ZONAL PROJECT DIRECTORATE – ZONE VIII BANGALORE

PROFORMA FOR ACTION PLAN OF KVKs IN ZONE VIII FOR 2015 - 16

1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with Phone, Fax and e-mail	:	Krishi Vigyan Kendra, Social Change and Development(SCAD) Vagaikulam, Mudivaithanendal Post Thoothukudi 628102 Phone and Fax: 0461-2269306 Email: pcscadkvk@gmail.com Website: www.scadkvk.org
1.2	Name and address of host organization	:	Social Change And Development Bye Pass Road, Vannarpettai Tirunelveli Ph: 0462-2501008, Fax: 0462-2501007 Email: scb_scad@yahoo.com
1.3	Year of sanction	:	1995
1.4	Website address of KVK and date of last update	:	www.scadkvk.org 01 – 02 – 2015

2. Details of staff as on date

Sl.No.	Sanctioned post	Name of the incumbent	Discipline	Existing Pay band	Grade Pay	Date of joining	Permanent/ Temporary
2.1	Programme Coordinator	Dr.G.Alagukannan	Horticulture	37400 – 67000	9000	1.8.2013	P
2.2	Subject Matter Specialist	Dr.V.Srinivasan	Animal science	15600-39100	5400	8.7.1999	P
2.3	Subject Matter Specialist	S. Sumathi	Home science	15600-39100	5400	1.12.2000	P
2.4	Subject Matter Specialist	P.Velmurugan	Horticulture	15600-39100	5400	30.1.2001	P
2.5	Subject Matter Specialist	M.Ashok Kumar	Plant protection	15600-39100	5400	17.8.2009	P
2.6	Subject Matter Specialist	A.Murugan	Agronomy	15600-39100	5400	18.07.2011	P
2.7	Subject Matter Specialist	Vacant					
2.8	Programme Assistant	I. Jeyakumar	Lab Assistant	9300-34800	4200	12.07.2013	P
2.9	Computer Programmer	J. Jove	Computer science	9300-34800	4200	01.04.2011	P
2.10	Farm Manager	K. Damodaran	Agriculture	9300-34800	4200	31.8.2009	P
2.11	Accountant/Superintendent	S.S. Ganesan	-	9300-34800	4200	1.6.1996	P
2.12	Stenographer	A. Vimala	-	5200-20200	2000	1.6.1996	P
2.13	Driver 1	Dominic James	-	5200-20200	2000	1.6.1996	P
2.14	Driver 2	Gulam Rasul Babu	-	5200-20200	2000	1.7.1996	P
2.15	Supporting staff 1	K. Rajeswaran	-	5200-20200	1800	1.12.1996	P
2.16	Supporting staff 2	V. Xavier		5200-20200	1800	12.11.2001	P

3. Details of SAC meeting conducted during 2014-15: Nil

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2015-16
				June 2015

4. Capacity Building of KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2015 - 16

S. No	New Areas of Training	Institution proposed to attend	Justification
4.1.1	Agriculture related software development	NAARM	Very much essential to create a software for our region farmers
4.1.2	Feed block preparation, TMR preparation technology, rearing green fodder in fodder machine	TANUVAS, IVRI, NDRI	Very much essential to learn about the latest techniques in feed block preparation using the straw which otherwise goes waste as it is machine cut.
4.1.3	Post harvest packaging technology	CIPHET, Ludhiana	Very much essential for product marketing
4.1.4	Latest technologies for drought prone area agriculture	ICRISAT	Essential for implementing the programmes of drought preparedness and contingency plan for the district
4.1.5	Integrated pest management	Pondicherry KVK	Very much essential to learn about bio pesticide management

4.2. Cross-learning across KVKs during 2015-16

S. No	Name of the KVK proposed	Specific learning areas
4.2.1	**Within ring** **KVK Madurai , Ramanathapuram**	Mechanization in agriculture , value addition for millet products ,
4.2.2	**Within the zone** **KVK Mysore , Erode, Karur**	FPOs
4.2.3	**Outside zone –** Baramathi KVK and Ahmednagar	To learn about effective usage of ICT tools in transfer of technology

5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2015 - 16

Sl.No	Name of the KVKs included in the cluster	What do you intend to share with Cluster KVKs	What do you expect from Cluster KVKs
5.1	KVK, Virudhunagar	Prosopis juliflora pod as animal feed and fish culture in ponds	Information in dry land technologies
5.2	KVK, Kanyakumari	Expertise in banana cultivation	information in flower cultivation and marketing
5.3	KVK,Madurai	Expertise in animal science and fisheries	Expertise in Honey bee and banana fiber product preparation
5.4	KVK, Gandhigram	Prosopis juliflora pod as animal feed and fish culture in ponds	Expertise in agro forestry

6. Operational areas details proposed during 2015-16

Sl.No	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Coconut	Lower net income (Rs.30000/ac/yr Red palm weevil, Rhinocerous beetle	Coconut – 80 ha	Siruthanda nallur, Sakkamal puram, Eral, Perungulam	FLD – Mixed cropping with Banana and Lablab
2	Banana	Yield loss due to pest and diseases (20%) , Under utilization of resources Low net profit	Banana – 37ha	Manakkarai Alwarkarkulam Kongaraya kurichi Anandanambi kurichi	FLD-Demonstration On Mixed Cropping System In Coconut Plantation
3	Drumstick	Low yield ,lack of high yield ,off season varieties, Upto 40 % yield loss due to leaf caterpillar and fruitfly Market glut during March-Aug – less price (Rs.20-25/kg)	Moringa -45 ha	Siruthanda nallur, Sakkamal puram, Eral, Perungulam	OFT -Assessment Off Season Production techniques
4	Cluster bean	Water scarcity for Summer crop Poor awareness on high yielding, drought hardy, alternate crops Low net profitability of other crops – commission agents Ground nut area / Second crop area reduced from 100 ha to 15 ha	Loss of main crop	Keelapovani, Melapoovani, Lakhsmipuram	FLD-Demonstration of High yielding Cluster Bean (MDUI) variety
5	Dolichos bean	Reduction in area of cultivation from 164ha to 25 ha – problem of commission agents – low profitability	Dolichos bean	Akkanayakanpatti Otudanpatti Puliyankudi	OFT-Assessment of yield potential of Dolichos bean varieties
6	Chilli	Water scarcity hinders cultivation of second crop during summer Loss of routine crops like Ground nut (50-55%)High production cost of Groundnut and thereby less income	164 ha of garden land in the selected village	Akkanayakanpatti Otudanpatti Puliyankudi	FLD-Demonstration on Chilli cultivation under mulching during summer
7	Dairy cows	1. Cross bred cows giving less milk yield 2100 lit/lactation because of no balanced concentrate feeding except for feeding rice gruel(1kg/day) and wheat bran (2kg/day) (62% of cross bred cows gives less than 8.5 lit of milk per day in Poovani and Akkanayakkanpatti clusters) 2. Infertility in cows due to mineral deficiency in the feed 3. Less returns from dairy	1500 cows in the cluster villages	Vilathikulam Manakkarai Akkanayakkanpatti Poovani Perungulam	• Demonstration For Improvement Of Profitability In Low Yielding Crossbred Dairy Cows • Demonstration For Improvement Of Profitability In High Yielding Crossbred Dairy Cows

		cattle rearing leading to reduction in number of milch cow keeping (50% of farmers (45 persons) gave up rearing milch cows because of less profitablity in Akkanayakanpatti cluster)			
		4. Poor green fodder yield from the existing fodder sorghum variety (kakka cholam) not able to support the demand of cattle maintained 5. Water shortage in summer months resulted in reduction in Co-4 CN fodder cultivation from 10 acres to 0.5 acre 6. Fodder and water shortage in summer months forces the farmers to sell the cattle and goat maintained by them			Demonstration on Green Fodder Cultivation In Drought Prone Area
8	Goat	1. Mortality due to infectious diseases like, Entero toxemia, Anthrax, PPR and Pneumonia and ectoparasitism upto 30 % in adults and 50% in kids 2. No deworming to the kids until the age of 3 months 3. Vaccinating/ Treating the Goat against the diseases only in the phase of outbreak and no preventive vaccination was carried out	5000 goats in the cluster villages	Vilathikulam Manakkarai Akkanayakkanpatti Poovani Perungulam	FLD on mineral lick feeding to goats Veterinary camp, Training,
9	Sheep	1. Mortality due to infectious diseases like sheep pox, Entero toxemia, Anthrax, Blue tongue and Pneumonia and ectoparasitism upto 30 % in adults and 50% in lambs 2. No separate care to the lambs until the age of 3 months and all the excessive ram lambs were sold in the market. only the ewe lambs were	96.6 lakhs in dist. 12000 no.s in the clusters	Vilathikulam Manakkarai Akkanayakkanpatti Poovani Perungulam	FLD on scientific management and comprehensive disease control practices in sheep rearing

		retained for breeding purposes 3. Vaccinating the sheep against the diseases only in the phase of outbreak and no preventive vaccination was carried out 4. vaccination and deworming : vaccination and medication all done without the advise of veterinarian but by peer interaction and as per the advise of medical shop persons in virudhunagar, mostly because of their nomadic nature 5. Deworming is done once in 3-4 months with ivermectin, albendazole and tetramisole in rotation 6. Vaccination against FMD, Sheep pox and PPR during the months of October, December and January months respectively, ET vaccination will be done only during the disease outbreak mostly during July and August 7. No dipping is practiced to control ecto parasites			
10	Poultry	• Non availability/ minimal supply of quality chicks for rearing in the vicinity • Mortality in chicks due to infectious diseases (upto 40%) and prey animals (upto 40%) • Purchase of chicks from unknown supplier results in spread of mycoplasmosis infection (CRD) • Lack of knowledge in proper feeding and rearing methods • Lack of mothering ability with the improved desi chicken breeds.	100 % of the desi fowl population 2500 in the cluster villages	Vilathikulam Manakkarai Akkanayakkanpatti Poovani Perungulam	FLD on oral pellet vaccine to control Ranikhet disease in desi chicken, Training
11	Fish	1. Non availability of round the year water sources 2. Un utilization of river water flowing in irrigation canal for 160 days for fish culture		Manakkarai	Demonstration on Cage fish culture

12	Fish	1. Short period of water bodies 2. Under utilization of farm ponds and village common ponds		Vilathikulam	Demonstration Of Composite Fish Culture With Stunted Fish Yearlings

Abstract of TAR proposed for the year 2015-16

Sl. No	Crop	Title	Village	Amount
1	Paddy	Assessment of Ecological Engineering in ASD (R) 16 Paddy	Manakkarai	8050
2	Ground nut	Assessing the suitability of high yielding short duration groundnut varieties	Akkanayakanpatti	25200
3	Lab Lab	Assessment of yield potential of Dolichos bean varieties	Akkanayakkanpatti	18690
4	Drum stick	Assessment of off season production techniques	Sakkammalpuram	5075
Total				**57015**

7. Technology Assessment during 2015-16

S. No.	Crop/ enterprise		Prioritized problem	Title of intervention	Team members	No. of trials	Parameters to be studied
1	Paddy		Low level of awareness on usage of traps Increased cost of cultivation Stem borer Leaf folder Blast & Bacterial leaf blight	Assessment of Ecological Engineering in control of pest affecting Paddy var.ASD 16	SMS (PP) SMS (Ag)	7	No of plant /m^2 Plant height No of tiller /plant No of seed / tiller 1000 grain wt. Yield B:C ratio No. of pest affected tillers / m^2 Type of pest incidence Egg masses/ m^2
	Technology options		**Source of Technology**	**Name of critical input**	**Qty per trial**	**Cost per trial**	**Total cost for the intervention (Rs.)**
	T1	Farmer Practices	TNAU				8050
	T2	IPM Modules - Certified seed, optimum spacing and fertilizer , sticky trap, synchronized sowing, rope for dislodging, Pheromone trap, Egg card – 5cc/ha weekly, Quinolphos – 650ml/ha	TNAU, 2000	Egg card Pheromone trap	5 cc 5	400 250	
	T3	T2+ Ecological Engineering – Raising combination of crops like sun flower (100g), Cow pea (100g), Marigold (20g) and black gram (100g) sesame, castor	DPPQ & S, Haryana 2004	Seeds (Sunflower, sesame, cow pea, Marigold, black gram and castor e		500	
	TOTAL					1150	

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Team members	No. of trials	Parameters to be studied
2	Ground nut	Labour shortage for harvesting middle man problem Lack of awareness on MN application Diseases affects grain quality Continuous usage of local seeds Low level of awareness on improve, high yielding varities	Assessing the suitability of high yielding short duration groundnut varieties	SMS (Ag) SMS (PP)	7	• No of plant /m2 • No of pod /plant • No of kernel /pod • 1000 kernel wt. • Yield • B:C ratio

	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	Total cost for the intervention (Rs.)
T1	Co -6	TNAU 2010	Co -6 Seed	12 Kg	1200	**24200**
T2	TMV -13	TNAU 2006	TMV -13	12Kg	1200	
T3	TAG 37 / Kadiri -9	UAS 2010	TAG 37 /Kadiri - 9	12Kg	1200	
	TOTAL				**3600**	

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Team members	No. of trials	Parameters to be studied
3	Dolichos bean	• Loss of long duration vegetables crops due to water scarcity • Low level of awareness on high yielding short duration vegetables • Low water level during summer • High production and marketing cost for the other cash crops (ground nut) • Low Production and net return to garden land farmers •	**Assessment Of Bush Type Dolichos Bean Varieties**	SMS (Hort, PP, Agr)	7	**No . Of pods /plant** **No . Of branches /plant** **Days taken for first harvest** **Duration** **yield /ha** **BC ratio**

	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	Total cost for the intervention (Rs.)
T1	Cultivation of Co-14 lab lab	TNAU	Co 14 seeds	1.5kg	750	18690
T2	Cultivation of Arka Amogh	IIHR	Arka Amogh seeds	1.5kg	900	
T3	Cultivation of Arka Soumya	IIHR	Arka Soumya	1.5kg	900	
			Vegetable special	1kg	120	
					2670	

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Team members	No. of trials	Parameters to be studied
4	Drumstick	• Poor cultivation practices (Pest & Disease Mgt) • Market glut – less price (Mar-Aug) • Less awareness on varietal selection • Continuous usage of local seeds • Low Production and net return to Drumstick growers	**Assessment Of Off Season Production techniques**	SMS (Hort, PP, Agr)	7	**Days taken for first flowering** **No. of pods /plant** **Pod length, girth and weight** **Yield /ha** **Consumer / Market preference (taste, texture and colour)** **BCR**

Technology options		Source of Technology	Name of critical input	Qty per trial	Cost per trial	Total cost for the intervention (Rs.)
T1	No pruning	Vilathikulam	Seeds	200g	400	**5075**
T2	Early sowing + pruning+ KNO3 spray	TNAU	KNO3	250g	80	
T3	Early sowing + Pruning + Ethipon spray	TNAU	Ethrel	100ml	125	
			Vegetable special	1kg	120	
				Total	725	

Abstract of FLDs proposed for the year 2015-16 (on order of priority)

Sl. No	Crop	Title	Village	Amount
1.	Paddy	Demonstration on Paddy TPS (R) – 5 in Thamirabarani River Command area	Manakkarai	15050
2.	Sorghum	Demonstration on ICMP in dual purpose Sorghum K (S) 12	Pilayarnatham	4900
3.	Black gram	Demonstration On Rice Fallow Black Gram Cultivation In River Command Area	Manakkarai	12400
4.	Black gram	Demonstration On Black Gram[VBN – 6] with ICMP Practices	Akkanayakanpatti	21100
5.	Green gram	Demonstration On Green gram[CO – 8] in Dry Land Farming	Lakshmipuram	11100
6.	Chilli	Demonstration on Chilli cultivation with mulching during summer	Akkanayakanpatti	45600
7.	Cluster bean	Demonstration of Cluster bean (MDU 1)variety	Lakshmipuram	11200
8.	Coconut	Demonstration On Mixed Cropping System In Coconut Plantation	Siruthandanallur	39000
9.	Dolichos bean	Demonstration on Inter cropping in Banana with Dolichos bean (CO 14)	Manakkarai	21200
10.	Paddy	Demonstration on IPM in Paddy to contain Stem borer and Leaf folder	Lakshmipuram	8000
11.	Banana	Demonstration on Integrated Disease management in Banana	Alwarkarkulam	34500
12.	Drum stick	Demonstration on Ecological pest control in drumstick	Sakkaammalpuram	9600
13.	Dairy Cow	Demonstration for improvement of profitability in High yielding cross bred Dairy cows	Akkanayakkanpatti , Poovani	15975

14.	Dairy Cow	Demonstration for improvement of profitability in Low yielding cross bred Dairy cows	Akkanayakkanpatti , Poovani	3600
15.	Sheep	FLD On Scientific Management And Comprehensive Disease Control Practices In Sheep Rearing	Vilathikulam Akkanayakkanpatti,	25550
16.	Goat	Demonstration on Mineral lick feeding to enhance body weight gain in Goat kids	Akkanayakkanpatti , Poovani Manakkarai	2600
17.	Poultry	Demonstration on Oral Pellet Vaccination to prevent Ranikhet disease in Backyard Poultry	Manakkarai, Poovani Vilathikulam	3000
18.	Fodder	FLD on Green Fodder Cultivation In Drought Prone Area	Akkanayakkanpatti	13000
19.	Fish	Demonstration on Cage fish culture	Manakkarai	3500
20.	Fish	Demonstration Of Composite Fish Culture With Stunted Fish Yearlings	Vilathikulam	30000
21.	Nutrition garden	Demonstration of Nutrition Garden in Schools	5 Cluster Villages	11000
22.	Sweet corn	Demonstration on Sweet corn cultivation	Poovani	6600
Total				**348475**

9. Frontline Demonstrations during 2015-16

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
1	Cereals	Paddy	Low level of aware on improved high yielding varities Lodging problem (50%) in ADT 45 Lack of awareness on IPM practices low yield from the Existing ruling Variety (ASD-16) Continuous usage of local seeds Poor cultivation practices	ICMP in Paddy var. TPS – 5 (TNAU 2002) duration 105 – 110 days S.bold (Y – 6.3 t/ha) INM - Application of organic manures Apply 12.5 t of FYM or compost or green manure raised @ 50 kg seeds/ha Bio fertilizer application Application of inorganic fertilizers – NPK 150 : 50 : 50 Application of zinc sulphate -25 kg /ha Foliar nutrition - Foliar spray of 1% urea + 2% DAP + 1% KCl at Panicle Initiation (PI) and 10 days later for all varieties. IWM - Pre-emergence herbicides - Butachlor 1.25kg/ha IPM and IDM Practices.	Variety	SMS (Ag) SMS (PP)	No of hill / m2 No of tillers / hill No of seed / panicle BC ratio Yield
	Name of the Hybrid or	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the**

	Variety						**Demo (Rs.)**
	TPS (R) – 5		Paddy TPS – 5 Azophos Zinc Sulphate Leaf color chart	24 Kg 1kg 5 Kg 1 **TOTAL**	1200 40 250 15 **1505**	10	15050

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
2	Millets	Sorghum	Low productivity in K-8 variety Crop losses in existing commercial varities due to drought condition in later stage of this crop growth Late maturing long duration commercial varities invites midges attack	ICMP in Sorghum – K – 12 (duration 95 days) – Yield 3123 Kg/ha Seed treatment – Azophos INM - 90 N, 45 P ,45 K kg/ha. Micronutrient mixture 12.5 kg /ha IWM - Apply PE Atrazine @ 0.25 kg/ha on 3-5 DAS IPM and IDM Practices.	Variety	SMS (Ag) SMS (PP)	Population / m^2 No of seed /head 100grain wt. Yield /ha BC ratio Palatability index
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Sorghum K - 12	TNAU 2014	**Sorghum – K – 12 Seed** Azophos **MN Mixture**	**4kg** **1kg** **5 Kg** **TOTAL**	**200** **40** **250** **490**	10	4900

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
3	Pulses	Black Gram	Non utilization of residual moisture for rice fallow black gram cultivation due to terminal drought. Area reduced from 275ha to 0ha in the Manakkarai cluster	ICMP to black gram ADT – 3 (duration - 70 days) yield – (720kg/Ha) Seed treatment – Rhizophos Spraying of diammonium phosphate Foliar spray of pulse wonder @ 5 kg/ha Foliar spray – PPFM IPDM practices	Variety	SMS (Ag) SMS (PP)	No of plant / m^2 No of pod /plant No of seed /pod Yield /ha BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**

	ADT – 3		Seed ADT – 3 Azophos Pulse wonder (F.Contribution) PPFM(F.Contribution)	12kg 1 kg 2kg 1 lit **TOTAL**	1200 40 - - **1240**	10	12400

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
4	Pulses	Black Gram	40% yield loss due to YMV Poor pod filling due to MN deficiency Labour shortage for weeding in time Non availability of latest high yielding varieties in time Heavy usage of Weedicide &High cost of weedicide	ICMP – VBN(Bg) – 6 (TNAU,2010) (crop duration 65-70days, yield 850 kg/ha) Seed treatment - *Pseudomonas fluorescens* @ 10 g/kg seed - Rhizobium Fertilizer application - Apply fertilizers basally before sowing. In Rainfed : 12.5 kg N + 25 kg P2O5 + 12.5 kg K2O +10 kg S*/ha Foliar spray of 1% urea for yield improvement in black gram Foliar spraying to mitigate moisture stress - Foliar spraying of 2% KCl IWM - Pendimethalin 2.5 lit/ha application 3 DAS Quizolofop ethyl @ 50g ai/ha and Imazethepyr @ 50g ai/ha application on 15-20 DAS Pulse wonder spray 5kg/ha IPDM Practices	Variety	SMS (PP) SMS (Ag)	No of plant / m^2 No of pod /plant No of seed /pod No. of infested pods/plant Yield /ha BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	VBN Bg – 7	**TNAU, 2011**	Seed Rhizophos Pulse wonder Twin Wheel Hoe Weeder	8Kg 1Kg 2.25kg 1 **Total**	800 40 270 1000 **2110**	10	21100

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
5	Pulses	Green Gram	40% yield loss due to YMV Poor pod filling due to MN deficiency Labour shortage for weeding in time Non availability of latest high yielding varieties in time	ICMP – CO – 8 (TNAU 2011) (crop duration 65 days, yield- 882kg/ha) Seed treatment - *Pseudomonas fluorescens* @ 10 g/kg seed - Rhizobium Fertilizer application - Apply fertilizers basally before sowing. Rainfed : 12.5 kg N + 25 kg P2O5 + 12.5 kg K2O +10 kg S*/ha Foliar spray of 1% urea for yield improvement in black gram Foliar spraying to mitigate moisture stress - Foliar spraying of 2% KCl IWM - Pendimethalin 2.5 lit/ha application 3 DAS Quizolofop ethyl @ 50g ai/ha and Imazethepyr @ 50g ai/ha application on 15-20 DAS Pulse wonder spray 5kg/ha IPDM Practices	Variety	SMS (Ag) SMS (PP)	No of plant / m^2 No of pod /plant No of seed /pod Weed dry matter /sq.m Yield /ha BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Co – 8		Seed Rhizophos Pulse wonder **TOTAL**	8Kg 1Kg 2.25kg	800 40 270 **1110**	10	**11100**

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
6	Vegetables	Chilli	Water scarcity hinders cultivation of second crop during summer Loss of routine	Introduction of Plastic sheet mulching technology Drip and fertigation (converging with Hort	Variety	SMS (Hort, PP, Agr)	Reduction in irrigation frequency Yield per Ha Income / Ha

			crops like Ground nut (50-55%) High production cost of Groundnut and thereby less income	Dept) Complete package of practice for chilli			Cost of Weeding Net profit BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Variety	TNAU	Plastic sheet mulch 1000sq.m Chilli (KKM1) 200gm	4400 160	4560	10	45600

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
7	Vegetables	Cluster Bean	• Water scarcity for Summer crop • Poor awareness on high yielding, drought hardy, alternate crops • Low net profitability of other crops – commission agents • Ground nut area / Second crop area reduced from 100 ha to 15 ha	Cultivation of MDU 1with Complete package of Practice	Variety	SMS (Hort, PP, Agr)	No of pods/plant Duration Yield/ha BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Variety	TNAU (2015)	MDU 1 seeds Vegetable special	2kg 1kg	1000 120	10	11200

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
8	Plantation	Coconut	•Under utilization of space, water and soil •Lack of information on mixed cropping system •Lower net profit/unit area (Rs. 30000/acre)	Introduction of Banana, Lab lab as mixed crops in coconut plantation	Variety	SMS (Hort, PP, Agr)	Yield per ha Income/ha Net profit BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Variety	TNAU	Banana suckers (400nos0 Dolichos bean seeds(3.0kg)	2400 1 500	3900	10	39000

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
9	Vegetable	Dolichos Bean(CO14)	Mono cropping Under utilization of space, water and soil Lower net profit/unit area(Rs.55000/acre/year in banana) due to single crop	Introduction of Dolichos bean as an intercrop in Banana plantation with ICMP	Variety	SMS (Hort, PP, Agr)	Yield per ha Income/ha Net profit BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	CO 14	TNAU (2009)	Dolichos bean Vegetable special	**4kg** **1kg**	**2000** **120**	10	21200

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
10	Cereals	Paddy	Severe damage of stem borer and leaf folder - 20% in the paddy area 28 ha Indiscriminate usage of chemical pesticide and leads to high cost Yield loss up to 28 % in severe cases	IPM practices includes release of *Trichogramma japonicum* egg card @ 6 cc/ha (stem borer) Release of *T.chilonis* egg card @ 6 cc/ ha (For Leaf folder) Neem soap spraying @three times1.0 lit/ha Cartp hydro chloride - 1.250gm/ha	Variety	SMS (PP) SMS (Ag)	No of Egg masses /m2 No of Dead hearts/m2 B.C Ratio Yield/ha
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	ASD – 16	TNAU	Trichogrammaegg card (japonicum and chilonis) Neem soap	5 cc 750g **TOTAL**	400 400 **800**	10	**8000**

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
11	Fruits	Banana	Heavy incidence of Panama wilt and sigataka leaf spot Heavy yield loss up to 75% in severe cases Lack of knowledge on identification of pest and diseases to take suitable control measures	Integrated practice includes Field sanitation Sucker treatment with Carbandazim (10gm/10 lit of water) – 1time Application of *Pseudomonas flourosence* @50 kg along with Neem cake	Variety	SMS (PP) SMS(Hort)	No of affected plants /Ha at monthly intervals Bunch yield/Ha Net return/Ha B.C Ratio

				@300 Kg/Ha Adoption of proper spacing Spraying of Propiconozole @3gm/lit-3spray Corn injection with Carbandazim (10gm/10 lit of water)			
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Nadu	TNAU	Carbandazim *Pseudomonas florescence* Neem cake Propiconazole	1.5Kg 20Kg 120 Kg 1 lit **TOTAL**	1200 1600 --- 650 **3450**	10	34500

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
12	Vegetables	Drumstick	Heavy infestation of fruit fly and leaf caterpillar and yield loss up to 40% Lesser awareness of pest management by ecological practices High cost of chemical pesticides due to repeated sprays	Ecological pest management practices viz.., Cultural-removal of affected fruits, Fish meal trap 20No/Ha Mechanical- Bird perches-50 Nos/Ha Biological –Soil ragging and application of *Baevaeria bassiana* 5Kg/Ha Botanical-Spray of Neem soap – 2.5 kg /ha	Variety	SMS (PP) SMS (Hort)	No of infested pods / tree Yield / ha B:C ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	PKM-1	TNAU	Fish meal trap Bird perches *Baevaeria bassiana* Neem soap	8No's 50Nos 2 Kg 1kg **TOTAL**	160 0 400 400 **960**	10	9600

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
13	Live stock	Cattle – dairy cow	• less returns from dairy cattle rearing leading to reduction in number of milch cow keeping (50% of farmers (45	Demonstration for improvement of profitability in High yielding cross bred Dairy cows	Cross bred cows	SMS (AS)	Daily milk yield, TS and SNF in Milk, Body weight , Days required for post

			persons) gave up rearing milch cows because of less profitablity in Akkanayakanpatti cluster) • Infertility or delayed fertility due to mineral deficiencies (65% of cows were affected with this this problem in Akkanayakanpatti) • No.of cows in the cluster – 165	1. Mesquite pod flour feeding @ 2kg/cow /day by completely replacing wheat bran/ pearl millet flour feeding (CAZRI , 2005) 2. TANUVAS MM supplement at the rate of 50g daily for cows in lactation (TANUVAS, 2010) 3. Feeding, Breeding and Disease management practices for dairy cows (TANUVAS 2008)			partum 1st oestrus occurrence , No. of Insemination required for conception, CBR
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	-	CAZRI, 2005 TNAUVAS, 2010	Mesquite pod flour TANUVAS Mineral mixture	60 kg 3 Kg	900 165	15	15975

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
14	Live stock	Cattle – Dairy cow	High cost of concentration feeding leading to avoidance of concentrates and feeding only gruel apart from grazing resulted in reduced milk yield and less return from dairy cattle rearing (92% of cross bred cows gives less than 8.5 lit of milk per day) Increased inter calving period due to post partum anoestrum because of mineral deficiencies. (inter calving period is 1.8 years in 50 % of cross bred cows in the village)	Demonstration on low cost feeding technologies for increasing the profitability from low yielding cross bred cows. • GRAND supplement at a dose of 10ml twice daily for cows in lactation (TANUVAS, 2012) • **Feeding, Breeding and Disease management practices for dairy cows (TANUVAS 2008)**	Cross bred cows	SMS (AS)	Daily milk yield, Body weight – 1st week of calving 2nd , 3rd , 4th , 5th & 6th month post calving, Dung consistency – periodical, every fortnight Days required for post partum 1st oestrus occurrence , No. of Insemination services required for conception
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	-	TNAUVAS , 2012 & 2010	GRAND supplement	360 Nos	180	20	3600

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
15	Livestock	Sheep	1. Mortality due to infectious diseases like sheep pox, Entero toxemia, Anthrax, Blue tongue and Pneumonia and ectoparasitism upto 30 % in adults and 50% in lambs 2. No separate care to the lambs until the age of 3 months and all the excessive ram lambs were sold in the market. only the ewe lambs were retained for breeding purposes 3. Vaccinating the sheep against the diseases only in the phase of outbreak and no preventive vaccination was carried out 4. vaccination and deworming : vaccination and medication all done without the advise of veterinarian but by peer interaction and as per the advise of medical shop persons in virudhunagar, mostly because of their nomadic nature 5. Deworming is done once in 3-4 months with ivermectin, albendazole and tetramisole in rotation 6. Vaccination against FMD, Sheep pox and PPR during the months of October, December and January months respectively, ET vaccination will be done only during the disease outbreak	FLD on scientific management and comprehensive disease control practices in sheep rearing * (full details given separately below this table)	Vembur breed	SMS Vet.Sci.	No.of lambs born Weaning percentage Weaning weight Morbidity and Mortality due to infectious diseases BC ratio

			mostly during July and August 7. No dipping is practiced to control ecto parasites				
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo (100 sheep/unit)**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Vembur	TANUVAS 2008	Tetanus toxoid Entero toxemia Vaccine Blue tongue vaccine Pasteurellosis vaccine Niclosamide Mineral lick	200 ml 200 ml 100 dose 100 dose 400 g 10 kg	300 260 300 300 1200 195	10	25550

Vaccine	Time of vaccination
Tetanus toxoid	1st 6-7 wks before lambing 2nd 2-4 wks before lambing For kids- January and for dams sept and October
FMD	1st -4months and then once in 6 months (March and August)
Sheep pox	1st 3months and then once in a year (Feb-March)
enterotoxemia	1st before weaning 2nd -6months and then annually (May to June)
PPR	1st – 3 months and then annually (May)
Anthrax	1st -6months and then once in a year (april-May)
Blue tongue	1st 3 months and then annually (July – sept)

Deworming schedule

Type of worm	De worming
Tape worm	12wks of age with niclosamide @ 100mg/kg bwt
Trematodes	Oxyclosanide @15mg /kg bwt during January and March
Nematodes	Deworming at 3 months interval with tetramisole, closantel , ivermectin, albendazole/fenbendazole in annual rotation

Source TANUVAS 2008

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
16	Livestock	Goat	1. Ill thrift / poor weaning weight in goat kids (avg.5.5kg) 2. Mortality due to infectious diseases like, Entero toxemia, Anthrax, PPR and Pneumonia and ectoparasitism upto 30 % in adults and 50% in kids 3. No deworming to the kids until the age of 3 months	1. Mineral lick feeding to enhance body weight gain in kids 2. Comprehensive disease control practices (details given separately)	Kodi adu	SMS Vet.Sci.	Birth weight Monthly bodyweight Weaning weight Weaning percentage BCR

			4. Vaccinating/ Treating the Goat against the diseases only in the phase of outbreak and no preventive vaccination was carried out				
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo (10 kids/unit)**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Kodi adu	TANUVAS	Mineral lick	2	130	20	2600

Vaccine	Time of vaccination
Tetanus toxoid	1st 6-7 wks before lambing 2nd 2-4 wks before lambing For kids- January and for dams sept and October
FMD	1st -4months and then once in 6 months (March and August)
enterotoxemia	1st before weaning 2nd -6months and then annually (May to June)
PPR	1st – 3 months and then annually (May)
Anthrax	1st -6months and then once in a year (april-May)

Deworming schedule

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Source TANUVAS 2008

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
17	Poultry	Backyard poultry	• Non availability quality chicks for rearing in the vicinity • Mortality in chicks due to infectious diseases (upto 40%) and prey animals (upto 40%) • Purchase of chicks from unknown supplier results in spread of mycoplasmosis infection (CRD)	Demonstration on oral pellet vaccine to prevent ranikhet disease (1st week, 9th week and 12th week of age and repeat after every 6th month) (TANUVAS 2010)	Desi birds	SMS Vet.Sci.	No.of chicks born No. of chicks died due to ranikhet disease No. of chicks died due to predator attack No. of chicks survived upto 3rd month of age BCR

	Name of the Hybrid or Variety	Source of Technology	Name of critical input	Qty per Demo (25 birds/unit)	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)
		TANUVAS 2010	Oral pellet vaccine	3 vial	150	20	3000

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
18	Fodder	Green fodder	• Poor green fodder yield from the existing fodder sorghum variety (kakka cholam) not able to support the demand of cattle maintained • Water shortage in summer months resulted in reduction in Co-4 CN fodder cultivation from 10 acres to 0.5 acre • Fodder and water shortage in summer months forces the farmers to sell the cattle and goat maintained by them	**FLD on Green Fodder Cultivation In Drought Prone Area** Fodder sorghum Co FS-31 - 10 cent (TNAU 2014) Hedge Lucerne- 5 cent Glyricidia and Subabul -5 cent	Variety	SMS (AS)	Fodder yield Palatability

Name of the Hybrid or Variety	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)
Co (FS)-30	TNAU 2013 TANUVAS, 2008	Co (FS)-31 seed – Hedge Lucerne seed Glyricidia seedlings Subabul seedlings	0.5kg 1 kg 25 25 **Total**	Rs.300 Rs. 500 Rs.250 Rs.250 **1300**	10	13000

Sl. No	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Team members	Parameters to be studied
19	Fish	Fish	1. Non availability of round the year water sources 2. Un utilization of river water flowing in irrigation canal for 160 days for fish culture	• Cage culture = 200-300 no.of fries/cu.m (one cage of 1 cu.m size made of bamboo frame, plastic floats and rope is used to culture around 200-300 fish for a period of 4-6 months and able to produce 20-30 kg of fish. All cages have a top cover (Source: TANUVAS,		SMS (Vet.Sci.) SMS (Ag)	• BCR • Fish weight during stocking and harvesting • Yield per ha • Market prize during harvest • Cost of cultivation • Labour requiremen

				2010))			t • Water quality
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
		TANUVAS 2010	Cage net Fish fingerling	5 cu.m 300	200 500 **700**	5	3500

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
20	Fish	Fish	• Short period of water bodies • Under utilization of farm ponds and village common ponds	• Rearing of advanced fry /fingerlings at higher stocking density (2-3 lakhs/acre) fed with natural feed for 10-12 months • Stocking the stunted yearlings @ 2000 nos./ acre in main pond results in vigorous growth within 6-7 months .		SMS (Vet.Sci.) SMS (Ag)	• Body weight of fish during stocking and harvest • Yield /ha • BC ratio
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
		TANUVAS	Fish yearlings	2000	10000	3	30000

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
21	School Garden	Vegetable & Greens	• Poor intake of vegetables by the school children (30 -40 g/day) • high cost of vegetables • Lack of knowledge in multi nutritive value of vegetables and greens among the school going children • Intake of vegetables with toxic residues of pesticides • Lack of utilization of used water	Establishment of nutrition Garden in Schools and Anganwadi centers Effective usage of school campus Establishment of vermicompost unit	Variety	SMS (HS) SMS (Hort)	Vegetables availability – no of days /yr Vegetable yield / harvest /day Amount saved from the garden Increase in quantity of vegetable consumption
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**

			Seed kit (Ridge gourd, Bitter gourd, Bottle gourd, snake gourd, Ash gourd, ladies finger, Tomato, Brinjal, Chilli, Greens)	1	50	10	11000
			Seedlings (Drumstick, Papaya, Curry leaf, Lemon, Guava)	1	50		
			Azophos	1 Kg	40		
			Neem Soap	250gm	100		
			Effective Micro organism –A	1 Liter	60		
			Earthworm	1 Kg	800		
				Total	**1100**		

Sl. No	**Category**	**Crop/ enterprise**	**Prioritized problem**	**Technology to be demonstrated**	**Specify Hybrid or Variety**	**Team members**	**Parameters to be studied**
22	Maize	Sweet Corn	Need for alternative short duration crop for quick return Loss of long duration crops due to drought during the later stage of the crop growth Low water table in the existing water bodies during late summer	Demonstration on sweet corn (variety Priya Source- DMR,2002) cultivation Grading, packing, Labeling and marketing	Variety	SMS (HS) SMS (Hort)	
	Name of the Hybrid or Variety	**Source of Technology**	**Name of critical input**	**Qty per Demo**	**Cost per Demo**	**No. of Demo**	**Total cost for the Demo (Rs.)**
	Priya	DMR,2002	Sweet corn seed	300 gm / 10 cent	660	10	6600

9.23 . Demonstration of Integrated Farming system Model (IFS)

1	Title of the intervention		Demonstration of IFS model			
2	Identified Farmers for IFS demonstration		Existing crops and enterprises	Proposed additional enterprise / technology to be incorporated	Critical inputs	Amount in Rs.
	Name	Village/Block				
1	Madasamy s/o Manimuthu BC farmer 8940238629	Ayanbommaiyapuram / Vilathikulam	**Garden land -3 acres** **Cropping pattern** **Garden land** Coconut, vegetable, maize **Vermi Composting** **Honey bee rearing**	✓ Azolla cultivation ✓ Improved backyard poultry rearing ✓ Guinea fowl rearing ✓ Heifer calf rearing	Azolla rearing unit (Silpaulin sheet (6'x12') (Azolla seed, azofert)	1000
					Cross bred chicken -20 no.s	2000
					Guinea fowl keets – 10 no.s	1500
					Heifer calves -2 no.s	12000
					Total **Less farmers contribution** **ICAR contribution**	**16500** **6500** **10000**
2	Subramani s/o Pungan 9788694463 SC farmer	Akkanayakanpatti / Ottapidaram	**Garden land -2 acres** **Dry land -6 acres** **Cropping pattern** **Garden land** Paddy-Cotton **Dry land** Fodder sorghum/ Sorghum **Livestock** Cows – 3, Heifers – 6 Goat -2 **Composting by pit method**	✓ Pigeon Squab rearing ✓ Improved backyard poultry rearing ✓ Honey bee rearing ✓ Vermicomposting ✓ Biogas unit (balloon method) ✓ Azolla cultivation	Pigeon Squab (5+5)	1000
					Pigeon box -1	4000
					Cross bred chicken – 20 no.s	2000
					Azolla rearing unit (Silpaulin sheet (6'x12') (Azolla seed, azofert)	1000
					Silpaulin Vermi bag + 2 kg of earth worm	4500
					Biogas unit -1 (balloon model)	9000
					Honey bee rearing unit -1 no.	2000
					Total	**23500**
					Farmers contribution	**13500**
					ICAR contribution	**10000**
3	Arumugam s/o Subramaniyan Age -58 yrs SC farmer	Poovani-Lakshmipuram / Karungulam	**Garden land -2 acres** **Dry land -2 acres** **Cropping pattern** **Garden land** Paddy-Cotton/chilli **Dry land** Fodder sorghum/ Sorghum	✓ Pigeon Squab rearing ✓ Improved backyard poultry rearing ✓ Honey bee rearing ✓ Vermicomposting ✓ Biogas unit (balloon	Pigeon Squab (5+5)	1000
					Pigeon box -1	4000
					Cross bred chicken – 10 no.s	1000
					Azolla rearing unit (Silpaulin sheet (6'x12') (Azolla seed, azofert)	1000

			Livestock Cows – 1, Bullock – 2 Goat -2, Poultry desi - 5	method) ✓ Azolla cultivation	Silpaulin Vermi bag + 2 kg of earth worm	4500
					Biogas unit -1 (balloon model)	9000
					Honey bee rearing unit -1 no.	2000
					Total	**22500**
					Farmers contribution	**12500**
					ICAR contribution	**10000**
4	Sundaravinayagam s/o Ganapathi MBC farmer 9962952132	Manakkarai / Karungulam	**Garden land -2 acres** **Wet land -2 acres** **Cropping pattern** **Garden land** Banana /vegetables Green fodder- 15 cent **Wet land** Paddy-Black gram-fallow **Livestock** Cows – 3, Goat -10 Poultry desi - 50	✓ Pigeon Squab rearing ✓ Honey bee rearing ✓ Vermicomposting ✓ Biogas unit (balloon method) ✓ Azolla cultivation	Pigeon Squab (5+5)	1000
					Pigeon box -1	4000
					Azolla rearing unit (Silpaulin sheet (6'x12') (Azolla seed, azofert)	1000
					Silpaulin Vermi bag + 2 kg of earth worm	4500
					Biogas unit -1 (balloon model)	9000
					Total	**19500**
					Farmers contribution	**9500**
					ICAR contribution	**10000**
5	Chandramohan s/o Perumal BC farmer 9443584375	Mangalakurichi Perungulam / Srivaigundam	**Garden land -0.5 acres** **Wet land -21 acres** **Cropping pattern** **Garden land** coconut -0.5 Green fodder- 65 cent **Wet land** Paddy-banana **Livestock** Cows – 2 Goat -10 Poultry desi – 15 Power tiller	✓ Vermicomposting ✓ Biogas unit (balloon method) ✓ Azolla cultivation	Azolla rearing unit (Silpaulin sheet (6'x12') (Azolla seed, azofert)	1000
					Silpaulin Vermi bag + 2 kg of earth worm	4500
					Biogas unit -1 (balloon model)	9000
					Total	14500
					Farmers contribution	4500
					ICAR contribution	**10000**
					Total ICAR contribution for 5 demonstrations	**50000**
3	**Parameters to be observed**		CBR of individual enterprise , Productivity per unit area CBR per unit area , Employment generated			

10 Training for Farmers/ Farm Women during 2015-16

Sl.No	Thematic area	Crop/ Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/ FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
10.1.		School garden	• Poor intake of vegetables by the school children (30 - 40 g/day) • high cost of vegetables • Lack of knowledge in multi nutritive value of vegetables and greens among the school going children • Intake of vegetables with toxic residues of pesticides Lack of utilization of used water	FLD	Importance of nutrition garden for nutritional security	1	20	SMS H.Sc,
10.2.		Sweet corn	Need for alternative short duration crop for quick return Loss of long duration crops due to drought during the later stage of the crop growth Low water table in the existing water bodies during late summer	FLD	Sweet corn cultivation and its value addition	1	20	SMS H.Sc
10.3.	Horticulture	Chilli	Water scarcity, Crop loss due to water stress	FLD	Usage of Plastic sheet mulch in water conservation	1	20	SMS(Hort)
10.4.		Cluter bean	Water scarcity, no suitable high yielding alternate crops	FLD	MDU1 Cluster bean as an alternate crop for better profitability	1	20	SMS(Hort)
10.5.		Coconut	Under utilization of resources, poor income and profit	FLD	Mixed cropping to enhance the net profit in coconut gardens	1	20	SMS(Hort)

10.6.		Banana	Under utilization of resources, poor income and profit	FLD	Inter croppiong in Banana to enhance the profit in Banana	1	20	SMS(Hort)
10.7.		Drumstick	Poor yield , lesser awareness on alternate high yielding varieties, pest and disease mance	OFT	High yielding moringa varieties for better yield and income	1	20	SMS(Hort)
10.8.		Dolichos bean	Low production, reduced income, Lesser awareness on high yielding varieties	OFT	High yielding Dolichos bean varieties for better yield and income	2	20	SMS(hort)
10.9.	Agronomy	Paddy	Low level of aware on improved high yielding varities Lodging problem (50%) in ADT 45 Lack of awareness on IPM practices low yield from the Existing ruling Variety (ASD-16) Continuous usage of local seeds Poor cultivation practices	FLD	ICMP Paddy in Thamirabarani River Command area	2	20	SMS (Ag)
10.10.		Rice fallow pulses	Non utilization of residual moisture for rice fallow black gram cultivation due to terminal drought . Area reduced from 275ha to 0ha in the Manakkarai cluster	FLD	Rice Fallow Black Gram Cultivation In River Command Area	1	20	SMS (Ag)
10.11.		Sorghum	Low productivity in K-8 variety Crop losses in existing commercial varities due to drought condition in	FLD	ICMP in dual purpose Sorghum K (S) 12	1	20	SMS (Ag)

			later stage of this crop growth Late maturing long duration commercial varities invites midges attack					
10.12.		Black gram	40% yield loss due to YMV Poor pod filling due to MN deficiency Labour shortage for weeding in time Non availability of latest high yielding varieties in time	FLD	ICMP Black Gram in Dry Land Farming techniques	1	20	SMS (Ag)
10.13.		Green gram	40% yield loss due to YMV Poor pod filling due to MN deficiency Labour shortage for weeding in time Non availability of latest high yielding varieties in time	FLD	ICMP Green gram In Dry Land Farming techniques	1	20	SMS (Ag)
10.14.		Groundnut	Labour shortage for harvesting Low level of awareness on improve, high yielding varities Continuous usage of local seeds Lack of awareness on gypsum application	OFT	High yielding ground nut varieties for better yield and income	1	20	SMS (Ag)
10.15.	Livestock Production	Backyard poultry rearing	Poor productivity of the desi birds, predator attack, mortality in birds	FLD	Improved backyard poultry rearing	6	120	SMS AS
10.16.		IFS	Reduced profitability and lack of employment due to non adoption of IFS	IFS	Integrating livestock ,and crop and animal residue recycling for IFS	2	40	SMS AS SMS AG
10.17.		Cattle	High production cost	FLD	Profitable dairy farming	2	40	SMS AS

			, production loss due to mastitis , production diseases and infectious diseases and infertility due to poor breeding and feeding practices		practices			
10.18.		Fodder	Non availability of green fodder	FLD	Green fodder cultivation & Preservation	1	20	SMS AS SMs Ag
10.19.		Goat & Sheep	Mortality in goats due to infectious diseases and parasitism	Extension activities Vet.Camp	Feeding and disease management in sheep and goats	2	40	SMS AS
10.20.	Fisheries Production	Fish	Lack of awareness on fresh water fish culture	FLD	Fresh water Ornamental fish culture	1	20	SMS Fish
10.21.		Fish	Non Utilization of potential freshwater bodies	FLD	Composite fish culture and Poly culture	1	20	SMS Fish
10.22.	Plant Protection	Drumstick	Heavy infestation of fruit fly and leaf caterpillar and yield loss up to 40% Lesser awareness of pest management by ecological practices High cost of chemical pesticides due to repeated sprays	FLD	Ecological pest control	1	20	SMS PP
10.23.		Banana	Heavy incidence of Panama wilt and sigataka leaf spot Heavy yield loss up to 75% in severe cases Lack of knowledge on identification of pest and diseases to take suitable control measures	FLD	Integrated Diseases Management	1	20	SMS PP

10.24.		Paddy	Severe damage of stem borer and leaf folder - 20% in the paddy area 28 ha Indiscriminate usage of chemical pesticide and leads to high cost	FLD	Integrated Pest Management	1	20	SMS PP
10.25.						34	640	

* Title of intervention/title of technology, ** Training title should specify the major technology/skill to be transferred.

11. Training for Rural Youth during 2015 – 16

Sl. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/ FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
11.3	Horticulture	Nursery	Under employment, lesser entrepreneurial Opportunities	Training	Quality seedling production under shadehouse using portray	1	20	SMS (Hort)
11.4	Horticulture	Banana	Under employment, lesser entrepreneurial Opportunities	training	Utilization of banana by products through value addition	1	20	SMS(Hort , Home science)
11.7	Home Science	Minor millets	Lack of knowledge on value added products and marketing facilities	FLD	Value addition on minor millets	1	20	SMS HS
11.8	Capacity Building Group Dynamics	WSHG	Lack of knowledge on group dynamics and entrepreneurial skills	Training	Entrepreneurial Development training	1	20	SMS HS
11.9	Livestock Production	Goat rearing	Low productivity	FLD	Goat rearing as an entrepreneurial activitiy	1	20	SMS AS
11.10	Livestock Production	Pigeon	Less awareness	FLD	Pigeon rearing for squab production	1	20	SMS AS
11.11	Livestock Production	Turkey	Non availability and less awareness	FLD	Turkey farming	1	20	SMS AS
11.12	Plant Protection	All Crops	High cost of pesticide	Training	Panchakavya and Poochi viraty Production	1	20	SMS PP
11.13	Plant Protection	Mushroom	Non availability of crops	Training	Spawn and Mushroom Production methods	1	20	SMS PP
						9	180	

12 Trainings for Extension Personnel during 2015 – 16

Sl. No	Thematic area	Training Course Title	No. of Courses	Expected No. of participants	Names of the team members involved
12.1	Agronomy	Recent technology for pulses production and seed production	1	30	SMS (Ag)
12.2	Horticulture	Usage of plastic sheet mulch in vegetable production	1	30	SMS(Hort)
12.3	Home Science	Importance and usage of energy saving devices	1	30	SMS H.S
12.4		Value addition on minor millets	1	30	SMS H.S
12.5	Plant Protection	Organic and Low cost pest control tools and usage	1	30	SMS PP
12.6	Livestock Production & Management	Recent advances in dairy cattle management practices for profitable dairy	1	25	SMS AS
12.7	Livestock Production & Management	Breeds, rearing techniques, fodder and feeding and disease prevention practices	1	25	SMS AS
12.8	Livestock Production & Management	Recent advances in backyard poultry rearing	1	25	SMS AS
12.9	Livestock Production & Management	Recent advances in infertility management in cows	1	25	SMS AS
12.10	Fisheries	Murrel fish culture	1	10	SMS Fish
12.11	Fisheries	Polyculture of Fresh water prawn with Indian major carps (Catla, Rohu and Mrigal)	1	10	SMS Fish
12.12	Fisheries	Catfish culture	1	10	SMS Fish
			12	**280**	

13 Vocational trainings during 2015 – 16

Sl. No	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth etc.)	Expected No. of participants	Sponsoring agency if any	Names of the team members involved
13.2	Horticulture	Nursery establishment and management	1 (5 days)	Youths and HSG's	10		SMS (Hort)
13.3	Home Science	Value addition on minor millets	1 (5 days)	Youth & women	10		SMS H.S
13.4	Home Science	Value addition on banana	1 (5 days))	Youth & women	10		SMS H.S
13.5	Plant Protection	Recent Technology in pest control methods	1 (5 days)	Farmer's & Youth	10		SMS PP
13.6	Livestock Production & Management	Para veterinary training to rural youth	1 (5 days)	Youth	10		SMS AS SMS Ag SMS H.Sci.
			5		**50**		

14 Sponsored trainings during 2015 – 16

Sl. No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele	Expected No. of participants	Sponsoring agency	Names of the team members involved
14.1	Agronomy	Recent technology for pulses seed production	1 (1 day each)	Farmers and youth	40	ATMA	SMS (Ag)
14.2		Recent technology in oil seeds	1 (1 day eah)	Farmers and youth	40	ATMA	SMS (Ag)
14.3	Horticulture	Nursery establishment and management	1	Youths and HSG's	40	ATMA	SMS (Hort)
14.4	Home Science	Post harvest technology and value addition in Banana	1	Farmers and youth	40	ATMA	SMS H.S, Horti
14.5		Post harvest technology and value addition in minor millets	1	Farmers and youth	40	INSIMP	SMS H.Sc, Horti
14.6	Plant Protection	Integrated pest management on paddy	1 (1 day each)	Farmers and youth	40	ATMA	SMS (PP)
14.7	Plant Protection	Banana pest and diseases management	1 (1 day each)	Farmers and youth	40	Reliance	SMS PP
14.8	Livestock Production & Management	Recent advances in dairy cattle management practices for profitable dairy	1	Farmers and youth	40	ATMA	SMS AS
14.9		Goat Breeds, rearing techniques, fodder and feeding, disease prevention practices	1	Farmers and youth	40	ATMA	SMS AS
			9		360		

15. Extension programmes during 2015 – 16

Sl. No.	Extension programme*	No. of programmes or activities	Expected No. of participants	Names of the team members involved
15.1	Advisory Services	500	2500	ALL SMS
15.2	Diagnostic visits	32	520	ALL SMS
15.3	Field Day	12	1200	ALL SMS
15.4	Group discussions	12	2000	ALL SMS
15.5	Kisan Ghosthi			
15.6	Film Show	4	200	ALL SMS
15.7	Self -help groups	50	1000	ALL SMS
15.8	Kisan Mela	1	500	ALL SMS
15.9	Exhibition	12	5000	ALL SMS

15.10	Scientists' visit to farmers field	260	1200	ALL SMS
15.11	Plant/Soil health campaign	12	1200	ALL SMS
15.12	Farm Science Club	12	240	ALL SMS
15.13	Ex-trainees Sammelan	2	250	ALL SMS
15.14	Farmers' seminar/workshop	6	620	ALL SMS
15.15	Method Demonstrations	50	1000	ALL SMS
15.16	Celebration of important days	4	2000	ALL SMS
15.17	Special day celebration	5	5000	ALL SMS
15.18	Exposure visits	10	1000	ALL SMS
15.19	Technology week,	1	750	ALL SMS
15.20	FFS	2	60	SMS AS, Ag & PP
15.21	Farm innovators meet	1	100	ALL SMS
15.22	Awareness programs	20	800	ALL SMS
15.23	Farmers meeting	45	800	ALL SMS
15.24	WSHG Meetings	80	1500	ALL SMS
15.25	PRA	5	120	ALL SMS
15.27	Animal health campaign	24	2500	SMS AS
		606		

16. Activities proposed as Knowledge and Resource Centre during 2015-16

16.1 Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
16.1.1	Technology Park/ Crop cafeteria	Nursery	1 ha	Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag
		Herbal plants	.5 ha	Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag
		Mango	1 ha	Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag
		Coconut(TXD)	3 ha	Farm manager, SMS AS, SMS Hort, SMS P.P
		Coconut (Tall)	0.8ha	Farm manager, SMS AS, SMS Hort, SMS P.P
		Sapota	1 ha	Farm manager, SMS AS, SMS Hort, SMS P.P
		Drumstick	0.4 ha	Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag
		Casuarina	0.4 ha	Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag
		Green fodder (CO-4)	0.2 ha	Farm manager, SMS AS
		High yield guava	0.2 ha	Farm manager, SMS Ass, SMS P.P,
16.1.2	Demonstration Units	Vermicompost unit	1	SMS SS
		Mushroom unit	1	SMS P.P
		Fish rearing unit	3 unit (360sqm)	SMS AS, SMS Fisheries
		Fish farm pond	2 unit (700 sqm)	SMS AS, SMS Fisheries
		Fish hatchery unit	1	SMS As, PA Fisheries
		Mushroom unit	$20m^2$	Farm manager, SMS As, SMS P.P,
		Squab rearing unit	10+10	Farm manager, SMS As, SMS P.P,

		Poultry unit	100	Farm manager, SMS AS, SMS P.P,
		Japanese Quail	100	Farm manager, SMS AS, SMS P.P,
		Vermicompost	20 m^2	Farm manager, SMS AS, SMS P.P,
		Heifer calf rearing unit	5	Farm manager, SMS AS, SMS P.P,
		Poultry hatchery	120 and 240 egg capacity	
16.1.3	Lab Analytical services	Soil and water test lab	250 samples	SMS SS, SMS As,
		Bio tech lab	1000 kg of biofertilizers	SMS AS, SMS P.P
16.1.4	Technology Week	Suitability of high yielding varieties for groundnut, chilli, bajra, sorghum, baby corn, backyard poultry, stunted fingerlings,	2 days	All SMS

16.2 Technological Products

Sl.No.	Category	Name of the product	Quantity (Qtl.)/ Number planned to be produced during 2015-16	Names of the team members involved
16.2.1	Seeds	Sorghum K-12	4	SMS Ag , SMS HS and FM
		Blackgram VBN(Bg)-6	2	SMS Ag , SMS HS and FM
		Greengram Co-6(GG)	2	SMS Ag , SMS HS and FM
		Co -7 (Gg)	2	SMS Ag , SMS HS and FM
		Co (Fs)29	2	SMS Ag , SMS HS and FM
16.2.2	Planting materials			
		Mango , sapota graft plants	5000	SMS Hort, and FM
		Subabul	2000	SMS Hort, and FM
		Glyricidia	2000	SMS Hort, and FM
		Casurina	5000	SMS Hort, and FM
		Vegetable seedling in protray	20000	SMS Hort, and FM
		CN-CO-4	100000 numbers	SMS AS and Ag, FM
16.2.3	Bio-products	Azophos	10qtl	SMS (PP) and Lab assistant
		Rhizophos	10qtl	SMS (PP) and Lab assistant
		Paecilomyces / PPFM	1 qtl	SMS (PP) and Lab assistant
		T.viridi	2 qtl	SMS (PP) and Lab assistant
		Pseudomonas fluroscence	2 qtl	SMS (PP) and Lab assistant
		Mushroom spawn	500 pkts	SMS PP,
16.2.4	Livestock strains	NDC-1 chicks	3000	SMS As, FM
		JQNKL-1 chicks	3200	SMS As, FM
16.2.5	Fish fingerlings	Stunted fingerlings	20000	PA fish, FM

16.3 Technological Information

Sl. No	Category	Technological capsules / Number	Names of the team members involved
16.3.1	Technology backstopping to line departments		
	Agriculture	04	SMS Ag, Pp, Ss
	Horticulture	02	SMS Hort, PP
	Animal Husbandry	04	SMS As
	Fisheries	02	PA Fisheries
	Agricultural Engineering		
	Home science	02	SMS (H.S)
16.3.2	Literature/publication	10	All SMS
16.3.4	Electronic Media	Technological Video preparation -5 no.s	SMS Hort, SMS AG, SMS H.S, PP,SMS AS, LT,FM
16.3.5	Kissan Mobile Advisory Services	1000 farmers	Comp prog, SMS AS, HS, Ag, Hort ,PP
16.3.6	Information on centre/state sector schemes and service providers in the district.	Data may be collected from different agencies. Also indicate time of completion. (June 2015)	Comp prog, SMS AS, HS, Ag, Hort, PP

17. Additional Activities Planned during 2015-16

Sl. No	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
17.1	Coconut development board	Vocational training programme on climbing the coconut and maintanence of tree	6 days long vocational training for 20 persons in each batch for 4 batches	600000	Programme coordinator SMS Agronomy SMS Plant protection SMS Horticulture
17.2	ATMA	Technology week celebrations	5 days long technology week celebrations will be organized for the benefit of 5000 farmers at the district level in KVK during the month of	200000	Programme coordinator All SMS Computer Programmer
17.3.	ATMA	On-Farm Trials	To be conducted to solve the problems that are not covered under KVK OFTs and as per the provisions and requirements of ATMA	500000	Programme coordinator All SMS

18. Revolving Fund

18.1 Financial status

Opening balance as on 01.04.2014 (Rs.in Lakh)	Expenditure incurred during 2014-15 (Rs.in Lakh)	Receipts during 2014-15 (Rs.in Lakh)	Closing balance as on 28.02.2015 (Rs.in Lakh)	closing balance by 28.02.2015 (Including value of material in stock)
3.19	5.00	5.04	3.27	6.20

18.2 Plan of activities under Revolving Fund

S. No.	Proposed activities	Expected output	Anticipated income (Rs.)	Anticipated net income in Rs.	Names of the team members involved
18.2.1	**Poultry chick production**	**2000**	**200000**	**40000**	Dr.V.Srinivasan, SMS Vet.Sci, Damodharan, Farm Manager
18.2.2	Japanese Quail production	3500	105000	**17500**	Dr.V.Srinivasan, SMS Vet.Sci, Damodharan, Farm Manager
18.2.3	Salt lick production	300 kg	18000	**6000**	Dr.V.Srinivasan, SMS Vet.Sci. I..Jeyakumar, Lab.Technician
18.2.4	Nutri mix production	1000 kg	80000	60000	S.Sumathi, SMS Home Sci, Damodharan, Farm Manager
18.2.5	Banana special MN production	1500 kg	150000	**45000**	P.Velmurugan, SMS Hort I.Jeyakumar, Lab Technician
18.2.6	Biofertilizers - Azophos,Rhizophos,	4000 kg	120000	**20000**	I.Jeyakumar, Lab Technician
18.2.7	Pseudomonas fluorescence	200 kg	20000	**6000**	M.Ashokkumar, SMS PP I.Jeyakumar, Lab Technician
18.2.8.	EM production	2000 lit	120000	**40000**	M.Ashokkumar, SMS PP I.Jeyakumar, Lab Technician
18.2.9.	Fruit graft seedlings production under PPP mode	5000 no.s	125000	**25000**	P.Velmurugan, SMS Hort
18.2.10.	HDP in guava under drip	200trees	60000 from 3rd year onwards	40000	P.Velmurugan, SMS Hort K.Dhamodharan FM
18.2.11.	Cluster bean co14 lab lab seed production	1.5qtl	45000	30000	P.Velmurugan, SMS Hort K.Dhamodharan FM
18.2.12.	Vegetables & greens	0.5ac	30000	20000	P.Velmurugan, SMS Hort K.Dhamodharan FM
18.2.13.	Mushroom	100 kg/ month	15000/month	60000	I.Jeyakumar, Lab technician
18.2.14.	Forest saplings	5000nos	52500	35000	K.Dhamodharan FM
				444500	

19. Activities of soil, water and plant testing laboratory during 2015-16

Sl.No.	Type	No. of samples to be analyzed	Names of the team members involved
19.1	Soil	500	A.Jeyakumar, Lab Technician A.Murugan, SMS Agronomy
19.2	Water	100	-do-
19.3	Plant	50	-do-
19.4	Others	50	-do-

20. E-linkage during 2015-16

S. No	Nature of activities	Likely period of completion (please set the time frame)	Time frame	Team members involved
20.1	Title of the technology module to be prepared	Integrated farming system	April 2015	SMS Vet.Sci. Comp.programmer
		Alternative poultry production enterprise	May 2015	SMS Vet.Sci. Comp.programmer
		Haylage preparation and feeding	June 2015	SMS Vet.Sci. Comp.programmer
		Silage preparation and feeding	Dec 2015	SMS Vet.Sci. Comp.programmer
		Broiler goat rearing	July 2015	SMS Vet.Sci. Comp.programmer

		Fodder cultivation and feeding livestock	Aug 2015	SMS Vet.Sci. Comp.programmer
		Clean milk production	Sept 2015	SMS Vet.Sci. Comp.programmer
		Comprehensive disease control in livestock	Oct 2015	SMS Vet.Sci. Comp.programmer
		Cultivation fruit tree- mango, amla, guava, sapota	May 2015	SMS Horticulture Programme coordinator Comp.programmer
		Cultivation of forest trees – casurina and Melia dubia	June 2015	SMS Horticulture Programme coordinator Comp.programmer
		Net house vegetable cultivation	July 2015	SMS Horticulture Programme coordinator Comp.programmer
		High density planting mango and guava	Aug, 2015	SMS Horticulture Programme coordinator Comp.programmer
		Drought mitigation technologies	May 2015	SMS Agronomy Comp. programmer
		Integrated crop management in Paddy	June 2015	SMS Plant Protection, SMS Agronomy Comp. programmer
		ICM in Banana	July 2015	SMS Plant Protection SMS Horticulture, SMS Agronomy Comp. programmer
		ICM in black gram	Aug 2015	SMS Plant Protection, SMS Agronomy Comp. programmer
		Organic farming practices for crop cultivation	Sept 2015	SMS Plant Protection, SMS Agronomy Comp. programmer
		Value added product preparation from amla	May 2015	SMS HS Comp.programmer
		Value added product preparation from millets	June 2015	SMS HS Comp.programmer
		Value added product preparation from baby corn	July 2015	SMS HS Comp.programmer
		Value added product preparation from mango	Aug, 2015	SMS HS Comp.programmer
		Value added product preparation from fish	Sept 2015	SMS HS, SMS Fisheries Comp.programmer
		Value added product preparation from J.quail eggs	Oct. 2015	SMS HS, SMS Vet.Sci. Comp.programmer
		Composite fish culture in seasonal ponds	May 2015	SMS Fisheries Comp.programmer
		Fish rearing in integrated farming system	Aug 2015	SMS Fisheries Comp.programmer
		Back yard ornamental fish rearing	Sept 2015	SMS Fisheries Comp.programmer
20.2	Creation and maintenance of relevant	Ex trainees database	May 2015	Comp.programmer Prog. Cord

	database system for KVK			
		FLD database	June 2015	Comp.programmer Prog. Cord
		OFT database	July 2015	Comp.programmer Prog. Cord
		District profile updation	Jan 2016	Comp.programmer Prog. Cord
20.3	KVK web site in local language		April 2015	All SMS , Computer programmer, Prog. Cord
20.4	Kissan mobile advisory messaging	Creation of farmers database for KMAS	May 2015	All SMS , Computer programmer, Prog. Cord
20.5	OLRS	Updation and submission of all reports in OLRS	Every month	Computer programmer, Prog. Cord

21. Activities planned under Rainwater Harvesting Scheme (only to those KVKs which are already having scheme under Rain Water Harvesting)

S. No	Activities planned	Remarks if any
21.1		
21.2	NA	

22. Innovative Farmer's Meet

Sl.No.	Particulars	Details
22.1	Are you planning for conducing Farm Innovators meet in your district?	Yes
22.2	If Yes likely month of the meet	Sept 2015
22.3	Brief action plan in this regard	A meeting will be convened for the extension officials and NGO representatives regarding farm innovation and the potential farm innovators will be identified with the help of them during the months of April to June. The short listed farm innovators will be visited by the KVK scientist and their farm innovation will be recorded during the month of July – Aug. Then one farm innovators meeting will be organized at the district level in KVK to spread the awareness about the innovations. Then their innovation will be fine tuned with the help of National innovation Fund to make it into a technology and commercially saleable.

23. Farmer's Field School planned

Thematic area	Integrated pest and diseases management in Pulses
Title of the FFS	IPDM in Black gram
Budget proposed in Rs.	Rs 30,000
Prioritized problem:	Heavy infestation of pod borer *Helicoverpa armigera, M testulalisi*- white fly, more than 25%of the plant secondary pest Aphides, Blue butter fly , Leaf hopper, Pod bugs affected parts. Diseases- powdery mildew -16% Yield loss Lack of awareness on DAP (0.5%) spray/Pulse wonder spray. Less yield - 560 kg/ha (40% yield loss) District average yield 786Kg/average yield-560. Area affected –345ha and more than 125 farmers
Village identified	Lakshmipuram
Technologies to be taught	Summer ploughing Seed treatment with Rhiozophos 2g /kg of seed ,T.viride -2g/Kg of seed TNAU Pulse wonder 2.25Kg/Ac Use of pheromone traps for different pests (*spodo* lure and *heli* lure) Follow correct spacing

	Placing bird perches@50Nos/ha Trichogramma Egg card 1.5cc/Ha Application NPV-250ml/Acre Neem soap spraying@750g/ac – 2 times Quinalphos 40S-250 ml/Acre Seed storage methods
Number of farmers to be enrolled	25

Course Curriculum		
S. No	**Particulars**	**Topics covered**
1	Sowing	Seed source, Seed treatment, proper seed rate ,Summer ploughing,
2	Before sowing	Bio fertilizer seed treatment with Rhiozophos 2g /kg of seed ,T.viridi-2g/Kg of seed
3	3rd Week of sowing	Weed Management (Use of tractor drawn weeder)
4	6th Week of sowing	Flower booster application (TNAU Pulse wonder) with IPDM practices
5	8th Week of sowing	Pod initiation stage Pest and disease management practices with IPDM practices
6	10th Week of sowing	Harvesting and seed storage

Budget for FFS

S. No	**Details**	**Unit cost**	**Amount**
1	Demonstration variety (VBN Bg – 7) , Seed Treatment , ICMP		7500
2	IPM Kit @ 25 farmers (Foreceps, neeldle, Lense, Cap, Traps, Egg card and NPV)	25 X Rs.460	11500
3	Printed literature @ Rs. 100 per participant for 27 participants and trainers and charts, colour markers etc…	25 X Rs.100	2500
4	Refreshment expenses for FFS members and resource persons	Rs.30x6 sessions x 25	4500
5	Miscellaneous expenses for logistics support document charges		4000
	TOTAL		**30000**

24. Special programme - Management of Soil health in problematic soil

Scope : Management of soil resources is essential for continued agricultural productivity and protection of the environment.

Current Scenario : The soil calcareousness affects 34 per cent of the area in the Tamil Nadu in Tuticorin district the saline soil covers about 3842 ha, acidic soil covers 55 hectares and alkali soil covers about 4010 hectares of land.

Proposed Block : Udankudi & Thoothukudi

No. of Village : 10 (Kalvilai, Nakanai, Udankudi, Thopur, Menyanapuram, Pitchivilai, etc)

Major Crops : Paddy, Banana, Coconut

Problem : Saline and Alkaline soil

Reclamation : 1. Proper drainage facilities

2. Daincha cultivation (20kg/ha)

3. Organic fertilizer application

4. Gypsum application (500kg/ha)

5. Zinc sulphate (12.5kg/ha)

6. Resistant varities (Paddy TRY - 3)

7. Growing of salt tolerant crops

8. Soil test based fertilizer recommendation

BUDGET REQUIREMENTS				
S. No	**Name of the activity**	**Required number / Acre**	**Amount (Rs)**	**Total Amount**
Demonstration Details :		Q /DEMO	COST /DEMO	20 DEMO TOTAL COST
1	Soil test	1No	50	1000
2	Daincha seed	8 Kg	60	9600
3	Gypsum	200 Kg	400	8000
4	Zinc Sulphate	5kg	50	5000
Other details :				
5	Capacity building training to farmers – 2 batches	100 nos x 1 days	100	10000
6	Organizing farmers fair	100nos x 1day	100	10000
7	Preparation of technical posters/leaflets/ folders / CD	1400nos	1	1400
8	Creation of data bank for 10 villages	10village	500	5000
Total				**50000**

24. Budget - Details of budget utilization (2014-15) Upto 28th Feb. 2015

Sl. No.	Particulars	Sanctioned	Released		Expenditure Rs.
24.1	**Recurring Contingencies**	**BE**	**RE**		
24.1.1	**Pay & Allowances**	8450000	8450000	8450000	82,29,698
24.1.2	**Traveling allowances**	100000	85000	85000	88,044
24.1.3	**Contingencies**				
24.1.4.1	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	255000	50000	50000	2,43,466
B	POL, repair of vehicles, tractor and equipments	217000	50000	50000	1,55,852
C	Meals/refreshment for trainees	90000	20000	20000	54,420
D	Training material	90000	20000	20000	45,516
E	Frontline demonstration except oilseeds and pulses	325000	272000	272000	2,83,540
F	FLD on special Pulses Programme / IFS	50000	10000	10000	25,480
G	On farm testing	38000	38000	38000	32,852
H	Training of extension functionaries	25000	10000	10000	18,215
I	Maintenance of buildings	25000	10000	10000	25,000
J	Extension activities	50000	10000	10000	35,604
H	Farmers field School	30000	10000	10000	14,834
I	Library	5000	0	0	2,900
24.1	**Total Recurring**				
24.2	**Non-Recurring Contingencies**				
24.2.1	**Works**				
24.2.2	**Equipments including SWTL & Furniture**				
24.2.3	**Vehicle** (Four wheeler/Two wheeler, please specify)				
24.2.4	**Library**				
24.2	**Total Non Recurring**				
24.3	**REVOLVING FUND**				
24.4	**GRAND TOTAL (A+B+C)**	**97,50,000**	9035000	9035000	**92,55,421**

25. Details of Budget Estimate (2015-16) based on proposed action plan

Sl. No.	Particulars	BE 2015-16 proposed (Rs.)
25.1	**Recurring Contingencies**	
25.1.1	**Pay & Allowances**	10379520
25.1.2	**Traveling allowances**	200000
25.1.3	**Contingencies**	0
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	255000
B	POL, repair of vehicles, tractor and equipments	217000
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	90000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	50000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	333475
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	57015
G	IFS	50000
H	Training of extension functionaries	25000
I	Maintenance of buildings	25000
J	Extension activities	50000
K	Farmers field School	30000
L	Library	5000
M	Special programme	50000
25.1	**TOTAL Recurring Contingencies**	**11817010**
25.2	**Non-Recurring Contingencies**	
25.2.1	**Works**	
25.2.2	**Furniture and Furnishing the office**	**600000**
	Vessels and Furnishing the hostel	**600000**
	Tractor with trailor and accessories	**1000000**
	Demonstration unit	**500000**
	Farm development	**1000000**
	Fencing and compound wall	**500000**
	Repair and renovation works	**1000000**
25.2.3	**Vehicle** (Four wheeler replacement and Two wheeler additional purchase , please specify)	**0**
25.2.4	**Library** (Purchase of assets like books & journals)	**10000**
25.2	**TOTAL Non-Recurring Contingencies**	**5210000**
25.3	**REVOLVING FUND**	
25.4	**GRAND TOTAL**	**17027010**

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