

ZONAL PROJECT DIRECTORATE – ZONE VIII BANGALORE**PROFORMA FOR ACTION PLAN OF KVKs IN ZONE VIII FOR 2014 - 15****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: pscadkvk@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 – 03 – 2014

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				
2.2	Subject Matter Specialist	Dr.V.Srinivasan	Animal science	15600-39100	5400	8.7.99	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	30.1.01	P
2.5	Subject Matter Specialist	M.Ashok	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	V. Naveen Chandru	Fisheries				
2.8	Programme Assistant	I. Jeyakumar	Lab Assistant				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	1.6.96	P
2.12	Stenographer	A. Vimala	-	5200-20200	2000	1.6.96	P
2.13	Driver 1	Dominic James	-	5200-20200	2000	1.6.96	P
2.14	Driver 2	Gulam Rasul Babu	-	5200-20200	2000	1.7.96	P
2.15	Supporting staff 1	Rajesh	-	5200	1800	1.12.96	P
2.16	Supporting staff 2	Xavier		5200	1800	12.11.01	P

3. Details of SAC meeting conducted during 2013-14

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2014-15
	01-07-2013	General issues		
3.1		AIR Tirunelveli is broadcasting farm news information's daily in the morning for that KVK can send the news so that it will reach the masses soon	AIR Tirunelveli has already been approached it has been decided to broadcast 13weeks program through AIR	
3.2		KVK can introduce the successful farmers and trained farm women for interview to AIR	Mr. Elangovan a progressive farmer from sawyapuram and Mrs. Uthami of Maravamadam village Thoothukudi are going to give their experiences in innovative farming systems adopted by them in AIR Tirunelveli	
3.3		KVK scientists can participate in the AIR talk and interview	All the SMS of SCAD-KVK are regularly recode the latest development in agriculture fields for broadcasting	
3.4		KVK can collaborate with AIR and organize Radio Farm school programme consist of 13 weeks and register farmers for that programme	Efforts are on the farmers for AIR farm school programs	
3.5		Kitchen garden cultivation awareness is very much required for the urban middle class people and they also need quality seed pockets , KVK can train entrepreneurs in this line to help them	Already 4 on campus training have been delivered to women self help group members, extension farm expert folder on kitchen garden establishment and maintenance has also been prepared. A distributed for the beginners	
3.6		Promote the usage of small millets and its cooking methods through the NGOs and other service organization like Lions, rotary clubs	On campus training on small millets have been completed already. Method demonstration on value addition, marketing techniques were thought to the beneficiaries. The value added products are being displayed at SCAD – KVK display board for better understanding	
3.7		While promoting fresh water prawn cultivation do it cautiously with full technical back up as it is very sensitive	One FLD has been designed the popularize the fresh water prawn cultivation along with crab culture and will be implemented during 2014	

3.8		To prevent transmission of endoparasitic egg through coloustrum feeding , it should be treated before feeding this technique can be promoted	It is being followed by the SMS (Animal Science)	
3.9		Veterinary college , KVK and AH department need to integrate in disease control programme and conducting campaigns so that we can avoid unnecessary repetitions	Before finalizing any programme all the concern department personal opinion are thought regularly to avoid repetitions. It is a routine necessary activity of SCAD – KVK	
3.10		Promote oral pellet vaccine for Ranikhet disease control and VCRI Tirunelveli can collaborate in assessing its impact	One FLD programme has been designed in collaboration with VCRI, Tirunelveli to popularize the pellet vaccination for Ranikhet disease	
3.11		Artificial pearl culture technique is ready for commercialization and this can be utilized by KVK	Effort are on to get the full technical detail on artificial pearl culture from CMFRI Tuticorin	
3.12		Do some awareness campaigns for marine fishermen and seashore fishermen regarding the proper usage of fishing net	Off campus training have been planned to create awareness on proper usage of fishing net	
3.13		Create awareness on the fishermen in improving the un hygienic situation prevailing at present in the seashore after landing the fish catch	Through SCAD health care programme hygienic and environment issues are being addressed regularly to the 22 coastal area fisherman community	
3.14		Include some fishermen also in SAC meeting	Trainings are going on to the fisherman communities. Representatives from fisherman communities will be included in the next SAC meeting	
3.15		Puduvalvu project is having good group base in the selected blocks and it is ready to take up the technological support of KVK and ready to help KVK in organizing training programme to them	Effort are on the offer both on and off campus training can sericulture to puduvalvu members	
3.16		Horticulture department is implementing the poly house demonstration in	A special programme on polyhouse cultivation has been included in the 2014acation plan and will be implemented in the coming year	

		thoothukudi KVK can give technological back up to farmers and Horticulture officers in promotion of this technology		
3.17		KVK can link their contact small and marginal farmers to ulavar sandai for marketing their produces	The mushroom and baby con grows an linked with ulavar santhi for effective marketing	
3.18		Link baby corn cultivation farmers to ulavar sandai	The mushroom and baby con grows an linked with ulavar santhi for effective marketing	
3.19		Inform the DD Agribusiness regarding the produces available for marketing once in 15 days. They can spread the information and link the buyers and producers	Regularly SCAD KVK is in touch with	
3.20		Department of agri business gives support for starting value addition business KVK can pass on this message	DD – Agri business to market the product of KVK	
3.21		KVK can promote the IFS models and Micro nutrient usage	A special programme on IFS is already initiated in 10 farmers' field. Training demonstration, FLD, OFT programmes have been delivered on regular basis to add the micro nutrient related problems	
3.22		AH department is ready to take up the technologies available in KVK	SCAD – KVK is regularly touch with JD(AH) and discuss all the important technologies for sharing the information mutually	
3.23		ATMA is ready to give funds for demonstration on oral pellet vaccine , booklet printing , Hydrogel application for drought mitigation, and Technology VCD preparation purposes	Funds of ATMA has been availed for extension activities programmes will be sent in future also for effective usage of ATMA funds	
3.24		KVK can promote organic farmers like him	Organic farming practices in the regular training agenda in all KVK's training programmes to promote organic farmers in Tuticorin	
3.25		Promote the technologies like Precision farming, shade net cultivation, drip and fertigation, net house cultivation	A special programme on shade net cultivation has already been included in 2014 action plan and will be implemented in 2014	
3.26		ACRI killikulam can help the KVK for mushroom	The required spawn bottles are being processed from ACRI, Killikulam	

		cultivation technology both financially and technically as they have a DBT sponsored programme		
3.27		Promote premonsoon sowing with tropiculture for black gram and green gram	Training on premonsoon sowing in black and green gram have already been given	
3.28		Farmers need support for the purchase of agriculture implements to overcome the labour shortage	Farmers are facilitated to avail 50% subsidy for farm implement purpose (SCAD is also providing interest for loan to purchase the same)	
3.29		He has made a presentation of what the progress at the zonal level done by different KVKs and he suggested the following points KVK need to project as what is the impact on the work it has done over the past		
3.30		Kvk need to give scientific feed back to the Research system		
3.31		KVK can buy technology from IIHR for MN mixture , neem and pungam soap preparation and start producing it locally	Effort are on the get IIHR banana special preparation technology from IIHR	
3.32		ICAR can give vaccine production laboratory funds to KVK at least region wise ,TANUVAS can think on this line to commercialise their vaccine through KVKs	Efforts are on the commercialize the vaccines to collaboration with TANUVAS, Tirunelveli, JD (AH), tuticorin	
3.33		KVK can take up farm radio school using successful farmers like Ilango	Mr. Elango is going to record his experience to IFS in AIR, Tirunelveli	
3.34		Promote Natural resource Management like NICRA project	Since there is no provision to avail NICRA project at Tuticorin. SCAD KVK no yet initiates activities in this regard	
3.35		ATMA has to replicate the KVK FLD technologies		
		KVK can support AIR for farm radio school and for daily technological news update		
		KVK can concentrate on		

		fishermen and fish marketing as suggested by Station incharge CMFRI		
		Promote EM, Biochar, biodigester slurry and organic farming	EM – Biochar, organic inputs are regularly produced and supplied can regularization to the needy farmers	

4. Capacity Building of KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2014 - 15

S. No	New Areas of Training	Institution proposed to attend	Justification
4.1.1	Agriculture related software development	Pathanamthitta KVK	Very much essential to create a software for our region farmers
4.1.2	Feed block preparation, salt lick preparation, mineral block preparation	TANUVAS	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 2014-15

S. No	Name of the KVK proposed	Specific learning areas
4.2.1	Within ring - Namakkal KVK	To learn about PPP model of seed production
4.2.2	Within the zone - Kannur KVK and Pathanamthitta	To learn about product branding and marketing techniques
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 2014 - 15

S.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	Expertise in animal science and fisheries	Expertise in dry land technologies
5.2	KVK, Kanyakumari	Expertise in animal science and fisheries	Expertise in Jasmine cultivation
5.3	KVK, Madurai	Expertise in animal science and fisheries	Expertise in Honey bee and banana fibre 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 2014 - 15

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
6.1	Paddy	Low productivity in paddy and short duration Lack of non lodging high yield and saline resistant varieties. Lack of knowledge in INM and ICMP practices	5000	Perunkulam Eral Kalankarai	Fld, Field Day, Field Visits, And Training
6.2	Maize	Lack of Drought tolerant varieties Lack of Short duration varieties and high yield varieties	8500	Sokkalingapuram Kumarapuram vadapatti	Fld, Field Day, Field Visits, And Training
6.4	Blackgram	Lack of Drought tolerant varieties Lack of Short duration varieties Lack of weed management and crop management practices Low yield, lack of high yield varieties.	30000	Puvani Vadanatham jagaveerapandiapuram	Fld, Field Day, Field Visits, And Training
6.4	Green gram	Labour shortage Lack of Drought tolerant varieties Lack of Short duration varieties Lack of weed management and crop management practices Low yield, lack of high yield varieties.	30000	Puvani Vadanatham jagaveerapandiapuram	Oft, Field Day, Field Visits, And Training
	Groundnut	Lack of Drought tolerant varieties Lack of Short duration varieties Lack of knowledge in weedicide usage Labour shortage	8500	Keelamankalam Melamankalam Karaseri	Fld and Oft Field Day, Field Visits, And Training
6.5	Kuthiraivali	Lack of Drought tolerant varieties Lack of Short duration varieties Lack of weed management and crop management practice Low yield ,lack of high yield varieties and	1000	K.P.Thalavaipuram Jegaverapandiapuram	Fld, Field Day, Field Visits, And Training

		value addition for minor millets			
6.6	Coriander	Lack of Drought tolerant varieties Lack of Short duration varieties Low yield ,lack of high yield varieties and technology	1200	Sokkalingapuram Kumarapuram vadapatti	Fld, Field Day, Field Visits, And Training
	Coconut	Lack of IPM practice More pest and disease attack Low yield	8000	Sathankulam udankudi	Fld, Field Day, Field Visits, And Training
6.9	Banana	Lack of IPM practice More pest and disease attack Low yield and lack of aware value addition	9000	Kuddanpuli kulayankarisal	Fld, Field Day, Field Visits, And Training
	Moringa	Low yield ,lack of high yield ,off season varieties and technology	800	Vilathikulam Kalkumi	OFT AND TRAINING
6.11	Dairy cows	Low milk yield in cows due to poor feeding practices	all the low yielding cows maintained by resource poor farmers	Aniyabaranallur, Kalkumi, Kalvilai, Karisalkulam, Velidupatti, Ramanathapuram	OFT AND TRAINING
6.12	Goat	Mortality in goat due to infectious disease Lack of sufficient green fodder for grazing	25% of goat population	Thalavaipuram, Vilathikulam	FLD and Training, FFS
6.13	Poultry	Low laying capacity of desi fowls Mortality in desi birds due to diseases	100 % of the desi fowl population	Vilathikulam, Peroorani, Aniyabaranallur, Kalvilai, jegaveerapandiyapuram	FLD and Training, extension activities
6.15	Fish rearing	Non utilization of seasonal ponds for fish rearing Non availability of fingerlings at Nov and Dec months for stocking Shorter period of water storage in rainfed tanks leads to low body weight gain in fish Lack of knowledge in backyard ornamental fish rearing		Vilathikulam	FLD , Training and extension activities

* Support with problem-cause and interventions diagram

7. Technology Assessment during 2014 - 15

S. No	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
	Cereals Paddy	Susceptible to drought in terminal stages because of water shortage in the dam (10000 ha) Lack of awareness of short duration low yield from the Existing ruling Variety (ASD-16)	Assessing the Suitability of high yielding and short duration paddy varieties for river command area	Anna 4 (TNAU 2010) duration 95 – 100 (Not assessed in Thoothukudi dist) (Y- 4t/ha in rainfed situation)	TNAU 2010	Anna 4	10Kg	400	10	4000	No of hills / m ² , No of tiller /hill, 1000 grain weight, No.of seeds per panicle, Yield / ha BC ratio	SMS(Ag) SMS(PP) SMS(HS)
				Co 51 (TNAU 2013) duration 105 – 115 (Not assessed in Thoothukudi dist) (Y- 6.7 t/ha)	TNAU 2013	Co 51	10Kg	400	10	4000	No of hills / m ² , No of tiller /hill, 1000 grain weight, No.of seeds per panicle, Yield / ha BC ratio	SMS(Ag) SMS(PP) SMS(HS)
				ADT – 45 (TNAU 2002) duration 105 – 115 days (Y- 6.1 t/ha)	TNAU 2002	ADT 45	10Kg	400	10	4000	No of hills / m ² , No of tiller /hill, 1000 grain weight, No.of seeds per panicle, Yield / ha BC ratio	SMS(Ag) SMS(PP) SMS(HS)
7.1	Grounut	Water shortage in critical crop growth stage (50%) low yield of	Assessing the Suitability of high yielding short	TMV(Gn)-7	TNAU 1990	TMV-7 (seed rate 125 kg / ha) Groundnut decorticator -	12.5 Kg 1	1200 5000	10	17000	Germination yield and incidence of pest / disease	SMS(Ag) SMS(PP) SMS(HS)

		Existing Variety TMV -7	duration Groundnut Varieties			manual(CIAE 2005)						
				ICGV 9114 - 4	CRISAT 2007	ST based fertilizer application Seeds ICGV 9114	12.5 kg	1200	10	12000	Germination yield and incidence of pest / disease	SMS(Ag) SMS(PP) SMS(HS)
				Co (Gn) 6	TNAU 2010	ST based fertilizer application Seeds Co (Gn)-6	12.5 Kg	1200	10	12000	Germination yield and incidence of pest / disease	SMS(Ag) SMS(PP) SMS(HS)
7.2	Pulses	Low yield in green gram due to poor plant population in drought affected area	Assessing the utility of Designer seeds for drought Tolerance in Greengram CO 6	Methylobactria m 2o gm /kg Seed treatment with Foliar spray 5 times (TNAU)	TNAU	Methylo bacterium	200m l/Acre	150	10	1500	Germination % No of pod /plant No of seed /pod B:C ratio	SMS(Ag) SMS(PP) SMS(HS)
				Designer seed with foliar spray of methylo bacterium (45 th day &60 th day onwards)		ZnSo4 Polymerl Imida chloprid Carbendasim MN mixture DAP Rhizophos	20gm 24ml 8ml 16gm 160g m 240g m 240g m	156 250 168 148 280	10	13280	Germination % No of pod /plant No of seed /pod B:C ratio	SMS(Ag) SMS(PP) SMS(HS)
				Pusa Hydrogen gel with foliar spray of methylo bacterium (ICAR)	ICAR	Pusa Hydrogen gel 1kg/Acre	1kg/ Acre	2000	10	20000	Germination % No of pod /plant No of seed /pod B:C ratio	SMS(Ag) SMS(PP) SMS(HS)
7.3	Coriander	Low productivity and	assessment of yield	Cultivation of Co-4 coriander	TNAU	Co-4 coriander	15Kg	750	10	7500	Yield/unit area BC ratio	SMS (Hort)

		income , Drought, Lesser awareness on new varieties	parameters of Coriander varieties	variety		seeds						SMS(Ag) SMS(HS)
				Cultivation of Arka Isha coriander variety(multicu lt variety)	TNAU	Arka Isha coriander seeds	15Kg	1000	10	10000	Yield/unit area BC ratio	SMS (Hort) SMS(Ag) SMS(HS)
7.4	Banana	Low level of awareness on new varieties Banana wilt & nematode infestation Lower net income to the growers,	Assessing Udhayam banana with local varieties	Cultivation of robustabanana	TNAU	Robustas Pseudomonas	200 sucke rs 2Pkt	2000 40	5	10200	Bunch weight/plant No.of wilt infested plants/trial BC Ratio	SMS (Hort) SMS (PP)
				Cultivation of g-nine	TNAU	G-nine suckers Pseudomonas	200 sucke rs 2Pkt	2000 40	5	10200	Bunch weight/plant No.of wilt infested plants/trial BC Ratio	SMS (Hort) SMS (PP)
				Cultivation of udhayam	TNAU	Udhayam suckers Pseudomonas	200 sucke rs 2Pkt	2000 40	5	10200	Bunch weight/plant No.of wilt infested plants/trial BC Ratio	SMS (Hort) SMS (PP)
7.6	Brinjal	lower productivity Consumer preference for the white coloured brinjal More demand during off season	Assessing the yield components of KKM1 brinjal with the local varieties	Cultivation of KKM1 with ICM practices (4 ha)	TNAU	KKM 1 seed Neem oil Chlorpyripho s	500g m/ha 10lit/ ha 1lit/h a	160 333 50	10 10 10	1600 3330 500	No of fruits/plant Fruit weight Yield/plant, yield/unit area	SMS (Hort) SMS(Ag) SMS(PP)
				Cultivation of	TNAU	Vilathikulam	500g	160	10	1600	No of fruits/plant	SMS

				KKM1 + Vilathikulam local with ICM (4 ha)		local seed Neem oil Chlorpyripho s	m/ha 10lit/ ha 1lit/h a	333 50	10 10	3330 500	Fruit weight Yield/plant, yield/unit area	(Hort) SMS(Ag) SMS(PP)
				Cultivation of KKM1 + Ottanchathira m local with ICM (4 ha)	TNAU	Ottanchathira m local seed Neem oil Chlorpyripho s	500g m/ha 10lit/ ha 1lit/h a	160 333 50	10 10 10	1600 3330 500	No of fruits/plant Fruit weight Yield/plant, yield/unit area	SMS (Hort) SMS(Ag) SMS(PP)
	Moringa	Less awareness about value addition on moringa Poor intake of moringa products Low income	Assessment of different moringa varieties for value addition	(PKM 1) Moringa leaf soup powder & Moringa leaf biscuit	TNAU	PKM 1 seeds Labelling and packing	500g m/ha	75 1200	10	14500	Moringa leaf powder per kg of leaf Fruit weight No of biscuit per kg of dough Yield/plant Consumer preference (taste, texture and colour) BCR Ratio Nutritive value in 100 gm of biscuit	SMS (HS) SMS (PP) And P.C
				PKM 2 Moringa leaf soup powder & Moringa leaf biscuit	TNAU	PKM 2 seeds	500g m/ha	75	10	750		SMS (HS) SMS (PP) And P.C
				KDM 1 (Bagya) Moringa leaf soup powder & biscuit	USA (Dharwad)	KDM 1Seeds	500g m/ha	100	10	1000		SMS (HS) SMS (PP) And P.C
	Plant Protection	Low yield Lack awareness of IPM technologies	Assessing the on nematode management in Banana	Chemical pesticide usage (Parring with carbofuran 3G	TNAU	Carbofuran 3G	20Kg	1800	10	31,350	Nematode population in soil before and after cultivation ,	SMS (PP) SMS (HS) And P.C

				@ 40 g/corm)							Nematode infestation in % , No of hands/plant, Bunch weight Yield/plant	
				Cultural pest control methods (Parring and pralinage with T.viridi and Verticillium chlamydosporium each at 10g/corm + soil application @ 1.25kg each per ha) + neem cake Soil application @ 750g per plant in two splits during planting and at 4 th Month) + growing antagonistic crop- mary gold	NRCB Trichy	Verticillium chlamydosporium	0.5Kg	250	10		Nematode population in soil before and after cultivation , Nematode infestation in % , No of hands/plant, Bunch weight Yield/plant	SMS (PP) SMS (HS) And P.C
						T.viridi	0.5Kg	150	10			
						Neem cake	5Kg	425	10			
						Border Crop Marry Gold Planting	250Nos	150	10			
	Fish	Lack of awareness about value addition in fish	Assessment of packing technology for value addition in fishery product	cook-chill technology Hot chill technology Retordable packaging	TNFU	Vaccum packaging machine	1	45000	1	50000	Analysing the shelf life of the product. consumer preference – Taste, Texture, colour	SMS (HS) SMS (Fi) And P.C
	Fish	Lack of awareness about value addition	Assessment of hygienic masla dry	Solar drier	TNFU	Solar drier	1	100000	1	100000	Analysing the shelf life of the	SMS (HS) SMS (Fi)

		in Trash fishes Lack of awareness about hygienic handling of fish	fish in trash fishes								product. consumer preference – Taste, Texture, colour	And P.C
Fisheries		Not able to harvest the fish when the pond is full of water	Assessing the performance of cage culture and composite fish culture	Composite fish culture in open pond (carp fingerlings- stocking @ 2-3 no.s/sq.m) stocking @ 8000-10000 fries / acre	TNFU 1985	Composite fish (In Pond)	4500 Nos	1	4500	4500	Fish weight during stocking and harvesting Yield per ha Market prize during harvest Cost of cultivation Labour requirement , Water quality, feeding cost	SMS(FS) SMS(AS) And P.C
				Cage culture = 200-300 no.of fries/cu.m (one cage of 1 cu.m size made of bamboo frame, plastic floats, ropes is used to culture around 200-300 fish for a period of 4-6 months able to produce 20-30 kg of fish. All cages have a top cover	TNFU	Fish fingerling (In Cage) Cage fabrication	1500 Nos 5Nos	1 1	1500 7500	9000	Fish weight during stocking and harvesting Yield per ha Market prize during harvest Cost of cultivation Labour requirement , Water quality, feeding cost	SMS(FS) SMS(AS) And P.C

8. Technology Refinement during 2014 - 15

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
8.1				1								
				2								
				3								
				4								
8.2				1								
				2								
				3								
8.3				1								
				2								
				3								

9. Frontline Demonstrations during 2014 - 15

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	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.)	Parameters to be studied	Team members
9.1	Cereals	Paddy	Labor Shortage and high cost of weeding Weed infestation in early stage and poor yield	Demonstration on Total Mechanization in paddy			TNAU	Rotator for puddling Transplanter power weeder Combined harvester Boom sprayer Straw baler	1 1 1 1 1 1	800 4000 800 1800 800 800	10	90000	No of hills / m No of tiller /hill Yield / ha BC ratio Cost of cultivation for interculture operation	SMS (Ag) SMS (HS) SMS (PP)
9.2	Pulses	Black Gram	Low yield due to YMV attack and usage of Poor quality of Seed in VBN (Bg)-3 (40% yield loss) , yield loss upto 60% due to drought situation (30000 ha area) Improper	Demonstration of Black gram seed Production	Variety	VBN6	TNAU 2011	B.G Seed <i>Rhizophos</i> Pulses wonder Quizolophos Imazethapyr	8Kg 1Kg/Ac 3Kg/Ac 500MI 500MI	800 80 600 200 200	15	28200	No of pod /plant No of seed /pod Yield /ha BC ratio	SMS (Ag) SMS (HS) SMS (PP)

			weed management Non availability of latest high yielding varieties											
9.3		Green Gram	poor quality of Seed and aware of shirt duration varieties Improper weed management	Demonstration of Green gram varieties	Variety	Co – 7	TNAU 2010	Seed <i>Rhizophos</i> Pulses wonder Quizolophos Imazethapyr	8Kg 1Kg/Ac 3Kg/Ac 500ml 500ml	800 80 600 200 200	10	18800	No of pod /plant No of seed /pod Yield /ha BC ratio	SMS (Ag) SMS (HS) SMS (PP)
9.4		Green Gram	Labor Shortage and high cost of weeding Weed infestation in early stage and poor yield	Demonstration on Total Mechanization in Green gram	Variety		TNAU 2010	fertilizer cum seed drill Mechanical motor weeder Tractor mould weeder Combined harvester Boom sprayer		600 800 600 1200 800	40	40000	No of pod /plant No of seed /pod Yield /ha BC ratio	SMS (Ag) SMS (HS) SMS (PP)
9.5	Mill ets	Maize	Lack of awareness high yielding varieties Lack of aware shirt duration	Demonstration on TNAU Maize hybrid Co 6 and its value addition	Hybrid	Co 6	TNAU 2012	Maize hybrid CO 6 seed - Biofertilizers Pseudomonas Atrazine 1.5 Pop corn machine		1000 160 250 420 24000	10	42300	Yield /ha BC ratio Pop corn per kg of maize Consumer preference	SMS (Ag) SMS (HS) SMS (PP)

			varieties and value addition											
9.6		barnyard millets	Lack of aware shirt duration varieties Lack of aware value addition	Demonstration of ICMP on barnyard millets and its value addition	Varity	C0-2	TNAU	Barnyard millets seeds CO 2 Biofertilizers Pseudomonas Atrazine Labelling and packing material	2.gkg/ha 2.5kg/ha 1.5kg/ha	300 160 250 420 12000	10	23300	Yield /ha BC ratio	SMS (Ag) SMS (HS) SMS (PP)
	Plant Protection	Paddy	Low yield Lack awareness of IPM technologies	Demonstration on validation of rice IPM module in the Thoothukudi region	Varity	ASD-16	TNAU 2009	Chlorpitriphos 16 Ec Quinalphos 25 EC LCC Neem soap Egg card	350ml/Ac 350ml/Ac 3Nos 750gm/Ac 10cc	260 240 120 210 400	10	12300	Yield /ha BC ratio	SMS (PP) SMS (Ag) And PC
		Green Gram	Low yield Lack awareness of IPM technologies	Demonstration on IPM complex in Green gram pod borer management	Varity	C0 – 6	TNAU 2011	Green gram seed Pheramon traps NPV 10 ⁻⁹ Neem soap Trizophos	8Kg/Ac 5Nos/Ac 500Ml 1.5Kg 350Ml	800 400 320 250 240	10	20100	No-of Pods/plant No-of seeds/pod No-of affected plans/m2	SMS (PP) SMS (Ag) And PC
		Banana	Low yield Lack awareness of IPM technologies	Demonstration of Integrated pest (pseudo stem weevil) Management in Banana	Varity		TNAU 2013	Banana weevil trap Carbofuran Banana injector	5Nos/Ac 3.5Kg/Ac 4Nos/Ac	2000 490 1600	10	43300	No. of effected tree/Acre Benefit cost ratio	SMS (PP) And PC
		Coconut	Low yield Lack awareness of IPM technologies	Demonstration on integrated pest management in coconut	Varity		TNAU	Entomopathogen fungus Methyl Parathion dust Naphthalene balls Neem seed powder Traps (Red palm	1Kg/Ac 2Kg/Ac 300bas/Ac 12Kg/Ac 5Nos/Ac	150 60 200 240 300	10	14,300	Yield /Acre BC ratio	SMS (PP) SMS (Hort)

								weevil) TNAU Coconut tonic	24Pkt/Ac	480				
9.9	Horti cultu re	Lab lab beans- CO (Gb) 14	No alternate crop for income generation during the off season Lower income to the farmers	Introduction of New CO(Gb)14 bush type lab lab beans & ICM practices for round the year cultivation	Var iety	CO (Gb) 14	TNAU	Llab lab seed vegetable special	3Kg 1Kg	1800 150	10 10	19500	No.ofpods/plant Yield/plant CB ratio	SMS (Hort) SMS (Ag) SMS (PP)
9.10		Corian der	Lower productivi ty due to local seeds Lower income to the farmers No reliable short duration vegetable crop for quick return	Introduction of CO-4 coriander with ICM practices	Var iety	(CO - 4)	TNAU	Coriander Seed	3Kg	900	10	9000	Yield/plant CB ratio	SMS (Hort) SMS (Ag) SMS (PP)
9.11		Chilli	Drought Low level of awareness on drought mitigation Lower net	Demonstration on drought resistance technologies in dry land Chilli	Var iety		TNAU	Methlo bacterium 2lit/ha IIHR vegetable special (3kg/ha)	2lit/ha 3Kg/ha	600 450	10 10	10500	Yield/unit area, plan population /unit area Drought hardiness (General vigour of the plant) BC ratio	SMS (Hort) SMS (Ag)

			income to the growers											
9.12		Chili	Drought, Low productivity, lesser awareness on drought mitigation measures	Demonstration of Water Conservation through Mulching in Brinjal	Variety	KKM-1	TNAU	Plastic sheet mulch	1000nos	15000	5	75000 (50% Farmers Contribution)	Yield/unit area, frequency of irrigation Weed population, BC Ratio	SMS (Hort) SMS (Ag)
9.13		Guava	Low productivity and income Poor usage of space, lesser awareness on HDP	Demonstration on High density planting in Guava	Variety	Arka miruthula	TNAU 2007	Miruthula guava saplings	500Nos	20000	5	100000 (50% farmers Contribution)	yield/unit area, BC ratio	SMS (Hort)
9.14		Protected vegetable cultivation	Low arrival of vegetables during off season Low income to the farmers	Off season vegetable production under net house			TNAU	GI pipe (length 20' x 1/2" dia) Plastic sheet (transparent 15.2 micron) Other fixing materials Hybrid tomato seed	10Nos 210Sq.m 100gm	4500 7350 2500 2000	2	32700	Sesonal vegetable production Net return CB ratio	SMS (Hort) SMS (PP)
	Home Science	Nutritious Roof Garden	Lack of place to grow vegetables, malnutrition and anaemic among	Demonstration of nutritious roof garden round				Green bag Coco peat Silpaulin sheat Vermi compost - Bio fertilizer - Bio char Seed kit (16 variety of	50bags 250Sqft 250Sqft 5Kg 3Kg 5Kg 1	900 5000 6250 50 180 50 30	5	62300	Yield & B:C ratio	SMS (HS) SMS (Hort) & P.C

			women and children, poor usage of available space					vegetable seeds)						
		Green Chilli		Demonstration of high yielding Green Chilli for value addition				Seed Additives (KMS, NaHco3,Mgo Cabinet drier	1Kg/ha	500 3500	10	35500	Yield /ha Green chilli powder per kg of green chilli Consumer preference (taste, texture, colour) Nutritive value in 100 gm of green chilli powder	SMS (HS) SMS (Hort) & P.C
		Banana		Demonstration on value addition in Banana Var.Nendran				Preservatives Packing and labeling material	1 1	500 12000	10	12500	Banana powder per kg of banana No of candy per Kg of pseudostem Banana flower pickle per kg of banana flower Consumer preference	SMS (HS) SMS (Hort) & P.C
9.15	Live	Cattle	High cost	Demonstration			TNAU	GRAND	360 Nos	180	20	16200	Daily milk	SMS

	stock	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 (62% of cross bred cows gives less than 8.5 lit of milk per day in Vedapatti village) Increased inter calving period due to post partum anoestrus because of mineral deficiency	for improvement of production performances in Dairy cows maintained by resource poor			VAS, 2012	supplement SMART MM (Area specific MM) Deworming with Albendazole bolus	9Kg 2	540 90			yield, Body weight – 1 st week of calving 2 nd , 3 rd , 4 th , 5 th & 6 th month post calving, Dung consistency – periodical, every fortnight Days required for post partum 1 st oestrus occurrence , No. of Insemination services required for conception	(AS) And PC
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			es. (inter calving period is 1.8 years in 50 % of cross bred cows in Vedapatti village)											
9.16		Goat	Shortage of grazing land and drought forces the goat rearing farmers to rush the sale of kids by 2-3 month of its age at a cheaper rate (35% of kids born in summer months were sold before 3 months of its age)	Demonstration on Broiler goat rearing Technology			KVK (Calicut)	Concentrate feed Fish oil Liver tonic	50Kg 100ml 100ml	1000 100 100	10	12000	Survival rate Body weight at birth, 1 st 2 nd . 3 rd month and at marketing BC ratio	SMS (AS) And PC
		Poultry	Non availability of quality chicks for rearing Mortality	Demonstration on alternative poultry rearing as a Rural Entrepreneurship			TNAU VAS 2010	Incubator cum hatcher (240 eggs capacity) Improved desi chicks (8weeks Old) NDC-1	1 24	44600 4800	1 2	 100000 (50% Famers	Hatchery unit - % Hatchability & CB Ratio Livability of chicks in %	SMS (AS) And P.C

			in chicks and adult chick to infectious diseases and prey animals 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.				(10+2) + Guine fowl (Nandanam – 1) (8 weeks Old) (10+2) Kaveri deri chicks (8 Weeks Old) (10+2) Turkey Chicks (Nandanam – II) (4 Weeks Old) (10+2) Pigeon Squab (5+5) Pigeon box Brooder cum grower cage Ranikhet Disease oral pellet vaccine Fowl cholera vaccine Fowl pox vaccine Azolla rearing unit (Silpaulin sheet (6'x12') (Azolla seed, azofert)	24	4800	2	Contribution)	Body weight at monthly internal unit state of laying / marketing Hen housed egg production FCR for dozen eggs No. of pigeon Squabs produced & sold CBR	
	Sheep	Mortality in sheep due to	Demonstration on Comprehensiv				Mineral block Oxyclosanide	20 1lit	1600 500	10	44400 (50% Farmers	Livability Morbidity and mortality	SMS (AS) And

			blue tongue, Enterotoxaemia, pasteurellosis, Anthrax and fascioliasis Ill thrift in sheep due to endo and ecto parasitism Poor growth performance and abortion due to mineral deficiency	e Disease Control measures in Sheep			Solution				Contribution)	Body weight CB ratio	P.C
							Ivermectin solution	300ml	200				
							1% Flumethrine pour on preparation	100ml	240				
							Tetanus Toxoid	100dose	300				
							Blue tongue vaccine	50dose	1250				
							Pasteurellosis vaccine	50dose	150				
							Entero toxemia vaccine	100dose	200				
	Finishers	Finishers	Short period of water bodies	Demonstration of composite fish culture with stunted fingerlings			TANU VAS 2000 Fish fingerlings Feed- GNOC Ricebran Transportation	6000Nos 50Kg 50Kg	2400 2000 1000 3000	3	19200	Body weight of fish during harvest Yield /ha BC ratio	SMS (FS) SMS (AS)
		Finishers	Lack of awareness about ornamental fish culture	Demonstration of backyard ornamental fish culture to promote rural Entrepreneurship			TANU VAS 1999 Cement tank Gold fish Gourami Fighter Feed Aerator & other accessories	4 160 160 160 4Pkt	8000 3200 4800 3200 1200 1000	4	85600	Colour of fishes Survival rate BC ratio	SMS (FS) SMS (AS)
		Finishers	Lack of awareness about	Demonstration of polyculture of indian major			TANU VAS 2000 Prawn seeds Fish fingerlings Transportation	1000Nos 1000Nos	700 400 7000	2	9,200	Body weight of fish & prawn during harvest	SMS (FS) SMS

			polyculture	carps (catla, rohu and mrigal with fresh water prawn (<i>Macrobrachium rosenbergii</i>))									Yield /ha BC ratio	(AS)
		Finishers	Lack of awareness about this technology Carnivorous habit	Demonstration of catfish culture (<i>Pangasionodon hypophthalmus</i>)			TANU VAS 2005	Catfish fingerlings Transportation	1000Nos -	3000 5000	2	11000	Body weight of fish during harvest Yield /ha BC ratio	SMS (FS) SMS (AS)
		Finishers	Lack of awareness about this technology Carnivorous habit	Demonstration of Murrel culture (<i>Channa sp.</i>)			TANU VAS 2000	Murrel fingerlings Transportation	1000Nos	3000 3000	2	9000	Body weight of fish during harvest Yield /ha BC ratio	SMS (FS) SMS (AS)

10 Training for Farmers/ Farm Women during 2014 - 15

S.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	Crop Production	Black gram	Low yield Non availability of quality seeds and Pest and disease , drought management practices	FLD	Seed production technology in pulses	2	40	SMS Ag SMS HS, SMS PP
		Paddy	Low production due to imbalance fertilizer application Soil salinity	FLD	ICMP for Paddy	2	40	SMS Ag SMS HS, SMS PP
		Maize	Lack of knowledge on ICMP Low price for commodity	FLD	ICMP for Bajra	2	40	SMS Ag SMS HS, SMS PP
		Greengram	Low yield Non availability of quality seeds and Pest and disease , drought management practices	FLD	Seed production technology in pulses	2	40	SMS Ag SMS HS, SMS PP
		Barnyard millet	Lack of knowledge on value addition, No improved varieties	FLD	Cultivation and ICMP Barnyard millet	3	60	SMS H.sc, SMS Agr, SMS PP
10.2	Horticulture Production	Lab Lab	Non availability of suitable variety for round the year cultivation	FLD	Package of practices for Lab lab with ICM techniques	2	50	SMS Hort, SMS PP, SMS Agr
		Coriander	No improved variety Lower production during off season	FLD	Package of practices for Coriander with ICM techniques	2	50	SMS Hort, SMS PP, SMS Agr
		Moringa	Lower productivity, Bud worm and hairy, caterpillar infestation	FLD	Package of practices for Moringa with ICM techniques	2	50	SMS Hort, SMS PP, SMS Agr
		Brinjal	Seasonality of vegetables, Non availability of seeds	Assessment through OFT	Package of practices for Brinjal with	2	50	SMS Hort, SMS PP, SMS Agr

			when required		ICM techniques			
		Hybrid vegetables	Low productivity High incidence of pest and diseases	Assessment through OFT	Cultivation of Hybrid vegetables under shade net	4	100	SMS Hort, SMS PP, SMS Agr
		Solanaceous vegetables	Non availability of seeds, lack of knowledge on seed production	Training	Scientific seed production techniques for Solanaceous vegetables	2	40	SMS Hort
10.3	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
		cattle	High production cost , production loss due to mastitis , production diseases and infectious diseases and infertility due to poor breeding practices	FLD	Profitable dairy farming practices	6	120	SMS AS
		Dairy cattle	Delayed fertility or infertility in cattle	FLD	Dairy cattle infertility management and prevention	2	40	SMS AS
		Fodder	Non availability of green fodder	FLD	Green fodder cultivation	2	40	SMS AS SMs Ag
		Goat	Mortality in goats due to infectious diseases and parasitism	FLD	Feeding and disease management in goats	6	120	SMS AS
10.4	Home Science	Kuthiraivali	Lack of knowledge on value addition, No improved varieties	FLD	Post harvest technology & Value addition in Sorghum – Branding and marketing of value added	3	60	SMS H.sc, SMS Agr, SMS PP

					products			
		banana	Lack of knowledge on value addition, No improved varieties	FLD	Post harvest technology & Value addition in banana Branding and marketing of value added products	3	60	SMS H.sc, SMS Agr, SMS PP
		Coriander	Lack of knowledge on value addition, No improved varieties	FLD	Post harvest technology & Value addition in coriander Branding and marketing of value added products	3	60	SMS H.sc, SMS Agr, SMS PP
		fish	Lack of knowledge on value addition, No improved varieties	FLD	Post harvest technology & Value addition in fish Branding and marketing of value added products	3	60	SMS H.sc, SMS Hort
		Farm implements	Drudgery to farm women, Lack of awareness on usage of farm implements	Trainings	Usage of different weeders in dry land cultivation	2	40	SMS H.Sc SMS Agr
		Energy saving Devices	Lack of awareness on improved devices, health problems to women	Trainings	Importance of Improved cookery and energy saving devices	2	40	SMS H.Sc
10.5	Plant Protection	Banana	Low yield due to Low awareness on nutrient management low yield due to wilt disease and stem weevil	FLD	Integrated pest and disease management in banana	2	40	SMS PP, SMS Horti
		Paddy	Low yield due to Low awareness on pest management	FLD	Integrated pest management on paddy	2	40	SMS PP, SMS Ag

		Green gram	Low yield due to Low awareness on pest management	FLD	Integrated pest management on green gram and black gram	2	40	SMS PP,SMS Ag
		Chilli	Lack of knowledge for biological pest management	FLD	Biological method of pest control on chilly	2	40	SMS PP, SMS Horti
		Jasmine	Lower productivity, Bud worm and red mite	Trainings	Integrated pest management for jasmine	2	40	SMS PP, SMS Horti
		Pulses	Lack of knowledge on value added product preparation Low price for commodity	FLD	Method of storage for pulses	2	40	SMS PP,SMS Ag
		Coconut	Lack of knowledge for traps in pest management		Integrated pest management for fruit trees	2	30	SMS PP,SMS Ag
		Black gram	Low yield due to Low awareness on pest management		Integrated pest management and store pest	2	60	SMS PP,SMS Ag
		Brinjal			Integrate pest management for organic pest control	2	50	SMS PP,SMS Ag
10.6	Soil Health and Fertility	All crops	Low yield in Problem soil Low yield due to poor soil health and excessive fertilizer application	FLD and Trainings	Soil sampling and importance of analysis	6	120	SMS SS and SMS AG
					Vermicomp osting , Panchakavy a , EM preparation and its usage	6	120	SMS SS , SMS PP,
10.7	PHT and value addition	Banana	Lack of knowledge on value addition	FLD	Preparation of value added product preparation from banana	1	25	SMS HS

		Aonla	Lack of knowledge on value addition	Training	Preparation of value added product preparation from Aonla	1	25	SMS HS
10.8	Capacity Building Group Dynamics	WSHG	Lack of knowledge on group dynamics	Training	Capacity building and group dynamics	5	100	SMS HS
10.9	Farm Mechanization	All crops	Lack of knowledge in farm mechanization	FLD	Mechanized cultivation in various crops	2	50	SMS AG
10.10	Fisheries Production Technologies	Fish	Lack of awareness on fresh water fish culture	FLD	Fresh water Ornamental fish culture	5	100	PA fish
		Fish	Non Utilization of potential freshwater bodies	FLD	Composite fish culture and Poly culture	5	100	PA fish
10.11	Mushroom production	Oyster mushroom			Mushroom cultivation and spawn production	2	40	
10.12	Agro forestry	Casurina and Melia tubia	Lack of knowledge on agro forestry	FLD	Role of agroforestry in increasing the income from farm	4	100	
10.13	Bee Keeping							
10.14	Sericulture							

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

11. Training for Rural Youth during 2014 - 15

S.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
11.1	Crop Production	Paddy	Low yield Non availability of quality seeds and Pest and disease and drought management technology	FLD	Seed production and marketing for higher net income from the unit area and drought management technology	1	30	SMs Ag
		Pulses	Low yield Non availability of quality seeds and Pest and disease	FLD	Seed production and marketing for higher net income from the unit area	1	30	SMs Ag
		Cereals & minor millets	Low yield Non availability of quality seeds and Pest and disease	FLD	Recent advances in crop production for paddy, pulses and millets	1	30	SMs Ag
11.2	Horticulture Production	Hybrid vegetables	Lower productivity during off season, Lower productivity, lower income	trainings	Hitech vegetable cultivation under shade net	2	50	SMS Hort
		Post harvest technology	Wastage of fruits and vegetables, lack of knowledge on preservation	trainings	Post harvest technologies and preservation methods of fruits and vegetables	2	50	SMS Hort, SMS H.Sc
		Nursery management	Under employment/unemployment	Trainings	Production of quality seedlings under shade house and protay	2	50	SMS Hort
11.3	Livestock Production							
		Goat rearing	Low productivity	FFS	Goat rearing as an entrepreneurial activity	3	45	SMs As
		Quail	Non availability	FLD	Quail farming	5	60	SMs As
		Turkey	Non availability	FLD	Turkey farming	2	40	SMs As
11.4	Home Science	Milk	Lack of knowledge	FLD	Value addition on milk and milk	1	20	SMs HSc

			on value added products and marketing facilities		products			
		Prosopis juliflora	Lack of knowledge in the multiple uses of prosopis	FLD	Preparation of value added products from Prosopis juliflora	1	20	SMS H.SC & As
		Minor millets	Lack of knowledge on value added products and marketing facilities	FLD	Value addition on minor millets	2	40	SMs HSc
		Millets	Less subsidiary occupation Seasonal employment Low price for commodity	FLD	Value addition on sorghum and bajra	2	40	SMS Hsc
11.5	Plant Protection	All crops	Lack of knowledge in organic input preparation		Preparation and marketing of organic inputs like vermicompost, panchakavya, EM, Poochivirati	2	40	SMS PP
11.6	Production of Inputs at Site							
11.7	Soil Health and Fertility							
11.8	PHT and value addition							
11.9	Capacity Building Group Dynamics	WSHG	Lack of knowledge on group dynamics and entrepreneurial skills	Training	Entrepreneurial Development training	1	30	SMS HS
11.10	Farm Mechanization							
11.11	Fisheries Production Technologies	Fish	Lack of awareness on hygienic handling of	FLD	Value addition on fish through solar tent drier	2	40	PA Fish

			harvested fish					
		Fish	Low Income	FLD	Value addition on fish	2	40	PA Fish
		Fish	Lack of awareness	FLD	Marine ornamental fish rearing	5	60	PA Fish
11.1 2	Mushroom production	Mushroom	Lack of knowledge on value added products and marketing facilities	FLD	Scientific mushroom production techniques and value addition on mushroom	2	40	SMS PP
11.1 3	Agro forestry							
11.1 4	Bee Keeping							
11.1 5	Sericulture							
	Others, pl. specify							

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

12 Trainings for Extension Personnel during 2014 - 15

S.No	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
12.1	Crop Production	Drought management technology for dry farming	2	40	SMS Ag
		Recent advances in crop production technology	2	40	SMS Ag
		Recent technology for soil moisture conservation	2	40	SMS Ag
12.2	Home Science				
		Importance and usage of energy saving devices	2	50	SMS H.Sc
		Value addition on minor millets	4	80	SMS H.Sc
12.3	Capacity Building and Group Dynamics				
12.4	Horticulture	Precision farming techniques for vegetables and flowers	2	40	SMS hort, SMS Agr, SMS PP
		Commercial Flower cultivation under shade house	2	40	SMS hort, SMS Agr, SMS PP
12.5	Livestock Production & Management	Recent advances in dairy cattle management practices for profitable dairy	1	40	SMS As
		Breeds, rearing techniques, fodder and feeding and disease prevention practices	1	40	SMS As
		Broiler goat rearing technique	1	40	SMS As
		Recent advances in backyard poultry rearing	1	40	SMS As
12.6	Plant Protection	Integrated pest management in	2	40	SMS PP

		cereals			
		Integrated pest management in pulses	2	40	SMS PP
		Organic cultivation and registration methods	2	40	SMS PP
12.7	Farm Mechanization				
12.8	PHT and value addition				
12.9	Production of Inputs at Site				
12.10	Sericulture				
12.11	Fisheries				

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

13 Vocational trainings during 2014 - 15

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
13.1	Crop Production	Integrated farming system practices	2 (2 days)	Youth & women	40		SMS Ag
		Recent advances in dry farming practices	2 (2 days)	Youth & women	40		SMS Ag
		Recent technology for soil moisture conservation	2 (2 days)	Youth & women	40		SMS Ag
13.2	Home Science	Value addition on minor millets	2 (4 days)	Youth & women	40		SMS H.Sc
13.3	Capacity Building and Group Dynamics						
13.4	Horticulture	Commercial nursery establishment	2 trainings, 2days duration for each training	Youth, SHG's	25/training	ATMA	SMS Hort
13.5	Livestock Production & Management	Ram lamb fattening and broiler goat rearing	2 trainings, 5days duration for each training	Youth, SHG's	25/training	ATMA	SMS AS
		Recent advances in backyard	2 trainings, 5days duration for	Youth, SHG's	25/training	ATMA	SMS AS

		poultry rearing	each training				
13.6	Plant Protection	Oyster mushroom cultivation	2 trainings, 2days duration for each training	Youth, SHG's	25/training	ATMA	SMS PP
13.7	Farm Mechanization	Mechanization for rainfed area	2 trainings, 2days duration for each training	Youth, SHG's	25/training	ATMA	SMS PP
13.8	PHT and value addition						
13.9	Production of Inputs at Site						
13.10	Sericulture						
13.11	Fisheries						

* Training title should specify the major technology/skill to be transferred.

14 Sponsored trainings during 2014 - 15

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	Names of the team members involved
14.1	Crop Production	ICMP in paddy	2	Farmers and youth	60	ATMA	SMS Ag,PP
		ICMP in Minor millets	2	Farmers and youth	60	ATMA	SMS Ag,PP,H. Sc
14.2	Home Science	Post harvest technology and value addition in Banana	2	Farmers and youth	60	ATMA	SMS H.Sc, Horti
		Post harvest technology and value addition in minor millets	2	Farmers and youth	60	INSIMP	SMS H.Sc, Horti
14.3	Capacity Building and Group Dynamics	Entrepreneurial development training programme	2 (6 week duration)	Farmers and youth	60	MOFPI	SMS H.Sc, A.Sc
14.4	Horticulture	Commercial nursery establishment	2 trainings, 2days duration for each training	Youth, SHG's	25/training	ATMA	
14.5	Livestock Production & Management	Recent advances in dairy cattle management practices for profitable dairy	2	Farmers and youth	60	ATMA	SMS AS

		Goat Breeds, rearing techniques, fodder and feeding, disease prevention practices	2	Farmers and youth	60	ATMA	SMS AS
14.6	Plant Protection						
14.7	Farm Mechanization						
14.8	PHT and value addition						
14.9	Production of Inputs at Site						
14.10	Sericulture						
14.11	Fisheries						

* Programme title should specify the major technologies/skills to be transferred /refreshed.

15. Extension programmes during 2014 - 15

Sl.No.	Extension programme*	No. of programmes or activities	Expected No. of participants	Names of the team members involved
15.1	Advisory Services	50	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	60	1200	ALL SMS
15.11	Plant/Soil health/Animal health camps	40	4000	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	15	450	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,	2	750	ALL SMS
15.20	FFS	2	60	SMS AS , SMS Ag , SMS PP
15.21	Farm innovators meet	1	25	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	PLF Meetings	24	600	ALL SMS
15.26	PRA	5	120	ALL SMS
15.27	Soil Health Campaign	12	250	SMS Ag, SMS SS, SMS PP
15.28	Animal health campaign	48	1500	SMS AS

16. Activities proposed as Knowledge and Resource Centre during 2014 - 15**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 Horti, , SMS P.P, SMS Ag
		Herbal plants	.5 ha	Farm manager, SMS As, SMS Horti, SMS P.P, SMS Ag
		Mango	1 ha	Farm manager, SMS As, SMS Horti, SMS P.P, SMS Ag
		Coconut(TXD)	3 ha	Farm manager, SMS As, SMS Horti, SMS P.P,
		Coconut (Tall)	0.8ha	Farm manager, SMS As, SMS Horti, SMS P.P,
		Sapota	1 ha	Farm manager, SMS As, SMS Horti, SMS P.P,
		Moringa	0.4 ha	Farm manager, SMS As, SMS Horti, SMS P.P, SMS Ag
		Casurina	0.4 ha	Farm manager, SMS As, SMS Horti, SMS P.P, SMS Ag
		Green fodder (CO-4)	0.2 ha	Farm manager, SMS As,
		Green fodder (CO-3)	0.2 ha	Farm manager, SMS As, SMS P.P,
		Tapioca	1 cent	
		HDP Banana	30 cent	
		Barnyard millet	1 cent	
		Sorghum Co s 30	1 cent	
		Babycorn	1 cent	
16.1.2	Demonstration Units	vermi compost unit	1	SMS S.s
		Mushroom unit	1	SMS P.P
		Fish rearing unit	3 unit (360sqm)	SMS As, PA Fisheries
		Fish farm pond	2 unit (700 sqm)	SMS As, PA Fisheries
		Fish hatchery unit	1	SMS As, PA Fisheries
		Mushroom unit	20m ²	Farm manager, SMS As, SMS P.P,
		Rabit unit	3 +1	Farm manager, SMS As, SMS P.P,
		Poultry	60	Farm manager, SMS As, SMS P.P,
		Japanese Quail	200	Farm manager, SMS

				As, SMS P.P,
		Vermicompost	20 m ²	Farm manager, SMS As, SMS P.P,
		Goat Unit	12 +1	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, SMS Ss
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 2014 - 15	Names of the team members involved
16.2.1	Seeds	Sorghum Co(s)-30	4	SMS Ag , SMS HS and FM
		VBN(Bg)-6	2	SMS Ag , SMS HS and FM
		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
		Barnyard millets	2	SMS Ag , SMS HS and FM
16.2.2	Planting materials	Coconut	3000	SMS Horti, and FM
		Mango , sapota graft plants	5000	SMS Horti, and FM
		Subabul	2000	SMS Horti, and FM
		Glyricidia	2000	SMS Horti, and FM
		Casurina	5000	SMS Horti, and FM
		Vegetable seedling in protray	20000	SMS Horti, and FM
		CN-CO-4	100000 numbers	SMS AS and Ag, FM
16.2.3	Bio-products	Azophos	10qtl	SMS (PP) and Lab assistant

		Rhizopos	10qtl	SMS (PP) and Lab assistant
		Potassium solubilizing bacteria	1qtl	SMS (PP) and Lab assistant
		T.viridi	2 qtl	SMS (PP) and Lab assistant
		Pseudomonas fluorescens	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
		Turkey poult	150	
		Goat kids	10	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 Horti, PP
	Animal Husbandry	04	SMS As
	Fisheries	02	PA Fisheries
	Agricultural Engineering	02	SMS (H.Sc)
	Home science		
16.3.2	Literature/publication	10	All SMS &PA Fisheries
16.3.4	Electronic Media	Technological Video preparation -5 no.s	SMS Horti, SMS AG, SMS H.Sc, PP, SMS As, LT, FM
16.3.5	Kisan Mobile Advisory Services	1000 farmers	Comp prog, SMS As, Hs, Ag, Horti, 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 2013)	Comp prog, SMS As, Hs, Ag, Horti, PP

17. Additional Activities Planned during 2014 - 15

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
17.1	Ministry of Food Processing Industry	Entrepreneurship Development	2 Trainings (each training for 6	2 Progms x 2 lakhs = Rs 4	SMS H.Sc, SMS A.S, SMS Hort

		Programme	weeks)	lakhs	
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18. Revolving Fund

18.1 Financial status

Opening balance as on 01.04.2012 (Rs.in Lakh)	Expenditure incurred during 2012-13 (Rs.in Lakh)	Receipts during 2012-13 (Rs.in Lakh)	Closing balance as on 31.01.2013 (Rs.in Lakh)	Expected closing balance by 31.12.2013 (Including value of material in stock)
5.23	2.98	2.23	3.0	6.0

18.2 Plan of activities under Revolving Fund

S.No.	Proposed activities	Expected output	Approximate expenditure (Rs.)	Anticipated income (Rs.)	Names of the team members involved
18.2.1	Improved poultry chick production	3000	75000	150000	SMS (AS) and FM
18.2.2	Co-4 Fodder slip production	100000	25000	50000	SMS (AS) and FM
18.2.3	Goat kid production	10	12000	30000	SMS (AS) and FM
18.2.4	Paddy seed production under PPP mode	10qtl	15000	25000	SMS (Ag) and SMS (PP)
18.2.5	Blackgram seed production under PPP mode	10 qtl	45000	55000	SMS (Ag) and SMS (PP)
18.2.6	Pearl millet seed production under PPP mode	10 qtl	15000	25000	SMS (Ag) and SMS (PP)
18.2.7	Barnyard millet seed production under PPP mode	2 qtl	6000	7000	SMS (Ag) and SMS (PP)
18.2.8	Sorghum seed production under PPP mode	10 qtl	15000	25000	SMS (Ag) and SMS (PP)
18.2.9	Biofertilizer production				
	Azophos	10 qtl	30000	38000	SMS (PP) and Lab assistant
	Rhizophos	10qtl	30000	38000	SMS (PP) and Lab assistant
	Potassium solubilizing bacteria	1 qtl	3000	3800	SMS (PP) and Lab assistant
18.2.10	Biocontrol agents				
	Pseudomonas	2 qtl	15000	20000	SMS (PP) and Lab assistant
	Trichoderma viridi	2 qtl	15000	20000	SMS (PP) and Lab assistant
	Metarizhium sp.	1 qtl	8000	10000	SMS (PP) and

					Lab assistant
18.2.11	Vermicompost	100 qtl	60000	80000	SMS (PP) and Lab assistant
18.2.12	Earthworm	0.2 qtl	0	20000	SMS (PP) and Lab assistant

19. Activities of soil, water and plant testing laboratory during 2014 - 15

Sl.No.	Type	No. of samples to be analyzed	Names of the team members involved
19.1	Soil	250	SMS SS, SMS Ag
19.2	Water	50	SMS SS
19.3	Plant	20	SMS SS
19.4	Others	20	SMS SS

20. E-linkage during 2014 - 15

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
20.1	Website updating	Daily	Action plan, Monthly event
20.2	Text SMS and Voice SMS	June 2013	
20.3	District Profile, Weather Details, Crop Production Details	August 2013	
20.4	Trainees and Training database	August 2013	Title wise, area wise and SMS wise

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		

22. Innovative Farmer's Meet

Sl.No.	Particulars	Details
22.1	Are you planning for conducting Farm Innovators meet in your district?	Yes
22.2	If Yes likely month of the meet	September
22.3	Brief action plan in this regard	

23. Farmer's Field School planned

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.
23.1	Goat rearing	Scientific goat rearing with the emphasis on comprehensive disease control	50000

24. Budget - Details of budget utilization (2012-13) up to 31 January 2013**(Rs.)**

S. No.	Particulars	Sanctioned	Released	Expenditure
24.1	Recurring Contingencies			
24.1.1	Pay & Allowances	6075000	6075000	6078427
24.1.2	Traveling allowances	150000	150000	149150
24.1.3	Contingencies			
24.1.4.	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	340000	340000	337680
<i>I</i>				
<i>B</i>	POL, repair of vehicles, tractor and equipments	300000	300000	296115
<i>C</i>	Meals/refreshment for trainees (@Rs.75/day/trainee for residential and @ Rs.40/day/trainee for non-residential trainings)	80000	80000	79840
<i>D</i>	Training material (need based materials and equipments for conducting the training)	80000	80000	79516
<i>E</i>	Frontline demonstration	330000	330000	328385
<i>F</i>	FLD on special Pulses Programme			
<i>G</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	65000	65000	64255
<i>H</i>	Training of extension functionaries	25000	25000	24500
<i>I</i>	Maintenance of building	25000	25000	24815
<i>J</i>	Extension Activities	25000	25000	24650
<i>K</i>	Farmers' Field School	25000	25000	24865
<i>L</i>	Library (Purchase of Journal, Periodicals, News Paper and Magazines)	5000	5000	4955
24.1	Total Recurring	7525000	7525000	7517153
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	7525000		7517153
24.4	GRAND TOTAL (A+B+C)			

25. Details of Budget Estimate (2014 - 15) based on proposed action plan

S. No.	Particulars	BE 2014 - 15
24.1	Recurring Contingencies	
24.1.1	Pay & Allowances	7290000
24.1.2	Traveling allowances	200000
24.1.3	Contingencies	
24.1.4	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	600000
<i>A</i>		
<i>B</i>	POL, repair of vehicles, tractor and equipments	400000
<i>C</i>	Meals/refreshment for trainees (@Rs.75/day/trainee for residential and @ Rs.40/day/trainee for non-residential trainings)	200000
<i>D</i>	Training material (need based materials and equipments for conducting the training)	200000
<i>E</i>	Frontline demonstration	456190
<i>F</i>	FLD on special Pulses Programme	0
<i>G</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	72040
<i>H</i>	Training of extension functionaries	50000
<i>I</i>	Maintenance of building	50000
<i>J</i>	Extension Activities	50000
<i>K</i>	Farmers' Field School	50000
<i>L</i>	Library (Purchase of Journal, Periodicals, News Paper and Magazines)	10000
24.1	Total Recurring	9628230
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	9628230
24.4	GRAND TOTAL (A+B+C)	9628230