**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

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name and address of KVK with Phone, Fax and e-mail</th>
<th>Name and address of host organization</th>
<th>Year of sanction</th>
<th>Website address of KVK and date of last update</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Krishi Vigyan Kendra, Social Change and Development(SCAD) Vagaikulam, Mudivaithanendal Post Thoothukudi 628102 Phone and Fax: 0461-2269306 Email: <a href="mailto:pcscadkvk@gmail.com">pcscadkvk@gmail.com</a> Website: <a href="http://www.scadkvk.org">www.scadkvk.org</a></td>
<td>Social Change And Development Bye Pass Road, Vannarpettai Tirunelveli Ph: 0462-2501008, Fax: 0462-2501007 Email: <a href="mailto:scb_scad@yahoo.com">scb_scad@yahoo.com</a></td>
<td>1995</td>
<td><a href="http://www.scadkvk.org">www.scadkvk.org</a> 01 – 02 – 2015</td>
</tr>
</tbody>
</table>

### 2. Details of staff as on date

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Sanctioned post</th>
<th>Name of the incumbent</th>
<th>Discipline</th>
<th>Existing Pay band</th>
<th>Grade Pay</th>
<th>Date of joining</th>
<th>Permanent/Temporary</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Programme Coordinator</td>
<td>Dr.G.Alagukannan</td>
<td>Horticulture</td>
<td>37400 – 67000</td>
<td>9000</td>
<td>1.8.2013</td>
<td>P</td>
</tr>
<tr>
<td>2.2</td>
<td>Subject Matter Specialist</td>
<td>Dr.V.Srinivasan</td>
<td>Animal science</td>
<td>15600-39100</td>
<td>5400</td>
<td>8.7.1999</td>
<td>P</td>
</tr>
<tr>
<td>2.3</td>
<td>Subject Matter Specialist</td>
<td>S. Sumathi</td>
<td>Home science</td>
<td>15600-39100</td>
<td>5400</td>
<td>1.12.2000</td>
<td>P</td>
</tr>
<tr>
<td>2.4</td>
<td>Subject Matter Specialist</td>
<td>P.Velmurugan</td>
<td>Horticulture</td>
<td>15600-39100</td>
<td>5400</td>
<td>30.1.2001</td>
<td>P</td>
</tr>
<tr>
<td>2.5</td>
<td>Subject Matter Specialist</td>
<td>M.Ashok Kumar</td>
<td>Plant protection</td>
<td>15600-39100</td>
<td>5400</td>
<td>17.8.2009</td>
<td>P</td>
</tr>
<tr>
<td>2.6</td>
<td>Subject Matter Specialist</td>
<td>A.Murugan</td>
<td>Agronomy</td>
<td>15600-39100</td>
<td>5400</td>
<td>18.07.2011</td>
<td>P</td>
</tr>
<tr>
<td>2.7</td>
<td>Subject Matter Specialist</td>
<td>Vacant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.8</td>
<td>Programme Assistant</td>
<td>I. Jeyakumar</td>
<td>Lab Assistant</td>
<td>9300-34800</td>
<td>4200</td>
<td>12.07.2013</td>
<td>P</td>
</tr>
<tr>
<td>2.9</td>
<td>Computer Programmer</td>
<td>J. Jove</td>
<td>Computer science</td>
<td>9300-34800</td>
<td>4200</td>
<td>01.04.2011</td>
<td>P</td>
</tr>
<tr>
<td>2.10</td>
<td>Farm Manager</td>
<td>K. Damodaran</td>
<td>Agriculture</td>
<td>9300-34800</td>
<td>4200</td>
<td>31.8.2009</td>
<td>P</td>
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<tr>
<td>2.11</td>
<td>Accountant/Superintendent</td>
<td>S.S. Ganesan</td>
<td>-</td>
<td>9300-34800</td>
<td>4200</td>
<td>1.6.1996</td>
<td>P</td>
</tr>
<tr>
<td>2.12</td>
<td>Stenographer</td>
<td>A. Vimala</td>
<td>-</td>
<td>5200-32000</td>
<td>2000</td>
<td>1.6.1996</td>
<td>P</td>
</tr>
<tr>
<td>2.13</td>
<td>Driver 1</td>
<td>Dominic James</td>
<td>-</td>
<td>5200-20200</td>
<td>2000</td>
<td>1.6.1996</td>
<td>P</td>
</tr>
<tr>
<td>2.14</td>
<td>Driver 2</td>
<td>Gulam Rasul Babu</td>
<td>-</td>
<td>5200-20200</td>
<td>2000</td>
<td>1.7.1996</td>
<td>P</td>
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<tr>
<td>2.15</td>
<td>Supporting staff 1</td>
<td>K. Rajeswaran</td>
<td>-</td>
<td>5200-20200</td>
<td>1800</td>
<td>1.12.1996</td>
<td>P</td>
</tr>
<tr>
<td>2.16</td>
<td>Supporting staff 2</td>
<td>V. Xavier</td>
<td>-</td>
<td>5200-20200</td>
<td>1800</td>
<td>12.11.2001</td>
<td>P</td>
</tr>
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</table>
3. Details of SAC meeting conducted during 2014-15: Nil

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Date</th>
<th>Major recommendations</th>
<th>Status of action taken in brief</th>
<th>Tentative date of SAC meeting proposed during 2015-16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>June 2015</td>
</tr>
</tbody>
</table>

4. Capacity Building of KVK Staff

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

<table>
<thead>
<tr>
<th>S. No</th>
<th>New Areas of Training</th>
<th>Institution proposed to attend</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1.1</td>
<td>Agriculture related software development</td>
<td>NAARM</td>
<td>Very much essential to create a software for our region farmers</td>
</tr>
<tr>
<td>4.1.2</td>
<td>Feed block preparation, TMR preparation technology, rearing green fodder in fodder machine</td>
<td>TANUVAS, IVRI, NDRI</td>
<td>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.</td>
</tr>
<tr>
<td>4.1.3</td>
<td>Post harvest packaging technology</td>
<td>CIPHET, Ludhiana</td>
<td>Very much essential for product marketing</td>
</tr>
<tr>
<td>4.1.4</td>
<td>Latest technologies for drought prone area agriculture</td>
<td>ICRISAT</td>
<td>Essential for implementing the programmes of drought preparedness and contingency plan for the district</td>
</tr>
<tr>
<td>4.1.5</td>
<td>Integrated pest management</td>
<td>Pondicherry KVK</td>
<td>Very much essential to learn about bio pesticide management</td>
</tr>
</tbody>
</table>

4.2. Cross-learning across KVKs during 2015-16

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

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

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the KVKs included in the cluster</th>
<th>What do you intend to share with Cluster KVKs</th>
<th>What do you expect from Cluster KVKs</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>KVK, Virudhunagar</td>
<td>Prosopis juliflora pod as animal feed and fish culture in ponds</td>
<td>Information in dry land technologies</td>
</tr>
<tr>
<td>5.2</td>
<td>KVK, Kanyakumari</td>
<td>Expertise in banana cultivation</td>
<td>information in flower cultivation and marketing</td>
</tr>
<tr>
<td>5.3</td>
<td>KVK, Madurai</td>
<td>Expertise in animal science and fisheries</td>
<td>Expertise in Honey bee and banana fiber product preparation</td>
</tr>
<tr>
<td>5.4</td>
<td>KVK, Gandhigram</td>
<td>Prosopis juliflora pod as animal feed and fish culture in ponds</td>
<td>Expertise in agro forestry</td>
</tr>
</tbody>
</table>
### 6. Operational areas details proposed during 2015-16

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Major crops &amp; enterprises being practiced in cluster villages</th>
<th>Prioritized problems in these crops/ enterprise</th>
<th>Extent of area (Ha/No.) affected by the problem in the district</th>
<th>Names of Cluster Villages identified for intervention</th>
<th>Proposed Intervention (OFT, FLD, Training, extension activity etc.)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Coconut</td>
<td>Lower net income (Rs.30000/ac/yr) Red palm weevil, Rhinoceros beetle</td>
<td>Coconut – 80 ha</td>
<td>Siruthanda nallur, Sakkamal puram, Eral, Perungulam</td>
<td>FLD – Mixed cropping with Banana and Lablab</td>
</tr>
<tr>
<td>2</td>
<td>Banana</td>
<td>Yield loss due to pest and diseases (20%), Under utilization of resources Low net profit</td>
<td>Banana – 37ha</td>
<td>Manakkarai Alwarkarkulam Kongaraya kurichi Anandanamambi kurichi</td>
<td>FLD-Demonstration On Mixed Cropping System In Coconut Plantation</td>
</tr>
<tr>
<td>3</td>
<td>Drumstick</td>
<td>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)</td>
<td>Moringa – 45 ha</td>
<td>Keelapovani, Melapoovani, Lakshmpuram</td>
<td>OFT -Assessment Off Season Production techniques</td>
</tr>
<tr>
<td>4</td>
<td>Cluster bean</td>
<td>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</td>
<td>Loss of main crop</td>
<td>Keelapovani, Melapoovani, Lakshmpuram</td>
<td>FLD-Demonstration of High yielding Cluster Bean (MDUI) variety</td>
</tr>
<tr>
<td>5</td>
<td>Dolichos bean</td>
<td>Reduction in area of cultivation from 164ha to 25 ha – problem of commission agents – low profitability</td>
<td>Dolichos bean</td>
<td>Akkanayakanpatti Otudanpatti Puliyankudi</td>
<td>OFT-Assessment of yield potential of Dolichos bean varieties</td>
</tr>
<tr>
<td>6</td>
<td>Chilli</td>
<td>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</td>
<td>164 ha of garden land in the selected village</td>
<td>Akkanayakanpatti Otudanpatti Puliyankudi</td>
<td>FLD-Demonstration on Chilli cultivation under mulching during summer</td>
</tr>
<tr>
<td>7</td>
<td>Dairy cows</td>
<td>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 Akkanayakanpatti clusters ) 2. Infertility in cows due to mineral deficiency in the feed 3. Less returns from dairy</td>
<td>1500 cows in the cluster villages</td>
<td>Vilathikulam Manakkarkai Akkanayakanpatti Pooovani Perungulam</td>
<td>Demonstration For Improvement Of Profitability In Low Yielding Crossbred Dairy Cows  Demonstration For Improvement Of Profitability In High Yielding Crossbred Dairy Cows</td>
</tr>
<tr>
<td>8</td>
<td>Goat</td>
<td>cattle rearing leading to reduction in number of milch cow keeping (50% of farmers (45 persons) gave up rearing milch cows because of less profitability in Akkanayakanpatti cluster)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 9  | Sheep | 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  
1. Mortality due to infectious diseases like, Enterotoxemia, 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 Akkanayakanpatti Poovani Perungulam  
FLD on mineral lick feeding to goats Veterinary camp, Training. |
| 9  | Sheep | 1. Mortality due to infectious diseases like sheep pox, Enterotoxemia, 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 Akkanayakanpatti Poovani Perungulam  
FLD on scientific management and comprehensive disease control practices in sheep rearing |
<table>
<thead>
<tr>
<th></th>
<th>Poultry</th>
<th>Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>• Non availability/ minimal supply of quality chicks for rearing in the vicinity  &lt;br&gt; • Mortality in chicks due to infectious diseases (upto 40%) and prey animals (upto 40%)  &lt;br&gt; • Purchase of chicks from unknown supplier results in spread of mycoplasmosis infection (CRD)  &lt;br&gt; • Lack of knowledge in proper feeding and rearing methods  &lt;br&gt; • Lack of mothering ability with the improved desi chicken breeds.</td>
<td>FLD on oral pellet vaccine to control Ranikhet disease in desi chicken,  &lt;br&gt; Training  &lt;br&gt; 100 % of the desi fowl population 2500 in the cluster villages  &lt;br&gt; Vilathikulam  &lt;br&gt; Manakkaraic  &lt;br&gt; Akkanayakanpatti  &lt;br&gt; Poovani  &lt;br&gt; Perungulam</td>
</tr>
<tr>
<td></td>
<td>• Non availability of round the year water sources  &lt;br&gt; • Un utilization of river water flowing in irrigation canal for 160 days for fish culture</td>
<td>Manakkaraic  &lt;br&gt; Demonstration on Cage fish culture</td>
</tr>
<tr>
<td>Sl. No</td>
<td>Crop</td>
<td>Title</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>1</td>
<td>Paddy</td>
<td>Assessment of Ecological Engineering in ASD (R) 16 Paddy</td>
</tr>
<tr>
<td>2</td>
<td>Ground nut</td>
<td>Assessing the suitability of high yielding short duration groundnut varieties</td>
</tr>
<tr>
<td>3</td>
<td>Lab Lab</td>
<td>Assessment of yield potential of Dolichos bean varieties</td>
</tr>
<tr>
<td>4</td>
<td>Drum stick</td>
<td>Assessment of off season production techniques</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Abstract of TAR proposed for the year 2015-16

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Crop/ enterprise</th>
<th>Prioritized problem</th>
<th>Title of intervention</th>
<th>Team members</th>
<th>No. of trials</th>
<th>Parameters to be studied</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Paddy</td>
<td>Low level of awareness on usage of traps</td>
<td>Assessment of Ecological Engineering in control of pest affecting Paddy var. ASD 16</td>
<td>SMS (PP) SMS (Ag)</td>
<td>7</td>
<td>No of plant /m², Plant height, No of tiller /plant, No of seed / tiller, 1000 grain wt. Yield, B:C ratio, No. of pest affected tillers / m², Type of pest incidence, Egg masses / m²</td>
</tr>
<tr>
<td>2</td>
<td>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</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>T2+ Ecological Engineering – Raising combination of crops like sunflower (100g), Cow pea (100g), Marigold (20g) and black gram (100g) sesame, castor</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

### Technology Assessment during 2015-16

<table>
<thead>
<tr>
<th>Technology options</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per trial</th>
<th>Cost per trial</th>
<th>Total cost for the intervention (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1 Farmer Practices</td>
<td>TNAU</td>
<td></td>
<td></td>
<td></td>
<td>8050</td>
</tr>
<tr>
<td>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</td>
<td>TNAU, 2000</td>
<td>Egg card, Pheromone trap</td>
<td>5 cc, 5</td>
<td>250, 400</td>
<td>1150</td>
</tr>
<tr>
<td>T3 T2+ Ecological Engineering – Raising combination of crops like sunflower (100g), Cow pea (100g), Marigold (20g) and black gram (100g) sesame, castor</td>
<td>DPPQ &amp; S, Haryana 2004</td>
<td>Seeds (Sunflower, sesame, cow pea, Marigold, black gram and castor)</td>
<td></td>
<td></td>
<td>500</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>1150</strong></td>
</tr>
<tr>
<td>S. No.</td>
<td>Crop/enterprise</td>
<td>Prioritized problem</td>
<td>Title of intervention</td>
<td>Team members</td>
<td>No. of trials</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
<td>---------------------</td>
<td>-----------------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td>2</td>
<td>Ground nut</td>
<td>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 varieties</td>
<td>Assessing the suitability of high yielding short duration groundnut varieties</td>
<td>SMS (Ag) SMS (PP)</td>
<td>7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Technology options</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per trial</th>
<th>Cost per trial</th>
<th>Total cost for the intervention (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>Co -6</td>
<td>TNAU 2010 Co -6 Seed</td>
<td>12 Kg</td>
<td>1200</td>
<td>24200</td>
</tr>
<tr>
<td>T2</td>
<td>TMV -13</td>
<td>TNAU 2006 TMV -13</td>
<td>12Kg</td>
<td>1200</td>
<td>24200</td>
</tr>
<tr>
<td>T3</td>
<td>TAG 37 / Kadiri -9</td>
<td>UAS 2010 TAG 37/Kadiri -9</td>
<td>12Kg</td>
<td>1200</td>
<td>24200</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3600</td>
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<table>
<thead>
<tr>
<th>S. No.</th>
<th>Crop/enterprise</th>
<th>Prioritized problem</th>
<th>Title of intervention</th>
<th>Team members</th>
<th>No. of trials</th>
<th>Parameters to be studied</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Dolichos bean</td>
<td>• 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</td>
<td>Assessment Of Bush Type Dolichos Bean Varieties</td>
<td>SMS (Hort, PP, Agr)</td>
<td>7</td>
<td>No . Of pods/plant No . Of branches /plant Days taken for first harvest Duration yield /ha BC ratio</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Technology options</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per trial</th>
<th>Cost per trial</th>
<th>Total cost for the intervention (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>Cultivation of Co-14 lab lab</td>
<td>TNAU Co 14 seeds</td>
<td>1.5kg</td>
<td>750</td>
<td>18690</td>
</tr>
<tr>
<td>T2</td>
<td>Cultivation of Arka Amogh</td>
<td>IIHR Arka Amogh seeds</td>
<td>1.5kg</td>
<td>900</td>
<td></td>
</tr>
<tr>
<td>T3</td>
<td>Cultivation of Arka Soumya</td>
<td>IIHR Arka Soumya</td>
<td>1.5kg</td>
<td>900</td>
<td></td>
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<tr>
<td></td>
<td>Vegetable special</td>
<td></td>
<td>1kg</td>
<td>120</td>
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<td>2670</td>
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### Abstract of FLDs proposed for the year 2015-16 (on order of priority)

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Crop</th>
<th>Title</th>
<th>Village</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Paddy</td>
<td>Demonstration on Paddy TPS (R) – 5 in Thamirabarani River Command area</td>
<td>Manakkarkai</td>
<td>15050</td>
</tr>
<tr>
<td>2.</td>
<td>Sorghum</td>
<td>Demonstration on ICMP in dual purpose Sorghum K (S) 12</td>
<td>Pilayaroutham</td>
<td>4900</td>
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<tr>
<td>3.</td>
<td>Black gram</td>
<td>Demonstration On Rice Fallow Black Gram Cultivation In River Command Area</td>
<td>Manakkarkai</td>
<td>12400</td>
</tr>
<tr>
<td>5.</td>
<td>Green gram</td>
<td>Demonstration On Green gram[ CO – 8 ] in Dry Land Farming</td>
<td>Lakshmipuram</td>
<td>11100</td>
</tr>
<tr>
<td>6.</td>
<td>Chilli</td>
<td>Demonstration on Chilli cultivation with mulching during summer</td>
<td>Akkanayakanpatti</td>
<td>45600</td>
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<tr>
<td>7.</td>
<td>Cluster bean</td>
<td>Demonstration of Cluster bean (MDU 1)variety</td>
<td>Lakshmipuram</td>
<td>11200</td>
</tr>
<tr>
<td>8.</td>
<td>Coconut</td>
<td>Demonstration On Mixed Cropping System In Coconut Plantation</td>
<td>Siruthandianallur</td>
<td>39000</td>
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<tr>
<td>9.</td>
<td>Dolichos bean</td>
<td>Demonstration on Inter cropping in Banana with Dolichos bean (CO 14)</td>
<td>Manakkarkai</td>
<td>21200</td>
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<tr>
<td>10.</td>
<td>Paddy</td>
<td>Demonstration on IPM in Paddy to contain Stem borer and Leaf folder</td>
<td>Lakshmipuram</td>
<td>8000</td>
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<tr>
<td>11.</td>
<td>Banana</td>
<td>Demonstration on Integrated Disease management in Banana</td>
<td>Alwarkarkulam</td>
<td>34500</td>
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<td>12.</td>
<td>Drum stick</td>
<td>Demonstration on Ecological pest control in drumstick</td>
<td>Sakkaammalpuram</td>
<td>9600</td>
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<tr>
<td>13.</td>
<td>Dairy Cow</td>
<td>Demonstration for improvement of profitability in High yielding cross bred Dairy cows</td>
<td>Akkanayakanpatti , Poovani</td>
<td>15975</td>
</tr>
<tr>
<td>Sl. No</td>
<td>Category</td>
<td>Crop/enterprise</td>
<td>Prioritized problem</td>
<td>Technology to be demonstrated</td>
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</tr>
<tr>
<td>1</td>
<td>Cereals</td>
<td>Paddy</td>
<td>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</td>
<td>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.</td>
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9. Frontline Demonstrations during 2015-16

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Category</th>
<th>Crop/enterprise</th>
<th>Prioritized problem</th>
<th>Technology to be demonstrated</th>
<th>Specify Hybrid or Variety</th>
<th>Team members</th>
<th>Parameters to be studied</th>
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<tbody>
<tr>
<td>1</td>
<td>Cereals</td>
<td>Paddy</td>
<td>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</td>
<td>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.</td>
<td>Variety SMS (Ag) SMS (PP)</td>
<td>No of hill / m2 No of tillers / hill No of seed / panicle BC ratio Yield</td>
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<tr>
<th>Sl. No</th>
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<th>Parameters to be studied</th>
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<tr>
<td>18</td>
<td>Fodder</td>
<td>FLD on Green Fodder Cultivation In Drought Prone Area</td>
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<td>19</td>
<td>Fish</td>
<td>Demonstration on Cage fish culture</td>
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<tr>
<td>20</td>
<td>Fish</td>
<td>Demonstration Of Composite Fish Culture With Stunted Fish Yearlings</td>
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<tr>
<td>21</td>
<td>Nutrition garden</td>
<td>Demonstration of Nutrition Garden in Schools</td>
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<tr>
<td>22</td>
<td>Sweet corn</td>
<td>Demonstration on Sweet corn cultivation</td>
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Total | 348475 |
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<tr>
<td>2</td>
<td>Millets</td>
<td>Sorghum</td>
<td>Low productivity in K-8 variety Crop losses in existing commercial varieties due to drought condition in later stage of this crop growth Late maturing long duration commercial varieties invites midges attack</td>
<td>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.</td>
<td>Variety</td>
<td>SMS (Ag) SMS (PP)</td>
<td>Population / m² No of seed /head 100 grain wt. Yield /ha BC ratio Palatability index</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TNAU 2014</td>
<td>Sorghum – K – 12 Seed Azophos MN Mixture</td>
<td>4kg 1kg 5 Kg TOTAL</td>
<td>200 40 250 490</td>
<td>10</td>
<td>4900</td>
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<tr>
<td></td>
<td></td>
<td>Black Gram</td>
<td>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</td>
<td>ICMP to black gram ADT – 3 (duration - 70 days ) yield – (720kg/Ha) Seed treatment – Rhizosphos Spraying of diammonium phosphate Foliar spray of pulse wonder @ 5 kg/ha Foliar spray – PPFM IPDM practices</td>
<td>Variety</td>
<td>SMS (Ag) SMS (PP)</td>
<td>No of plant / m² No of pod /plant No of seed /pod Yield /ha BC ratio</td>
</tr>
<tr>
<td>Sl. No</td>
<td>Category</td>
<td>Crop/enterprise</td>
<td>Prioritized problem</td>
<td>Technology to be demonstrated</td>
<td>Specify Hybrid or Variety</td>
<td>Team members</td>
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<tr>
<td>4</td>
<td>Pulses</td>
<td>Black Gram</td>
<td>40% yield loss due to YMV</td>
<td>ICMP – VBN(Bg) – 6 (TNAU,2010) (crop duration 65-70 days, yield 850 kg/ha)</td>
<td>Variety</td>
<td>SMS (PP) SMS (Ag)</td>
<td>No of plant / m² No of pod / plant No of seed / pod No. of infested pods/plant Yield / ha BC ratio</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Poor pod filling due to MN deficiency</td>
<td>Seed treatment - <em>Pseudomonas fluorescens</em> @ 10 g/kg seed - Rhizobium</td>
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<td></td>
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<td></td>
<td>Labour shortage for weeding in time</td>
<td>Fertilizer application - Apply fertilizers basally before sowing. In Rainfed: 12.5 kg N + 25 kg P2O5 + 12.5 kg K2O + 10 kg S*/ha</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Non availability of latest high yielding varieties in time</td>
<td>Foliar spray of 1% urea for yield improvement in black gram</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Heavy usage of Weedicide &amp; High cost of weedicide</td>
<td>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 Imazethpyr @ 50g ai/ha application on 15-20 DAS</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Pulse wonder spray 5kg/ha IPDM Practices</td>
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<tr>
<th>Name of the Hybrid or Variety</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per Demo</th>
<th>Cost per Demo</th>
<th>No. of Demo</th>
<th>Total cost for the Demo (Rs.)</th>
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<tbody>
<tr>
<td>VBN Bg – 7</td>
<td>TNAU, 2011</td>
<td>Seed</td>
<td>8Kg</td>
<td>800</td>
<td>10</td>
<td>21100</td>
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<tr>
<td></td>
<td></td>
<td>Rhizosphos</td>
<td>1Kg</td>
<td>40</td>
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<td></td>
<td></td>
<td>Pulse wonder</td>
<td>2.25Kg</td>
<td>270</td>
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<tr>
<td></td>
<td></td>
<td>Twin Wheel Hoe Weeder</td>
<td>1</td>
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<td><strong>Total</strong></td>
<td><strong>2110</strong></td>
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<td>Prioritized problem</td>
<td>Technology to be demonstrated</td>
<td>Specify Hybrid or Variety</td>
<td>Team members</td>
</tr>
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</tr>
<tr>
<td>5</td>
<td>Pulses</td>
<td>Green Gram</td>
<td>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</td>
<td>ICMP – CO – 8 (TNAU 2011) (crop duration 65 days, yield 882 kg/ha) Seed treatment - <em>Pseudomonas fluorescens</em> @ 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 Imazethapyr @ 50g ai/ha application on 15-20 DAS Pulse wonder spray 5kg/ha IPDM Practices</td>
<td>Variety</td>
<td>SMS (Ag) SMS (PP)</td>
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<table>
<thead>
<tr>
<th>Name of the Hybrid or Variety</th>
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<th>No. of Demo</th>
<th>Total cost for the Demo (Rs.)</th>
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<tbody>
<tr>
<td>Co – 8</td>
<td>Seed</td>
<td>8Kg</td>
<td>800</td>
<td>10</td>
<td>11100</td>
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<tr>
<td></td>
<td>Rhizophos</td>
<td>1Kg</td>
<td>40</td>
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<tr>
<td></td>
<td>Pulse wonder</td>
<td>2.25kg</td>
<td>270</td>
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<td></td>
<td><strong>TOTAL</strong></td>
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<td><strong>1110</strong></td>
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<th>Technology to be demonstrated</th>
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<th>Team members</th>
<th>Parameters to be studied</th>
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<tbody>
<tr>
<td>6</td>
<td>Vegetables</td>
<td>Chilli</td>
<td>Water scarcity hinders cultivation of second crop during summer, Loss of routine</td>
<td>Introduction of Plastic sheet mulching technology Drip and fertigation (converging with Hort</td>
<td>Variety</td>
<td>SMS (Hort, PP, Agr)</td>
<td>Reduction in irrigation frequency Yield per Ha Income / Ha</td>
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### Vegetables

<table>
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<tr>
<th>Sl. No</th>
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<th>Crop/enterprise</th>
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<tbody>
<tr>
<td>7</td>
<td>Vegetables</td>
<td>Cluster Bean</td>
<td>• Water scarcity for Summer crop</td>
<td>Cultivation of MDU 1 with Complete package of Practice</td>
<td>Variety</td>
<td>SMS (Hort, PP, Agr)</td>
<td>No of pods/plant Duration Yield/ha BC ratio</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>• Poor awareness on high yielding, drought hardy, alternate crops</td>
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<td></td>
<td></td>
<td></td>
<td>• Low net profitability of other crops – commission agents</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>• Ground nut area / Second crop area reduced from 100 ha to 15 ha</td>
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<thead>
<tr>
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<tbody>
<tr>
<td>Variety</td>
<td>TNAU (2015)</td>
<td>MDU 1 seeds Vegetable special</td>
<td>2kg 1kg</td>
<td>1000 120</td>
<td>10</td>
<td>11200</td>
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### Plantation

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<th>Parameters to be studied</th>
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<tbody>
<tr>
<td>8</td>
<td>Plantation</td>
<td>Coconut</td>
<td>• Under utilization of space, water and soil</td>
<td>Introduction of Banana, Lab lab as mixed crops in coconut plantation</td>
<td>Variety</td>
<td>SMS (Hort, PP, Agr)</td>
<td>Yield per ha Income/ha Net profit BC ratio</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Lack of information on mixed cropping system</td>
<td></td>
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<td></td>
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<td></td>
<td>• Lower net profit/unit area (Rs. 30000/acre)</td>
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<tbody>
<tr>
<td>Variety</td>
<td>TNAU</td>
<td>Banana suckers (400nos0 Dolichos bean seeds(3.0kg)</td>
<td>2400 1 500</td>
<td>3900</td>
<td>10</td>
<td>39000</td>
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<td>Team members</td>
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<tr>
<td>9</td>
<td>Vegetable</td>
<td>Dolichos Bean(CO14)</td>
<td>Mono cropping Under utilization of space, water and soil Lower net profit/unit area(Rs.55000/acre/year in banana) due to single crop</td>
<td>Introduction of Dolichos bean as an intercrop in Banana plantation with ICMP Variety</td>
<td>SMS (Hort, PP, Agr)</td>
<td>Yield per ha Income/ha Net profit BC ratio</td>
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</tbody>
</table>
### ICAR- KVK (Hosted by: SCAD), Tuticorin Action Plan 2015-16

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Category</th>
<th>Crop/enterprise</th>
<th>Prioritized problem</th>
<th>Technology to be demonstrated</th>
<th>Specify Hybrid or Variety</th>
<th>Team members</th>
<th>Parameters to be studied</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Vegetable</td>
<td>Drumstick</td>
<td>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</td>
<td>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 <em>Baevaeria bassiana</em> 5Kg/Ha Botanical-Spray of Neem soap – 2.5 kg /ha</td>
<td>Variety SMS (PP) SMS (Hort)</td>
<td></td>
<td>No of infested pods / tree Yield / ha B:C ratio</td>
</tr>
<tr>
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</tr>
<tr>
<td>13</td>
<td>Live stock</td>
<td>Cattle – dairy cow</td>
<td>less returns from dairy cattle rearing leading to reduction in number of milch cow keeping (50% of farmers (45</td>
<td>Demonstration for improvement of profitability in High yielding cross bred Dairy cows</td>
<td>Cross bred cows SMS (AS)</td>
<td></td>
<td>Daily milk yield, TS and SNF in Milk, Body weight , Days required for post</td>
</tr>
</tbody>
</table>
persons) gave up rearing milch cows because of less profitability in Akkanayakanpatti cluster
• Infertility or delayed fertility due to mineral deficiencies (65% of cows were affected with 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)

- CAZRI, 2005
- TNAUVA S, 2010

<table>
<thead>
<tr>
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<th>Specify Hybrid or Variety</th>
<th>Team members</th>
<th>Parameters to be studied</th>
</tr>
</thead>
</table>
| 14     | Livestock | 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 anoestrus 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 |

<table>
<thead>
<tr>
<th>Name of the Hybrid or Variety</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per Demo</th>
<th>Cost per Demo</th>
<th>No. of Demo</th>
<th>Total cost for the Demo (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>CAZRI, 2005</td>
<td>Mesquite pod flour</td>
<td>60 kg</td>
<td>900</td>
<td>165</td>
<td>15975</td>
</tr>
<tr>
<td>-</td>
<td>TNAUVA S, 2010</td>
<td>TANUVAS Mineral mixture</td>
<td>3 Kg</td>
<td>165</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of the Hybrid or Variety</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per Demo</th>
<th>Cost per Demo</th>
<th>No. of Demo</th>
<th>Total cost for the Demo (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>TNAUVA S, 2012 &amp; 2010</td>
<td>GRAND supplement</td>
<td>360 Nos</td>
<td>180</td>
<td>20</td>
<td>3600</td>
</tr>
<tr>
<td>Sl. No</td>
<td>Category</td>
<td>Crop/enterprise</td>
<td>Prioritized problem</td>
<td>Technology to be demonstrated</td>
<td>Specify Hybrid or Variety</td>
<td>Team members</td>
</tr>
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</tr>
<tr>
<td>15</td>
<td>Livestock</td>
<td>Sheep</td>
<td>1. Mortality due to infectious diseases like sheep pox, Entero toxemia, Anthrax, Blue tongue and Pneumonia and ectoparasitism up to 30% in adults and 50% in lambs</td>
<td>Vembur breed</td>
<td>SMS Vet.Sci.</td>
<td>No.of lambs born, Weaning percentage, Weaning weight, Morbidity and Mortality due to infectious diseases, BC ratio</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3. Vaccinating the sheep against the diseases only in the phase of outbreak and no preventive vaccination was carried out</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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</td>
<td>FLD on scientific management and comprehensive disease control practices in sheep rearing * (full details given separately below this table)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5. Deworming is done once in 3-4 months with ivermectin, albendazole and tetramisole in rotation</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5. 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</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Type of worm</th>
<th>De worming</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape worm</td>
<td>12wks of age with niclosamide @ 100mg/kg bwt</td>
</tr>
<tr>
<td>Trematodes</td>
<td>Oxyclosanide @15mg /kg bwt during January and March</td>
</tr>
<tr>
<td>Nematodes</td>
<td>Deworming at 3 months interval with tetramisole, closantel, ivermectin, albendazol/fenbendazol in annual rotation</td>
</tr>
</tbody>
</table>

Source TANUVAS 2008

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Category</th>
<th>Crop/enterprise</th>
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<th>Parameters to be studied</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Livestock</td>
<td>Goat</td>
<td>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</td>
<td>1. Mineral lick feeding to enhance body weight gain in kids 2. Comprehensive disease control practices (details given separately)</td>
<td>Kodi adu</td>
<td>SMS Vet.Sci.</td>
<td>Birth weight Monthly bodyweight Weaning weight Weaning percentage BCR</td>
</tr>
</tbody>
</table>
4. Vaccinating/Treating the Goat against the diseases only in the phase of outbreak and no preventive vaccination was carried out

<table>
<thead>
<tr>
<th>Name of the Hybrid or Variety</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per Demo (10 kids/unit)</th>
<th>Cost per Demo</th>
<th>No. of Demo</th>
<th>Total cost for the Demo (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kodi adu</td>
<td>TANUVAS</td>
<td>Mineral lick</td>
<td>2</td>
<td>130</td>
<td>20</td>
<td>2600</td>
</tr>
</tbody>
</table>

- **Vaccine**
  - **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: -4 months and then once in 6 months (March and August)
  - **enterotoxemia**
    - 1st: before weaning
    - 2nd: -6 months and then annually (May to June)
  - **PPR**
    - 1st: -3 months and then annually (May)
  - **Anthrax**
    - 1st: -3 months and then once in a year (April-May)

- **Deworming Schedule**
  - **Tape worm**
    - 12 wks of age with niclosamide @ 100mg/kg bwt
  - **Trematodes**
    - Oxylosadine @ 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

<table>
<thead>
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<th>Team members</th>
<th>Parameters to be studied</th>
</tr>
</thead>
</table>
| 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 |
### Prioritized problem
- 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

### Parameters to be studied
- Fodder yield
- Palatability

---

### Prioritized problem
- Non availability of round the year water sources
- Un utilization of river water flowing in irrigation canal for 160 days for fish culture

### Parameters to be studied
- BCR
- Fish weight during stocking and harvesting
- Yield per ha
- Market prize during harvest
- Cost of cultivation
- Labour requirement
<table>
<thead>
<tr>
<th>Name of the Hybrid or Variety</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per Demo</th>
<th>Cost per Demo</th>
<th>No. of Demo</th>
<th>Total cost for the Demo (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TANUVAS 2010</td>
<td>Cage net Fish fingerling</td>
<td>5 cu.m 300</td>
<td>200 500 700</td>
<td>5</td>
<td>3500</td>
<td></td>
</tr>
</tbody>
</table>

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.) |
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>TANUVAS</td>
<td>Fish yearlings</td>
<td>2000</td>
<td>10000</td>
<td>3</td>
<td>30000</td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Identity</th>
<th>Quantity</th>
<th>Cost per Demo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seedlings (Drumstick, Papaya, Curry leaf, Lemon, Guava)</td>
<td>1</td>
<td>50</td>
</tr>
<tr>
<td>Azophos</td>
<td>1 Kg</td>
<td>40</td>
</tr>
<tr>
<td>Neem Soap</td>
<td>250gm</td>
<td>100</td>
</tr>
<tr>
<td>Effective Micro organism –A</td>
<td>1 Liter</td>
<td>60</td>
</tr>
<tr>
<td>Earthworm</td>
<td>1 Kg</td>
<td>800</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Category</th>
<th>Crop/enterprise</th>
<th>Prioritized problem</th>
<th>Technology to be demonstrated</th>
<th>Specify Hybrid or Variety</th>
<th>Team members</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Maize</td>
<td>Sweet Corn</td>
<td>Need for alternative short duration crop for quick return</td>
<td>Demonstration on sweet corn (variety Priya Source-DMR,2002) cultivation Grading, packing, Labeling and marketing</td>
<td>Variety</td>
<td>SMS (HS) SMS (Hort)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Loss of long duration crops due to drought during the later stage of the crop growth</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Low water table in the existing water bodies during late summer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of the Hybrid or Variety</th>
<th>Source of Technology</th>
<th>Name of critical input</th>
<th>Qty per Demo</th>
<th>Cost per Demo</th>
<th>No. of Demo</th>
<th>Total cost for the Demo (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priya</td>
<td>DMR,2002</td>
<td>Sweet corn seed</td>
<td>300 gm / 10 cent</td>
<td>660</td>
<td>10</td>
<td>6600</td>
</tr>
</tbody>
</table>
### 9.23. Demonstration of Integrated Farming system Model (IFS)

<table>
<thead>
<tr>
<th></th>
<th>Title of the intervention</th>
<th>Existing crops and enterprises</th>
<th>Proposed additional enterprise / technology to be incorporated</th>
<th>Critical inputs</th>
<th>Amount in Rs.</th>
</tr>
</thead>
</table>
| 1 | Identified Farmers for IFS demonstration | Garden land -3 acres | ✓ Azolla cultivation  
✓ Improved backyard poultry rearing  
✓ Guinea fowl rearing  
✓ Heifer calf rearing | Azolla rearing unit  
(Silpaulin sheet (6x12') (Azolla seed, azofert)) | 1000 |
|   |   | Cropping pattern | | Cross bred chicken -20 no.s | 2000 |
|   |   | Garden land | | Guinea fowl keets – 10 no.s | 1500 |
|   |   | Coconut, vegetable, maize | | Heifer calves -2 no.s | 12000 |
|   |   | Vermi Composting | | Total | 23500 |
|   |   | Honey bee rearing | | Less farmers contribution | 13500 |
|   |   | ✓ Azolla cultivation  
✓ Improved backyard poultry rearing  
✓ Honey bee rearing  
✓ Vermicomposting  
✓ Biogas unit ( balloon method) | | ICAR contribution | 10000 |
| 2 | Subramani s/o Pungan 9788694463 SC farmer | Garden land -2 acres | Pigeon Squab rearing | Pigeon Squab (5+5) | 1000 |
|   |   | Dry land -6 acres | ✓ Improved backyard poultry rearing | Pigeon box -1 | 4000 |
|   |   | Cropping pattern | ✓ Honey bee rearing  
✓ Vermicomposting  
✓ Biogas unit ( balloon method) | Cross bred chicken – 20 no.s | 2000 |
|   |   | Garden land | ✓ Azolla cultivation  
✓ Improved backyard poultry rearing  
✓ Honey bee rearing  
✓ Vermicomposting  
✓ Biogas unit ( balloon method) | Azolla rearing unit  
(Silpaulin sheet (6x12') (Azolla seed, azofert)) | 1000 |
|   |   | Paddy-Cotton  
Dry land | Silpaulin Vermi bag + 2 kg of earth worm | 4500 |
|   |   | Fodder sorghum/ Sorghum | Biogas unit -1 (balloon model) | 9000 |
|   |   | Livestock | Honey bee rearing unit -1 no. | 2000 |
|   |   | Cows – 3, Heifers – 6  
Goat -2 | Total | 23500 |
|   |   | Composting by pit method | Farmers contribution | 13500 |
|   |   | ✓ Pigeon Squab rearing  
✓ Improved backyard poultry rearing  
✓ Honey bee rearing  
✓ Vermicomposting  
✓ Biogas unit ( balloon method) | ICAR contribution | 10000 |
| 3 | Arumugam s/o Subramaniyarn Age -58 yrs SC farmer | Garden land -2 acres | Pigeon Squab rearing | Pigeon Squab (5+5) | 1000 |
|   |   | Dry land -2 acres | ✓ Improved backyard poultry rearing  
✓ Honey bee rearing  
✓ Vermicomposting  
✓ Biogas unit ( balloon method) | Pigeon box -1 | 4000 |
|   |   | Cropping pattern | ✓ Azolla cultivation  
✓ Improved backyard poultry rearing  
✓ Honey bee rearing  
✓ Vermicomposting  
✓ Biogas unit ( balloon method) | Cross bred chicken – 10 no.s | 1000 |
|   |   | Garden land | ✓ Azolla rearing unit  
(Silpaulin sheet (6x12') (Azolla seed, azofert)) | 1000 |
<table>
<thead>
<tr>
<th>No.</th>
<th>Name &amp; Address</th>
<th>Livestock</th>
<th>Method</th>
<th>ICAR contribution</th>
<th>Farmers contribution</th>
<th>Total ICAR contribution for 5 demonstrations</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Sundaravinay agam s/o Ganapathi MBC farmer 9962952132</td>
<td>Cows – 1, Bullock – 2, Goat -2, Poultry desi - 5</td>
<td>✓ Azolla cultivation</td>
<td>12500</td>
<td>9500</td>
<td>22000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10000</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50000</td>
</tr>
<tr>
<td>5</td>
<td>Chandramohan s/o Perumal BC farmer 9443584375</td>
<td>Cows – 3, Goat -10, Poultry desi - 50</td>
<td>✓ Pigeon Squab rearing ✓ Honey bee rearing ✓ Vermicomposting ✓ Biogas unit ( balloon method) ✓ Azolla cultivation</td>
<td>10000</td>
<td>4500</td>
<td>14500</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10000</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50000</td>
</tr>
<tr>
<td>3</td>
<td>Parameters to be observed</td>
<td>CBR of individual enterprise, Productivity per unit area CBR per unit area, Employment generated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sl. No</td>
<td>Thematic area</td>
<td>Crop/Enterprise</td>
<td>Major problem</td>
<td>Linked field intervention (Assessment/Refinement/FLD)*</td>
<td>Training Course Title**</td>
<td>No. of Courses</td>
</tr>
<tr>
<td>--------</td>
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<td>-------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>10.1.</td>
<td>School garden</td>
<td>• Poor intake of vegetables by the school children (30 - 40 g/day)</td>
<td>FLD</td>
<td>Importance of nutrition garden for nutritional security</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• high cost of vegetables</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Lack of knowledge in multi nutritive value of vegetables and greens among the school going children</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Intake of vegetables with toxic residues of pesticides</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Lack of utilization of used water</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.2.</td>
<td>Sweet corn</td>
<td>Need for alternative short duration crop for quick return</td>
<td>FLD</td>
<td>Sweet corn cultivation and its value addition</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Loss of long duration crops due to drought during the later stage of the crop growth</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Low water table in the existing water bodies during late summer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.3.</td>
<td>Horticulture</td>
<td>Chilli</td>
<td>Water scarcity, Crop loss due to water stress</td>
<td>FLD</td>
<td>Usage of Plastic sheet mulch in water conservation</td>
<td>1</td>
</tr>
<tr>
<td>10.4.</td>
<td></td>
<td>Cluster bean</td>
<td>Water scarcity, no suitable high yielding alternate crops</td>
<td>FLD</td>
<td>MDU1 Cluster bean as an alternate crop for better profitability</td>
<td>1</td>
</tr>
<tr>
<td>10.5.</td>
<td>Coconut</td>
<td>Under utilization of resources, poor income and profit</td>
<td>FLD</td>
<td>Mixed cropping to enhance the net profit in coconut gardens</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>10.6.</td>
<td>Banana</td>
<td>Under utilization of resources, poor income and profit</td>
<td>FLD</td>
<td>Inter cropping in Banana to enhance the profit in Banana</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>10.7.</td>
<td>Drumstick</td>
<td>Poor yield, lesser awareness on alternate high yielding varieties, pest and disease manance</td>
<td>OFT</td>
<td>High yielding moringa varieties for better yield and income</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>10.8.</td>
<td>Dolichos bean</td>
<td>Low production, reduced income, Lesser awareness on high yielding varieties</td>
<td>OFT</td>
<td>High yielding Dolichos bean varieties for better yield and income</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>10.9.</td>
<td>Agronomy</td>
<td>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</td>
<td>FLD</td>
<td>ICMP Paddy in Thamirabarani River Command area</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>10.10.</td>
<td>Rice fallow pulses</td>
<td>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</td>
<td>FLD</td>
<td>Rice Fallow Black Gram Cultivation In River Command Area</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>10.11.</td>
<td>Sorghum</td>
<td>Low productivity in K-8 variety Crop losses in existing commercial varities due to drought condition</td>
<td>FLD</td>
<td>ICMP in dual purpose Sorghum K (S) 12</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>---------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td>--------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.12</td>
<td>Black gram</td>
<td>late stage of this crop growth Late maturing long duration commercial varieties invites midges attack</td>
<td>ICMP Black Gram in Dry Land Farming techniques</td>
<td>1 20 SMS (Ag)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.13</td>
<td>Green gram</td>
<td>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</td>
<td>ICMP Green gram In Dry Land Farming techniques</td>
<td>1 20 SMS (Ag)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.14</td>
<td>Groundnut</td>
<td>Labour shortage for harvesting Low level of awareness on improve, high yielding varities for continuous usage of local seeds Lack of awareness on gypsum application</td>
<td>High yielding ground nut varieties for better yield and income</td>
<td>1 20 SMS (Ag)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.15</td>
<td>Livestock Production</td>
<td>Backyard poultry rearing Poor productivity of the desi birds, predator attack, mortality in birds</td>
<td>Improved backyard poultry rearing</td>
<td>6 120 SMS AS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.16</td>
<td>IFS</td>
<td>Reduced profitability and lack of employment due to non adoption of IFS</td>
<td>Integrating livestock and crop and animal residue recycling for IFS</td>
<td>2 40 SMS AS SMS AG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.17</td>
<td>Cattle</td>
<td>High production cost</td>
<td>Profitable dairy farming</td>
<td>2 40 SMS AS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.18.</td>
<td>Fodder</td>
<td>Non availability of green fodder</td>
<td>FLD</td>
<td>Green fodder cultivation &amp; Preservation</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>10.19.</td>
<td>Goat &amp; Sheep</td>
<td>Mortality in goats due to infectious diseases and parasitism</td>
<td>Extention activities Vet.Camp</td>
<td>Feeding and disease management in sheep and goats</td>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>10.20.</td>
<td>Fisheries Production</td>
<td>Fish</td>
<td>Lack of awareness on fresh water fish culture</td>
<td>FLD</td>
<td>Fresh water Ornamental fish culture</td>
<td>1</td>
</tr>
<tr>
<td>10.21.</td>
<td>Fish</td>
<td>Non Utilization of potential freshwater bodies</td>
<td>FLD</td>
<td>Composite fish culture and Poly culture</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>10.22.</td>
<td>Plant Protection</td>
<td>Drumstick</td>
<td>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</td>
<td>FLD</td>
<td>Ecological pest control</td>
<td>1</td>
</tr>
<tr>
<td>10.23.</td>
<td>Banana</td>
<td>Heavy incidence of Panama wilt and sigatoka 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</td>
<td>FLD</td>
<td>Integrated Diseases Management</td>
<td>1</td>
<td>20</td>
</tr>
</tbody>
</table>
### 10.24.

<table>
<thead>
<tr>
<th>Crop / Enterprise</th>
<th>Major problem</th>
<th>Linked field intervention (Assessment/Refinement/FLD)*</th>
<th>Training Course Title**</th>
<th>Training title should specify the major technology/skill to be transferred.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddy</td>
<td>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</td>
<td>FLD</td>
<td>Integrated Pest Management</td>
<td></td>
</tr>
</tbody>
</table>

### 10.25.

* 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

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Thematic area</th>
<th>Crop / Enterprise</th>
<th>Major problem</th>
<th>Linked field intervention (Assessment/Refinement/FLD)*</th>
<th>Training Course Title**</th>
<th>No. of Courses</th>
<th>Expected No. of participants</th>
<th>Names of the team members involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.3</td>
<td>Horticulture</td>
<td>Nursery</td>
<td>Under employment, lesser entrepreneurial Opportunities</td>
<td>Training Quality seedling production under shadehouse using portray</td>
<td>1</td>
<td>20</td>
<td>SMS (Hort)</td>
<td></td>
</tr>
<tr>
<td>11.4</td>
<td>Horticulture</td>
<td>Banana</td>
<td>Under employment, lesser entrepreneurial Opportunities</td>
<td>training Utilization of banana by products through value addition</td>
<td>1</td>
<td>20</td>
<td>SMS(Hort, Home science)</td>
<td></td>
</tr>
<tr>
<td>11.7</td>
<td>Home Science</td>
<td>Minor millets</td>
<td>Lack of knowledge on value added products and marketing facilities</td>
<td>FLD Value addition on minor millets</td>
<td>1</td>
<td>20</td>
<td>SMS HS</td>
<td></td>
</tr>
<tr>
<td>11.8</td>
<td>Capacity Building Group Dynamics</td>
<td>WSHG</td>
<td>Lack of knowledge on group dynamics and entrepreneurial skills</td>
<td>Training Entrepreneurial Development training</td>
<td>1</td>
<td>20</td>
<td>SMS HS</td>
<td></td>
</tr>
<tr>
<td>11.9</td>
<td>Livestock Production</td>
<td>Goat rearing</td>
<td>Low productivity</td>
<td>FLD Goat rearing as an entrepreneurial activity</td>
<td>1</td>
<td>20</td>
<td>SMS AS</td>
<td></td>
</tr>
<tr>
<td>11.10</td>
<td>Livestock Production</td>
<td>Pigeon</td>
<td>Less awareness</td>
<td>FLD Pigeon rearing for squab production</td>
<td>1</td>
<td>20</td>
<td>SMS AS</td>
<td></td>
</tr>
<tr>
<td>11.11</td>
<td>Livestock Production</td>
<td>Turkey</td>
<td>Non availability and less awareness</td>
<td>FLD Turkey farming</td>
<td>1</td>
<td>20</td>
<td>SMS AS</td>
<td></td>
</tr>
<tr>
<td>11.12</td>
<td>Plant Protection</td>
<td>All Crops</td>
<td>High cost of pesticide</td>
<td>Training Panchakavya and Poochi viraty Production</td>
<td>1</td>
<td>20</td>
<td>SMS PP</td>
<td></td>
</tr>
<tr>
<td>11.13</td>
<td>Plant Protection</td>
<td>Mushroo m</td>
<td>Non availability of crops</td>
<td>Training Spawn and Mushroom Production methods</td>
<td>1</td>
<td>20</td>
<td>SMS PP</td>
<td></td>
</tr>
</tbody>
</table>
### 12 Trainings for Extension Personnel during 2015 – 16

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

### 13 Vocational trainings during 2015 – 16

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

|      |                                       |                                                                  |                                       |                                                                   |                             |                          |                                 |
| 13.2 |                                       |                                                                  |                                       |                                                                   |                             |                          |                                 |
| 13.3 |                                       |                                                                  |                                       |                                                                   |                             |                          |                                 |
| 13.4 |                                       |                                                                  |                                       |                                                                   |                             |                          |                                 |
| 13.5 |                                       |                                                                  |                                       |                                                                   |                             |                          |                                 |
| 13.6 |                                       |                                                                  |                                       |                                                                   |                             |                          |                                 |
## 14 Sponsored trainings during 2015 – 16

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

### 15. Extension programmes during 2015 – 16

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

| 15.10   |                      |                                 |                             |                                   |

Total: 9 programmes, 360 participants
### 16. Activities proposed as Knowledge and Resource Centre during 2015-16

#### 16.1 Technological knowledge

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Category</th>
<th>Details of technologies</th>
<th>Area (ha)/Number</th>
<th>Names of the team members involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.1.1</td>
<td>Technology Park/ Crop cafeteria</td>
<td>Nursery</td>
<td>1 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Herbal plants</td>
<td>0.5 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mango</td>
<td>1 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coconut (TXD)</td>
<td>3 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coconut (Tall)</td>
<td>0.8 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sapota</td>
<td>1 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drumstick</td>
<td>0.4 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Casuarina</td>
<td>0.4 ha</td>
<td>Farm manager, SMS AS, SMS Hort, SMS P.P, SMS Ag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green fodder (CO-4)</td>
<td>0.2 ha</td>
<td>Farm manager, SMS AS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High yield guava</td>
<td>0.2 ha</td>
<td>Farm manager, SMS Ass, SMS P.P</td>
</tr>
<tr>
<td>16.1.2</td>
<td>Demonstration Units</td>
<td>Vermicompost unit</td>
<td>1</td>
<td>SMS SS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mushroom unit</td>
<td>1</td>
<td>SMS P.P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish rearing unit</td>
<td>3 unit (360sqm)</td>
<td>SMS AS, SMS Fisheries</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish farm pond</td>
<td>2 unit (700 sqm)</td>
<td>SMS AS, SMS Fisheries</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish hatchery unit</td>
<td>1</td>
<td>SMS As, PA Fisheries</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mushroom unit</td>
<td>20m²</td>
<td>Farm manager, SMS As, SMS P.P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Squab rearing unit</td>
<td>10+10</td>
<td>Farm manager, SMS As, SMS P.P</td>
</tr>
</tbody>
</table>
### 16.1.3 Lab Analytical services

<table>
<thead>
<tr>
<th>Service</th>
<th>Details</th>
<th>Team Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil and water test lab</td>
<td>250 samples</td>
<td>SMS SS, SMS As.</td>
</tr>
<tr>
<td>Bio tech lab</td>
<td>1000 kg of biofertilizers</td>
<td>SMS AS, SMS P.P</td>
</tr>
</tbody>
</table>

**16.1.4 Technology Week**

<table>
<thead>
<tr>
<th>Service</th>
<th>Details</th>
<th>Team Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology Week</td>
<td>Suitability of high yielding varieties for groundnut, chilli, bajra, sorghum, baby corn, backyard poultry, stunted fingerlings, 2 days</td>
<td>All SMS</td>
</tr>
</tbody>
</table>

### 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

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

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

### 17. Additional Activities Planned during 2015-16

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name of the agency / scheme</th>
<th>Name of activity</th>
<th>Technical programme with quantification</th>
<th>Financial outlay (Rs.)</th>
<th>Names of the team members involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.1</td>
<td>Coconut development board</td>
<td>Vocational training programme on climbing the coconut and maintenance of tree</td>
<td>6 days long vocational training for 20 persons in each batch for 4 batches</td>
<td>600000</td>
<td>Programme coordinator SMS Agronomy SMS Plant protection SMS Horticulture</td>
</tr>
<tr>
<td>17.2</td>
<td>ATMA</td>
<td>Technology week celebrations</td>
<td>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</td>
<td>200000</td>
<td>Programme coordinator All SMS Computer Programmer</td>
</tr>
<tr>
<td>17.3</td>
<td>ATMA</td>
<td>On-Farm Trials</td>
<td>To be conducted to solve the problems that are not covered under KVK OFTs and as per the provisions and requirements of ATMA</td>
<td>500000</td>
<td>Programme coordinator All SMS</td>
</tr>
</tbody>
</table>

### 18. Revolving Fund

#### 18.1 Financial status

<table>
<thead>
<tr>
<th>Opening balance as on 01.04.2014 (Rs.in Lakh)</th>
<th>Expenditure incurred during 2014-15 (Rs.in Lakh)</th>
<th>Receipts during 2014-15 (Rs.in Lakh)</th>
<th>Closing balance as on 28.02.2015 (Rs.in Lakh)</th>
<th>Closing balance by 28.02.2015 (Including value of material in stock)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.19</td>
<td>5.00</td>
<td>5.04</td>
<td>3.27</td>
<td>6.20</td>
</tr>
</tbody>
</table>
### Plan of activities under Revolving Fund

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

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

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Type</th>
<th>No. of samples to be analyzed</th>
<th>Names of the team members involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.1</td>
<td>Soil</td>
<td>500</td>
<td>A.Jeyakumar, Lab Technician</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.Murugan, SMS Agronomy</td>
</tr>
<tr>
<td>19.2</td>
<td>Water</td>
<td>100</td>
<td>-do-</td>
</tr>
<tr>
<td>19.3</td>
<td>Plant</td>
<td>50</td>
<td>-do-</td>
</tr>
<tr>
<td>19.4</td>
<td>Others</td>
<td>50</td>
<td>-do-</td>
</tr>
</tbody>
</table>

### E-linkage during 2015-16

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Nature of activities</th>
<th>Likely period of completion (please set the time frame)</th>
<th>Time frame</th>
<th>Team members involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Title of the technology module to be prepared</td>
<td>Integrated farming system</td>
<td>April 2015</td>
<td>SMS Vet.Sci. Comp.programmer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alternative poultry production enterprise</td>
<td>May 2015</td>
<td>SMS Vet.Sci. Comp.programmer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Haylage preparation and feeding</td>
<td>June 2015</td>
<td>SMS Vet.Sci. Comp.programmer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Silage preparation and feeding</td>
<td>Dec 2015</td>
<td>SMS Vet.Sci. Comp.programmer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Broiler goat rearing</td>
<td>July 2015</td>
<td>SMS Vet.Sci. Comp.programmer</td>
</tr>
<tr>
<td>Project Description</td>
<td>Start Month</td>
<td>Responsible Body</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-------------</td>
<td>-----------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultivation fruit tree - mango, amla, guava, sapota</td>
<td>May 2015</td>
<td>SMS Horticulture Programme coordinator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultivation of forest trees – casurina and Melia dubia</td>
<td>June 2015</td>
<td>SMS Horticulture Programme coordinator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net house vegetable cultivation</td>
<td>July 2015</td>
<td>SMS Horticulture Programme coordinator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High density planting mango and guava</td>
<td>Aug, 2015</td>
<td>SMS Horticulture Programme coordinator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drought mitigation technologies</td>
<td>May 2015</td>
<td>SMS Agronomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated crop management in Paddy</td>
<td>June 2015</td>
<td>SMS Plant Protection, SMS Agronomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICM in Banana</td>
<td>July 2015</td>
<td>SMS Plant Protection, SMS Horticulture, SMS Agronomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICM in black gram</td>
<td>Aug 2015</td>
<td>SMS Plant Protection, SMS Horticulture, SMS Agronomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic farming practices for crop cultivation</td>
<td>Sept 2015</td>
<td>SMS Plant Protection, SMS Agronomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value added product preparation from amla</td>
<td>May 2015</td>
<td>SMS HS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value added product preparation from millets</td>
<td>June 2015</td>
<td>SMS HS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value added product preparation from baby corn</td>
<td>July 2015</td>
<td>SMS HS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value added product preparation from mango</td>
<td>Aug, 2015</td>
<td>SMS HS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value added product preparation from fish</td>
<td>Sept 2015</td>
<td>SMS HS, SMS Fisheries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Composite fish culture in seasonal ponds</td>
<td>May 2015</td>
<td>SMS Fisheries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish rearing in integrated farming system</td>
<td>Aug 2015</td>
<td>SMS Fisheries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back yard ornamental fish rearing</td>
<td>Sept 2015</td>
<td>SMS Fisheries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.2 Creation and maintenance of relevant Ex trainees database</td>
<td>May 2015</td>
<td>Comp.programmer Prog. Cord</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>S. No</th>
<th>Activities planned</th>
<th>Remarks if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.1</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>21.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

22. **Innovative Farmer’s Meet**

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Particulars</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.1</td>
<td>Are you planning for conducting Farm Innovators meet in your district?</td>
<td>Yes</td>
</tr>
<tr>
<td>22.2</td>
<td>If Yes likely month of the meet</td>
<td>Sept 2015</td>
</tr>
<tr>
<td>22.3</td>
<td>Brief action plan in this regard</td>
<td>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.</td>
</tr>
</tbody>
</table>

23. **Farmer’s Field School planned**

<table>
<thead>
<tr>
<th>Thematic area</th>
<th>Integrated pest and diseases management in Pulses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of the FFS</td>
<td>IPDM in Black gram</td>
</tr>
<tr>
<td>Budget proposed in Rs.</td>
<td>Rs 30,000</td>
</tr>
<tr>
<td>Prioritized problem:</td>
<td>Heavy infestation of pod borer <em>Helicoverpa armigera</em>, <em>M testulalis</em> - 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 Los 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</td>
</tr>
<tr>
<td>Village identified</td>
<td>Lakshmirpuram</td>
</tr>
<tr>
<td>Technologies to be taught</td>
<td>Summer ploughing Seed treatment with Rhizopshos 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</td>
</tr>
</tbody>
</table>
ICAR- KVK (Hosted by: SCAD), Tuticorin Action Plan 2015-16

| 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

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

### Budget for FFS

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

### 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

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the activity</th>
<th>Required number / Acre</th>
<th>Amount (Rs)</th>
<th>Total Amount</th>
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<td></td>
<td><strong>Demonstration Details:</strong></td>
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<tr>
<td>1</td>
<td>Soil test</td>
<td>1No</td>
<td>50</td>
<td>1000</td>
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<tr>
<td>2</td>
<td>Daincha seed</td>
<td>8 Kg</td>
<td>60</td>
<td>9600</td>
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<tr>
<td>3</td>
<td>Gypsum</td>
<td>200 Kg</td>
<td>400</td>
<td>8000</td>
</tr>
<tr>
<td>4</td>
<td>Zinc Sulphate</td>
<td>5kg</td>
<td>50</td>
<td>5000</td>
</tr>
<tr>
<td></td>
<td><strong>Other details:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Capacity building training to farmers – 2 batches</td>
<td>100 nos x 1 days</td>
<td>100</td>
<td>10000</td>
</tr>
<tr>
<td>6</td>
<td>Organizing farmers fair</td>
<td>100nos x 1day</td>
<td>100</td>
<td>10000</td>
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<tr>
<td>7</td>
<td>Preparation of technical posters/leaflets/ folders / CD</td>
<td>1400nos</td>
<td>1</td>
<td>1400</td>
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<tr>
<td>8</td>
<td>Creation of data bank for 10 villages</td>
<td>10village</td>
<td>500</td>
<td>5000</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particulars</th>
<th>Sanctioned</th>
<th>Released</th>
<th>Expenditure Rs.</th>
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<tr>
<td><strong>24.1</strong></td>
<td><strong>Recurring Contingencies</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.1.1</td>
<td>Pay &amp; Allowances</td>
<td>8450000</td>
<td>8450000</td>
<td>82,29,698</td>
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<td>24.1.2</td>
<td>Traveling allowances</td>
<td>100000</td>
<td>85000</td>
<td>88,044</td>
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<td>24.1.3</td>
<td>Contingencies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.1.4</td>
<td>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance</td>
<td>255000</td>
<td>50000</td>
<td>2,43,466</td>
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<tr>
<td>24.2</td>
<td>Works</td>
<td></td>
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<tr>
<td>24.2.2</td>
<td>Equipments including SWTL &amp; Furniture</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>24.2.3</td>
<td>Vehicle (Four wheeler/Two wheeler, please specify)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>24.2.4</td>
<td>Library</td>
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<td>24.3</td>
<td>Total Non Recurring</td>
<td></td>
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<tr>
<td>24.4</td>
<td>REVOLVING FUND</td>
<td>97,50,000</td>
<td>9035000</td>
<td>92,55,421</td>
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**Total Recurring**

**Non-Recurring Contingencies**

<table>
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<th>Total Recurring</th>
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<td>24.2</td>
<td>Non-Recurring Contingencies</td>
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<td>24.2.1</td>
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<td>24.2.2</td>
<td>Equipments including SWTL &amp; Furniture</td>
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<tr>
<td>24.2.3</td>
<td>Vehicle (Four wheeler/Two wheeler, please specify)</td>
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<tr>
<td>24.2.4</td>
<td>Library</td>
<td></td>
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<tr>
<td>24.3</td>
<td>Total Non Recurring</td>
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<tr>
<td>24.4</td>
<td>REVOLVING FUND</td>
<td>97,50,000</td>
<td>9035000</td>
<td>92,55,421</td>
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</tbody>
</table>

**GRAND TOTAL (A+B+C)**
### 25. Details of Budget Estimate (2015-16) based on proposed action plan

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