimensions for convergence in agricultural extension •	MANAGE, Hyderabad	14/12/2014 21/12/2014
		Capacity building programme under NICRA scheme.	CRIDA, Hyderabad	27/1/2015 30/1/2015
Dr.K.Saravanan	SMS (SS & AC)	The brain storming session on FPO and partnership development	ZPD, Bangalore	25/7/2014
		National Training workshop on principles and practices of Direct Seeded Rice	CCSHAU, Haryana.	16/9/2014 6/10/2014
		Farmers Field School	TNAU, Coimbatore	20/11/2014 21/11/2014
Dr.G.Anand	SMS (Agrl. Extn)	Orientation programme on Mandated activities of KVK	ZPD, Bangalore	12/3/2014 12/6/2014
		The brain storming session on FPO and partnership development	ZPD, Bangalore	7/25/2014 7/25/2014
		IFS training programme	TNAU, Coimbatore	10/27/2014 10/28/2014
		PIMA training	ZPD, Bangalore	12/1/2014 12/6/2014

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.G.Anand	SMS (Agrl. Extn)	National Seminar on Extension management strategies for sustainable agriculture-challenges and opportunities	AC & RI, Madurai	12/12/2014 12/13/2014
		Promoting the market potentials of livestock and poultry products	Barathidasan University, Trichy	12/29/2014 12/30/2014
		National seminar on climate change and Indian agriculture.	UAS, Dharward	1/21/2015 1/24/2015
		Capacity building programme under NICRA scheme.	CRIDA, Hyderabad	1/27/2015 1/30/2015
		District action plan for ATMA	JDA, Ramanathapuram	3/4/2015 3/8/2015

Training for Farmers/ Farm Women (2014-15)

Sl. No.	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Rice	Unaware of nursery preparation for machine planting	Preparation of MAT/TRAY nursery for machine planting in rice	Training - FLD
2.	Rice	Weeds	Physical, chemical and mechanical weed control in rice	Training - FLD
3.	Rice	Drought	Management of Drought in rice	Training - OFT & FLD
4.	Ground nut	Unawareness of new technology Non adoption of nutrient management Low soil fertility	Improvement of soil fertility by nutrient management & addition of organics	Training - OFT
5.	Coconut	Under utilization of interspaces in coconut gardens	Intercropping in coconut gardens	Training - OFT
6.	Bhendi	Low yield and lack of awareness of high yielding varieties and hybrids	ICM practices for bhendi	Training - FLD
7.	Vegetable cowpea	Low yield and lack of awareness of high yielding varieties and hybrids	Production technology for vegetable cow pea	Training - FLD
8.	Poultry	Poor egg & meat production	Backyard poultry production	Training - FLD
9.	Sorghum	Low yield, Lack of technical knowledge in Sorghum value addition, Low Market value for sorghum	Home scale entrepreneurship development through value addition in sorghum	Training - FLD
10.	Cumbu	Low yield, Lack of technical knowledge in cumbu value addition	Home scale entrepreneurship development through value addition in Cumbu	Training - FLD
11.	Rice	Leaf folder incidence	Management tactics for rice leaf folder	Training - OFT
12.	Rice	Pest and disease	Integrated pest and disease management	Training - FLD

Sl. No.	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
13.	Chilli	Fruit borer incidence	Management tactics for chilli fruit borer	Training - OFT
14.	Rainfed Ground nut	Micronutrient deficiency	Importance of Micronutrients in groundnut	Training - FLD
15.	Rainfed Ground nut	Micronutrient deficiency	Micronutrient deficiency and its management in Groundnut	Training - FLD

Training for Rural Youth (2014-15)

Sl. No.	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Watermelon	Lack of awareness on improved technologies	Importance of growth regulator spray in enhancing productivity in water melon	Training - FLD
2.	Poultry	Poor egg & meat production	Backyard poultry production	Training - FLD
3.	Coir waste	Coir waste unutilized	Decomposing of coir dust with <i>Pleurotus</i>	Training
4.	FYM	Availability is less	Enriched FYM	Training
5.	Maintenance & usage of seed drill	Depth of sowing, maintenance and usage	Tractor owner and driver	Training
6.	Tuberose	Profitable crop not cultivated	Cultivation aspect of tuberose	Training
7.	IFS	Low income	Integrated farming system: Establishment of backyard poultry shed. Establishment of composite fish culture unit. Supply of annual moringa PKM 1 Vermi Composting	Training
8.	Mobile portable sprinkler	Less water availability	Demonstration of MMS	Training and demonstration

Trainings for Extension Personnel (2014-15)

Sl. No.	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Crop Production	Drought management in rice	Agronomic management of drought in rice	Training
		Management of problem soil	Management of problem soil	Training
3.	Home Science - Dietetic management	Nutritional security through low cost feeding	Nutritional security through low cost supplementary feeding	Training
4.	Horticulture	ICM in Horticultural crops	Supply chain management in Horticultural crops	Training
5.	Livestock Production & Management	Poor egg & meat production	Backyard poultry production	Training
6.	Plant Protection	Pest incidence	Recent advances in plant protection	Training

Vocational trainings

Sl. No.	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Crop Production	Recycling of organic waste	Recycling of organic waste	Training
2.	Home Science	Entrepreneurship development	Value added products for Entrepreneurship development	Training
		Shorter shelf life of fresh coconut(one month), low market value (Rs.5 /nut) , lack of technical knowledge on virgin coconut oil production	Processing and Preservation of Virgin Coconut oil	Training
4.	Horticulture	seedling production techniques	seedling production techniques	Training
5.	Livestock Production & Management	Poor egg & meat production	Backyard poultry production& slatted goat rearing, turkey rearing	Training
6.	Plant Protection	Pest incidence, Mushroom	Mass multiplication of Bio control agent and mushroom production techniques	Training

Sponsored trainings (2014-15)

Sl. No.	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Sponsoring agency	Nature of interventions proposed to be implemented
1.	Home science	Shorter shelf life of fresh coconut (one month), low market value (Rs.5 /nut) , lack of technical knowledge on virgin coconut oil production	Processing and Preservation of Virgin Coconut oil	ICAR/ NABARD	Training
2.	Green fodder	Lack of availability of green fodder	Increase the fodder production by introduction of CO (CN)-4 fodder grass	NABARD	Training
3.	Backyard poultry & Turkey rearing	Low income from agricultural crops	Popularization of BYP	NABARD	Training
4.	Slatted goat rearing	Low income from agricultural crops	Popularization of SGR	KVK	Training
5.	Milky mushroom production	Low income from agricultural crops & unprofitability in paddy straw mushroom	Popularization of milky mushroom	KVK	Training

b) Action plan in brief for the next season(s) – 2015-16

Sl. No.	Name of the operational village	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Muthuchellapuram	Paddy	Attitude of Farmer towards very fine rice cultivation, Yield loss due to terminal Drought, False smut, Heavy seed rate usage	Assessment of Fine Grain Rice Varieties in Ramanathapuram	OFT
2.	Muthuchellapuram	Paddy	Evaluation of Roto till seed drill for sowing semi dry paddy	Evaluation of Roto till seed drill for sowing semi dry paddy	OFT
3.	Muthuchellapuram	Cotton	Sucking pest incidence & drought	Assessment of cotton varieties for drought and biotic stress	OFT
4.	Muthuchellapuram	Paddy	Imbalanced fertilizer application	Improved fertilizer P management for semi dry rice	FLD
5.	Muthuchellapuram	Chilli	Sucking pest incidence	IPDM Practices In Mundu Chilli	FLD
6.	Muthuchellapuram	Paddy	Yield loss due to terminal drought	Drought mitigation technique in semi dry rice	FLD
7.	Manjakollai Valuthur Sevvour Komputhi	Cluster bean	Low productivity	Demonstration of MDU1 Cluster bean variety introduction	FLD
8.	Peraiyur	Barnyard millet	Low returns due to non availability of processing machineries	Value Addition Technique In Kuthiraivali For Getting Higher Returns	FLD
9.	Peraiyur Pukkulam Muthuchellapuram	Ragi thresher	Poor Yield due to road side threshing Lack of threshing facility	Demonstration Of Ragi Thresher For Drudgery Reduction	FLD
10.	Therkkuvaniveethi	Coconut	Low productivity	Popularization of Multi-Cut Fodder Grass For Coconut Grooves	FLD
11.	Enmanamkondan	Coconut	Low productivity	Yield Maximization Practices In Coconut	FLD

c). Major outcome of Technology Assessment and Refinement (in bullet form only) (2015-16)

- **Assessment of Fine Grain Rice Varieties in Ramanathapuram:**

Farmers of ramanathapuram cultivate BPT5204 rice variety because of its grain fineness and high price in market, but it requires frequent plant protection measures, moderate incidence of leaf folder, false smut and blast was noticed and long duration susceptible to terminal drought. Hence this on farm trial was carried out to assess the varieties CO R 51, NLR34449, TKM13 with BPT5204. By this On Farm Trial farmers were much convinced with the performance of NLR 34449 (high tillering ability, high yield and fine grain) and also less pest and disease incidence noted.

- **Evaluation of Roto till seed drill for sowing semi dry paddy:**

Three out of five of the participant farmers are very much convinced for adoption of the roto seed drill. There is a remarkable improvement in the weeding efficiency (50% reduction in the labour employed) due to the line sowing achieved. A properly leveled field is a pre requisite to avoid gaps in line sowing under roto seed drill.

- **Assessment of cotton varieties for drought and biotic stress:**

The highest yield of 1415 kg/ha was recorded with SVPR-2 variety followed by Suraj(1187 kg/ha) and Surabhi (997 kg/ha). However, regarding mean population of sucking pests incidence all the three variety had equal density of thrips and jassids per leaf.

d). Major outcome of Frontline Demonstrations (in bullet form only)

(2015-16)

- **Demonstration of ICM in Cluster bean MDU 1:**

The result indicated that, demonstrated plot (var. MDU -1) recorded the highest yield of 14.2 t/ha whereas corresponding yield under local variety (farmer practices) was 9.0 t/ha. Adoption of improved variety increased the yield of 38 per cent over the farmer practices. An average net profit of Rs. 9900 was obtained from technology demonstrated plot while it was Rs. 7500 in farmer practices plot. In the case of B:C ratio, demonstration plot (var. MDU -1) registered the ratio of 3.28 whereas the farmers practices (local variety) recorded 2.24. From the conclusion of the present demonstration, var. MDU -1 (demo) recorded the highest yield of 14.2 t/ha and registered 38 per cent increase yield over the farmer practices with the higher benefit cost ratio of 3.28.

- **Yield Maximization Practices in Coconut:**

The result indicated that, demonstrated palm recorded the highest nut yield of 75 nuts per palm whereas corresponding yield under control palm (farmer practices) was 62 nuts per palm. Adoption of improved technologies increased the nut yield of 18 per cent over the farmer practices and also quality of the nuts improved. An average net profit of Rs. 48600 was obtained from technology demonstrated palm while it was Rs. 25200 in farmer practices palm. In the case of B:C ratio, demonstration palm recorded the ratio of 3.12 whereas the farmers practices observed 2.26. From the conclusion of the present demonstration, var. MDU -1 (demo) recorded the highest nut yield of 75 per palm and registered 18 per cent increase nut yield over the farmer practices with the higher benefit cost ratio of 3.12.

- **Improved Fertilizer P Management for Semi Dry Rice:**

Demonstration of SSP as a better P source under rainfed conditions. The economics and additional benefits of using SSP in place of DAP was demonstrated through FLDs in Muthusellapuram. Farmers are convinced about additional benefits of reduction in cost of cultivation as well as improvement in soil health

- **Drought Mitigation Techniques in Semi Dry Rice:**

Farmers were not satisfied with the variety performance because of lodging and shattering of grains which makes harvesting difficult. This was the only variety harvested earlier than other varieties (95-100 days), which ensures no yield loss due to terminal drought.

- **Demonstration of Ragi Thresher for Drudgery Reduction:**

The average yield of Ragi Co-15 was 1620 kg/ha. The BC ratio of ragi Co-15 was 2.28. the ragi thresher was delivered on 23.06.2013. hence this FLD will be carried over to this year. (2016-17).

- **Value addition Technique In Kuthiraivalli for Getting Higher Returns:**

The average yield of barnyard millet was 1250 kg/ha. The BC ration was 4.45. the yield of unbroken in parboiled barnyard millet rice was 72.5 per cent. The yield of unbroken rice was increased to 25 percent in parboiled barnyard millet rice than raw rice.

- **IPDM Practices in Mundu Chilli:**

The average yield of 23.06 q/ha was recorded in IPM plot whereas in check plot it is 19.55 q/ha. The BCR in demo plot is 3.40 and in check plot it is 3.09.

Other programmes (2015-16)

Sl. No.	Technology demonstrated	Budget (Rs.)
1.	National Initiative of Climate Resilient in Agriculture(ICAR - NICRA)	10.00 Lakhs

Soil and water analysis (2015-16)

Category	No. of samples		No. of farmers	No. of villages	Amount realized (Rs.)
	Farmers in which OFT/FLD were implemented during the reported period	Other Farmers			
Soil	40	-	40	10	-
Water	7	-	7	7	-
Total	47	-	47	17	-

Details of targets and achievements 2015-16

1. OFT				2. FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
3	3	15	15	12	10	89	79
3. Training				4. Extension Programmes			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
40	32	1000	841	719	719	4217	4217
5. Seed Production (Qtl.)				6. Planting materials (Nos.)			
Targets		Achievement		Targets		Achievement	
Paddy seeds		Rs.3090/-		-		-	
Vegetable & fruits		Rs.3520/-		-		-	
7. Livestock, poultry strains and fingerlings (No.)				8. Bio-products (Kg)			
Targets		Achievement		Targets		Achievement	
-		-		Vermicompost		Rs.2376/-	

e). Details of Training Programmes conducted

Activities carried out during the period 2015-2016

Category	Major thematic areas covered	No. of courses	No. of participants
On campus	Integrated Crop Management, Value addition, Women empowerment Integrated Pest Management Livestock Production and Management, Soil Health and Fertility Management, Crop Production, Farm machinery and its maintenance.	8	260
Off campus	Production and use of organic inputs, Integrated Pest Management, Productivity enhancement in field crops, stress management, use of seed drill sowing, VDK and DSSIFER, green house production, Livestock feed and fodder production, Nutrition and Food Security.	17	419
Rural youth training Programmes	Mushroom cultivation, Soil Health and Fertility Management	4	100
Vocational Programmes	Commercial vegetable production, Vermi compost and Value addition, Mushroom production	3	62
Sponsored programmes	New technology invention in Agriculture, Value addition, Sustainable Sugarcane	3	60

f) Extension Programmes conducted (2015-16)

Category	No of Programmes	No of farmers	No .of Extension Personnel
Advisory Services	115	105	10
Diagnostic Visits	12	527	-
Field Day	1	68	3
Scientists' visit to farmers field	52	148	-
Method Demonstration	21	424	32
Exposure visits	2	65	-

i) Major extension activities (2015-16)

Extension Activity	No. of activities	Participants		
		Farmers	Extension Functionaries	Total
Advisory Services	115	105	10	115
Agri mobile clinic	-	-	-	-
Animal Health Camp	-	-		
Awareness Campaign	4	Mass		
Celebration of important days (Field day)	1	68	3	71
Diagnostic Visits	112	527	-	527
Exhibition	-	-	-	-
Exposure Visits	2	65	-	65
Ex-trainee Sammelan	-	-	-	-
Farm Science Club	-	-	-	-
Farmers rally	-	-	-	-
Farmers Visit to KVK	52	148	-	148
Field Day	1	68	3	71
Film Show	-	-	-	-
Group discussion	105	190	15	205
Group meeting	90	145	12	157
KisanGhoshi	1	98	5	103
KisanMela	3	1044	92	1136
Lecture delivered	25	Mass		
MahilaMandal conveners' meeting	-	-	-	-
Method Demonstration	21	424	32	456
Scientists' visit to farmers field	52	148	-	148
Seed treatment /replacement campaign	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-
Seminar	-	-	-	-
Soil health Day	1	92	18	110
Workshop	12	-	590	590
Technology Week	-	-	-	-
Others if any (Pl. specify)	-	-		
Total				

h) Other extension activities (2015-16)

Particulars	Number
Animal health camps	-
Phamblets	3
Booklets	2
Books	-
Electronic media	2
Extension Literature	7
Leaflets/folders	11
News letter	-
News paper coverage	27
Popular articles	-
Radio Talks	5
Soil health camps	1
Technical Articles	2
Technical Bulletins	11
Technical Reports	8
TV talks	5
Women Health Camps	-
Others if any (Kisan Mela)	3

k) Production and supply of technology products (2015-16)

Category	Major crops /livestock/ fisheries strains / bio-products produced and supplied	Quantity (Kg)	Value (Rs.)	Number of farmers
Seed Materials – Varieties	Co (R) 51 ADT - 48	118	3090	7
Seed Materials –Hybrids (Quintal)	-	-	-	-
Planting Materials – Varieties (Vegetables)	Vegetables	-	3520	40
Ornamental plants	-	-	-	-
Planting Materials – Hybrids (Number)	-	-	-	-
Livestock Materials (Number)	-	-	-	-
Fingerlings (Number)	-	-	-	-
Bio Products (kg)	Vermicompost	396	2376	21

Human Resource Development Programmes (2015-16)

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Er.I.Seegan Paul	Programme Co-ordinator	Agroforestry models – Establishment & Management	Institute of forest genetics & tree breeding, TNAU, Coimbatore	18.11.2015 20.11.2015
		First phase of training programme for the newly recruited Programme Coordinators of KVKs	NAARM, Hyderabad	15.12.2015 29.12.2015
		Second phase of training programme at best KVK for the newly recruited Programme Coordinators	Babhaleswar, Ahmed Nagar District, Maharastra	04.01.2016 14.01.2016
Dr.J.Ramkumar	SMS (Agrl.Ento)	Agroforestry models – Establishment & Management	Institute of forest genetics & tree breeding, TNAU, Coimbatore	14.10.2015 16.10.2015
		To attend the training for Farm managers	TNAU, Coimbatore	22.03.2016 25.03.2016
Dr.C.Rajamanickam	SMS (Hort.)	Attended four days training programme on “Biogas Technology” sponsored by International Institute of Renewable Energy	Department of Bioenergy, AEC&RI, TNAU, Coimbatore	07.12.2015 10.12.2015

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.C.Rajamanickam	SMS (Hort.)	National Symposium on Spices, Medicinal and Aromatic Crops	TNAU, Coimbatore	16.12.2015 18.12.2015
Dr.K.Saravanan	SMS (SS & AC)	District level action plan for ATMA	Ooty, Nilgiri district	03.03.2016 05.03.2016
Dr.M.Shanthasheela	SMS (Extn.)	Communication and Management skills for Extension Professionals	MANAGE, Hyderabad	01.06.2015 10.06.2015
Mrs.Arulmozhi	SMS (PBG)	Training Programme on "Social Media for Effective Sharing of Agricultural Knowledge" sponsored by MANAGE	TNAU Coimbatore	08.6.2015 11.6.2015
		Agroforestry models – Establishment & Management	Institute of forest genetics & tree breeding, TNAU, Coimbatore	14.10.2015 16.10.2015
		Capacity building an Imparting Administrative Training	TNAU, Coimbatore	28.10.2015 30.10.2015
Tmt.G.Namagirilakshmi	Prog.Asst. (Computer)	To attend the Refresher training programme for Prog.Asst.	TNAU, Coimbatore	10.03.2016 11.03.2016

b) Action plan in brief for the next season(s) – 2016-17

Sl. No.	Name of the operational village	Crop / Enterprises	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1.	Mummudisathan	Chilli	Lack of awareness on new technology of chilli	Assessment of high density planting design under drip irrigation system for chilli	OFT
2.	Manjakollai	Cluster bean	Low yield	Assessment of Cluster bean varieties	OFT
3.	Chinnaakramesi	Bhendi	Yield loss due to yellow vein mosaic virus disease	Assessment of bhendi hybrids tolerant to yellow vein mosaic virus disease	OFT
4.	Mummudisathan	Drumstick	Low area productivity	Assessment of Suitable Moringa Varieties	OFT
5.	Mummudisathan Chinnaakramesi	MPS - Ground nut	Non availability of water	Popularization of mini portable sprinkler to mitigate drought in groundnut	FLD
6	Pandiyur	Amarant hus	Low yield & new variety introduce	Demonstration of Amaranthus PLR 1 (Sirukeerai	FLD
7	Muthuchellapuram	Chilli	Low yield	Demonstration of ICM practices in Ramanathapuram Mundu chilli	FLD
8	Manjakollai	Brinjal Bhendi	Farmers Field School	FFS - IPT in vegetable cultivation	FLD
9	Chinnaakramesi	Paddy	Yield loss due to pest disease	Demonstration of IPDM practices in paddy	FLD
10	Muthuchellapuram	Cotton	Yield loss due to pest disease	Demonstration of IPM practices in cotton	FLD
11	Vazhuthur	Coconut	Lack of knowledge on intercropping in coconut	Demonstration of suitable vegetable crops for intercropping in coconut gardens	FLD
12	Vazhuthur	Coconut Shredder	Low returns due to non availability of processing machineries	Demonstration of tractor operated shredder for recycling coconut fronds	FLD

c) Current status of On Farm Trial (in bullet form only) 2016-17

- **Assessment of high density planting design under drip irrigation system for chilli:**
Assessment farmers were identified. Purchased samba chilli seeds as critical input and distributed to the participatory farmers.
- **Assessment of Cluster bean varieties:**
Assessment farmers were identified at Vazhuthur and Manjakollai villages of Ramanathapuram district. Inputs were purchased and distributed to the participatory farmers.
- **Assessment of bhendi hybrids tolerant to yellow vein mosaic virus disease:**
Assessment farmers were identified. Soil samples also collected from their field. Sowing has been taken up.
- **Assessment of Suitable Moringa Varieties:**
Assessment farmers were identified. Purchased Bhagya and PKM-1 Moringa variety seeds.
- **Assessment of Rice Varieties tolerant to sodic soils in Ramanathapuram district:**
Assessment farmers were identified. Soil samples also collected from their field. Purchase of critical inputs in progress.

c) Current status of Front Line Demonstrations (in bullet form only) 2016-17

- **Popularization of mini portable sprinkler to mitigate drought in groundnut:**
Participant farmers were identified and the demonstration with MPS to groundnut crop will be taken up during the cropping season.
- **Demonstration of Amaranthus PLR 1 (Sirukeerai):**
Participant farmers were identified at Vazhuthur, Pandiyur and Manjakollai villages. Inputs were distributed to the participatory farmers
- **Demonstration of ICM practices in Ramanathapuram Mundu chilli:**
Participant farmers were identified at P. Muthuchellapuram village. Inputs like Neem soap, Vegetable specials and pheromone traps were sent purchase proposal.
- **Demonstration of IPDM practices in paddy:**
Participant farmers were identified. Soil samples also collected from their field. Sowing has been completed.

- **Demonstration of IPM practices in cotton:**
Participant farmers were identified. Soil samples also collected from their field. And the purchase of critical inputs in progress.
- **Demonstration of suitable vegetable crops for intercropping in coconut gardens:**
Participant farmers were identified and Collected soil samples from their field. Purchased bhendi (arka anamika) seeds and distributed to the farmers.
- **Demonstration of tractor operated shredder for recycling coconut fronds:**
Participant farmers were identified.
- **Demonstration of INM practices for semidry rice in Ramnad:**
Delivery of critical inputs viz., Gypsum to identified participant farmers with technical guidance
- **Up scaling use of gypsum as a soil ameliorant:**
Gypsum recommendation given to individual participant farmers after sampling and testing of soil. Required quantity of Gypsum was purchased and delivered at the village.
- **Demonstration of Plastic mulching technology in chilli cultivation:**
Participant farmers were identified from Ariyenthall and Mumudisaththan villages
- **Integrated Farming System:**
IPT in vegetable cultivation (crop-Brinjal & Bhendi), Participant farmers were identified at Manjakollai village of Bogalur block and the Preparation of technical material is in progress.

I) Revolving Fund Status (2013-14,2014-15 & 2015-16)

Year	Opening balance as on 1 st April of previous year	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of current year
2013-2014	275590	69252	35600	309242
2014-2015	309242	321527	54466	576303
2015-2016	576303	46818	78759	544362

Utilization of KVK funds -2013-14

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	7300000		8326747
2	Traveling allowances	150000		149482
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	215000	10023437	218984
B	POL, repair of vehicles, tractor and equipments	182000		182756
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	50000		44550
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	40000		51646
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	270000		236055
F	Extension Activities	30000		30920
G	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	50000		21370
H	Training of extension functionaries	25000		24090
I	Maintenance of buildings	25000		21284
J	Establishment of Soil, Plant & Water Testing Laboratory(Extension Activities)	0		0
K	Farmers Field School	28000		27510
L	Library (Purchase of Journal, News paper& Magazines)	5000		4815
	Total (Contingencies)			
TOTAL (A)		920000		863980
B. Non-Recurring Contingencies				
1	Furniture and furnishing	0		0
a.	Plant Health Diagnostic Facility	0		0
B	Laser Guided Land	0		0
C	Ground pod striper	0		0
D	Power weeder	0		0
E	Generator	0		0
2	Works – Administrative Building	1830000		1830000
3	Library	0		
4	SWTL	0		
TOTAL (B)		1830000		1830000
GRAND TOTAL (A+B)		10200000	10023437	11170209

Utilization of KVK funds 2014-15

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	9000000		9031284
2	Traveling allowances	56000		66603
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	20000	9352156	215412
B	POL, repair of vehicles, tractor and equipments	20000		110152
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	20000		27600
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	20000		19849
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	200000		159799
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	50000		61440
G	Training of extension functionaries	10000		19575
	Extension Activities	10000		0
H	Maintenance of buildings	0		0
	Farmers Field School (FFS)	10000		9000
I	Establishment of Soil, Plant & Water Testing Laboratory	0		0
J	Library	5000		4830
	TOTAL (A)	370000		676625
B. Non-Recurring Contingencies				
1	Works – (Administrative building)	0		0
2	Equipments including SWTL & Furniture	0		0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0		0
4	Library (Purchase of assets like books & journals)	0		0
	TOTAL (B)	0		0
C. REVOLVING FUND		0		0
GRAND TOTAL (A+B+C)		9426000		9707909

Utilization of KVK funds 2015-16

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	7907000		9481144
2	Traveling allowances	90000		89919
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	170000	10660329	169970
B	POL, repair of vehicles, tractor and equipments	146000		142187
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	50000		35123
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	20000		12750
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	171000		146400
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	38000		28355
G	Training of extension functionaries	0		0
	Extension Activities	50000		49993
H	Maintenance of buildings	0		0
	Farmers Field School (FFS)	0		0
I	Establishment of Soil, Plant & Water Testing Laboratory	0		0
J	Library	5000		3220
	TOTAL (A)	650000		
B. Non-Recurring Contingencies				
1	Works – (Administrative building)	1900000		1900000
2	Furniture's & Fixtures	200000		0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0		0
4	Library (Purchase of assets like books & journals)	0		0
	TOTAL (B)	2100000		1900000
C. REVOLVING FUND		0		0
GRAND TOTAL (A+B+C)		10747000		12059061

Salient achievements in detail

S. No	Title	Problem identified	Technology Intervention Undertaken	Mode of Implementation	Outcome	Action for up-scaling / recommendation of the outcome
1	National Innovative on Climate Resilient Agriculture (NICRA)	<ul style="list-style-type: none"> • Drought • Short duration rice varieties 	<ul style="list-style-type: none"> • Constructions of farm ponds and Deepening of farm ponds • Constructions of check dams • Widening of water flowing channel • PPFM spray 	<ul style="list-style-type: none"> • Diagnostic visits • Meeting • Trainings • Short duration paddy seeds distribution 	<ul style="list-style-type: none"> • Construction of six farm ponds and deepening of two community farm ponds that saved nearly 80 percent of runoff water. This water was used during the crop period. Terminal stress is common in this region. 	Given below
2	Pink Pigmented Facultative Methylotrops (PPFM) Spray	<ul style="list-style-type: none"> • Drought 	<ul style="list-style-type: none"> • PPFM Spray 	PPFM Spray	<ul style="list-style-type: none"> • Spraying of PPFM the crop through stomata and produces the growth promoting hormones and certain enzymes which keep the crop greener for 15-20 days and thus providing a situation to escape the temporary drought. If sufficient rain received in due course the crop could survive and come to yield. 	Given below

S. No	Title	Problem identified	Technology Intervention Undertaken	Mode of Implementation	Outcome	Action for up-scaling / recommendation of the outcome
3	ATMA Scheme	Famers – Scientists Interaction	<ul style="list-style-type: none"> Lack of knowledge on new technology 	<ul style="list-style-type: none"> Meeting Trainings 	<ul style="list-style-type: none"> Four number of farmer – Scientist Interaction regarding demonstration of seed drill for paddy cultivation was jointly organized by KVK and State Department of Agriculture. 	Given below
4	Azolla production	Low productivity	<ul style="list-style-type: none"> Training about Azolla cultivation to the farmers 	<ul style="list-style-type: none"> Meeting Trainings 	<ul style="list-style-type: none"> Training about Azolla cultivation technology to the identified beneficiaries and Supply of Azolla inoculums along with silpaulin sheet to them for the establishment of Azolla cultivation in their farms. 	Training and awareness given to about Azolla cultivation to the farmers.

1) *National Innovative on Climate Resilient Agriculture (NICRA)

Rain Water Harvesting and Recycling for Supplemental Irrigation was attempted by Krishi Vigyan Kendra, Ramanathapuram under NICRA project at Kalari and Melamadai villages in Ramanathapuram district, where crop failure is a regular phenomenon due to drought. Agriculture in these villages is mainly depending on the North East monsoon rains. Hence, the following works for rain water harvesting under Natural Resource Management of NICRA were undertaken at a cost Rs.10.5 Lakhs. Construction of six farm ponds and deepening of two community farm ponds that saved nearly 80 percent of runoff water. This water was used during the crop period. Terminal stress is common in this region. During that period mini portable sprinklers were used to pump water from the farm ponds and irrigated the paddy & chilli fields. Due to farm ponds intervention the crops harvested successfully.

2) PPFM Spray

Krishi Vigyan Kendra operating at Ramanathapuram has taken up spraying of pink pigmented facultative methylotroph bacteria (PPFM) on standing rice crop in all the blocks of Ramanathapuram covering 1000 hectares as an initial cluster demonstration. The district received only 86-149 mm of rainfall during the last three months due to monsoon failure. Under National Food Security Mission (NFSM) an amount of Rs. 20.5 lakhs has been provided to Krishi Vigyan Kendra, Ramanathapuram of Tamil Nadu Agricultural University (TNAU) specially for rice crop to spray PPFM for mitigating drought. The PPFM (200 ml diluted in 200 litres of water per acre) when sprayed on rice crop, the bacteria catch the escaped methanol from leaves and use them as a carbon source and resist production of acetylene which is the major cause for leaf senescence of the crop. In addition the PPFM enters the crop through stomata and produces the growth promoting hormones and certain enzymes which keep the crop greener for 15-20 days and thus providing a situation to escape the temporary drought. If sufficient rain received in due course the crop could survive and come to yield.

3) ATMA Scheme

Four number of farmer – Scientist Interaction regarding demonstration of seed drill for paddy cultivation was jointly organized by KVK and State Department of Agriculture. The demonstrations were organized at Ramanathapuram, Paramakudi ,Thiruvadanaai & Mandapam blocks. Due to this programme 200 farmers and tractor drivers were benefitted.

Interactions and discussions

Sl.No	SAC Members	Suggestions
1.	Joint Director of Agriculture, Ramanathapuram	<p>At present, KVK Ramanathapuram is providing technical guidance during the monthly zonal workshops and for field level problems. This is to be continued.</p> <p>Skill demonstrations may kindly be provided to Farmers Training Centre - convener farmers. So, that technical skill demonstration can spread in villages easily.</p> <p>Hands on training on the operation of machines like paddy transplanter, combined harvester, rotavator, power weeder, seed drill maintenance <i>etc</i> may be given to farmers at KVK.</p> <p>Village based training on technical subjects may be given to farmers and extension functionaries in latest technologies like PPFM spray, Redgram transplantation <i>etc</i>.</p> <p>Trials may be conducted by KVK in selecting suitable paddy varieties for Ramanathapuram district. For example suitable variety for replacing BPT-5204 may be tried (At present ADT(R)49 is recommended. But seeds are not available in sufficient quantity.)</p> <p>Trainings on the importance of millet production and value addition may be given</p> <p>Training on Mushroom culture and vermicompost may be given to farmers.</p> <p>Model may be developed on Integrated Farming System at KVK for farmers to see directly and get training on them.</p> <p>Drought management technologies may be evolved and training may be given in this aspect.</p>

		<p>Training on Bio-control agents, Bio pesticides, organic manures may be given</p> <p>Technologies suitable to Ramanathapuram district in irrigation management, Pest management and Nutrient management</p> <p>Trials may be arranged in cotton (Masipattam) to control cotton mealy bug studies.(This is a big problem every year.)</p> <p>In BPT-5204, Laksmi disease (smut) occurred in large scale in 2011-12. Training may be given in prophylactic measures to be taken to contain this disease.</p>
2.	Deputy Director (Horticulture) , Ramanathapuram	<p>New improved drought tolerant chilli variety alternate to local mundu may be introduced.</p> <p>Training on saline soil reclamation technologies may be given to extension functionaries.</p> <p>Institutional intervention by the KVK may be adopted for supply of chilli and tomato seedlings through pro tray</p> <p>Training on Kitchen garden & terrace garden may be given to the homer makers and SHG</p>
3.	Executive Engineer , Department of Agriculture Engineering, Ramanathapuram	Training on seed drill sowing and hydraulic adjustment in tractors may be given to the tractor owners and drivers.
4.	JDA (Animal Husbandry) Ramanathapuram	<p>Training on backyard poultry to be promoted</p> <p>Training on livestock production management to be promoted</p>
5.	Assistant Director of Fisheries (South) , Ramanathapuram	<p>Promoting prawn culture in farmers field may be included in KVK activity to improve the farm income.</p> <p>Promoting fish culture in farm pond</p>
6.	Assistant Director of Fisheries (North) , Ramanathapuram	<p>Training may be given to promote sea weed cultivation</p> <p>Promoting Inland Fish culture</p>
7.	AGM (NABARD), Ramanathapuram	CO (CN) – 4 fodder grass may be popularized by demonstration.

		<p>Saline tolerant azolla may be identified and introduced among farmers of Ramanathapuram district.</p> <p>Training of improved rearing technologies for milch animals is to be given to increase the milk yield.</p> <p>Dry land crops like maize, sorghum and small millets may be introduced in alternate to rice and cotton</p>
8.	Project Director, ICDS , Ramanathapuram	Training and awareness campaign may be given by KVK scientist to alleviate mal nutrition
9.	Farmer : Mrs.Sesu Mary Muthukulathur	<p>Technology for improving Seed Germination in late monsoon</p> <p>Reclamation technology for Saline Soil</p> <p>High yielding varieties for Millets may be promoted</p>



Finalization of action points



Any other agenda with the permission from the Chairman

