

**COTTON CROP IMPROVEMENT**  
**Action plan for 2016-2019 on the identified themes**

Theme No. 1		Characterization of genotypes				
Theme Leader		Dr. L. Mahalingam, Professor (PBG)				
S.No	Activity	Name of the scientist and centre	Year 2016-17	Year 2017-18	Year 2018-19	Deliverables/ expected out come
			Winter 2016	Winter 2017	Winter 2018	
1.	Pre breeding materials development and utilization of wild relatives for exploiting HPR	Dr. L. Mahalingam, Prof. (PBG)	<ul style="list-style-type: none"> <li>➤ Fresh crosses will be effected between the CO 14 cotton and <i>Gossypium sturtianum</i> and <i>Gossypium gossypoides</i> wild species.</li> <li>➤ Raising of F<sub>1</sub> generation and pollen fertility study</li> </ul>	Raising of F <sub>2</sub> population and selection of desirable segregants Quality studies and pest and diseases screening of entries	Forwarding of F <sub>2</sub> - F <sub>3</sub> generation	<ul style="list-style-type: none"> <li>➤ Utilizing wild species for infusing pest and disease resistance</li> <li>➤ Genotypes with good fibre quality and tolerance/ resistance to pest and diseases</li> </ul>
2.	Evaluation, characterization and documentation of cotton germplasm	Dr. N.Premalatha, AP (PBG)	Evaluation of 400 germplasm of <i>G. hirsutum</i> with 10 checks for characterization, documentation and for preparing a database in collaboration of PGR	Evaluation of another set of 400 germplasm of <i>G. hirsutum</i> with 10 checks for characterization, documentation and for preparing a database in collaboration of PGR	Evaluation of another 200 germplasm of <i>G. hirsutum</i> and 160 germplasm of <i>G. barbadense</i> with 10 checks for characterization, documentation and for preparing a database in collaboration of PGR	<ul style="list-style-type: none"> <li>➤ Preparation of a document on 1000 <i>G. hirsutum</i> and 160 <i>G. barbadense</i> germplasm</li> <li>➤ Making the key traits of available germplasm on line</li> </ul>

Theme No. 2		Developing long and extra long staple cotton varieties				
Theme Leader		Dr. M. Kumar, Professor and Head (PBG), Dept. of Cotton, TNAU, Coimbatore				
S.No	Activity	Name of the scientist and centre	Year 2016-17	Year 2017-18	Year 2018-19	Deliverables/ expected outcome
			Winter 2016	Winter 2017	Winter 2018	
1	Evaluation of segregating materials	Dr. M. Kumar, Professor and Head Dept. of Cotton Coimbatore	<ul style="list-style-type: none"> <li>➤ Identification of superior progenies from the <i>G. hirsutum</i> x <i>G. barbadense</i> (15 x 6 cross combinations) and <i>G. hirsutum</i> x <i>G. hirsutum</i> (4 x 15) already raised and due for harvest during July 2016</li> <li>➤ Raising of successful cross combinations during August 2016</li> </ul>	<ul style="list-style-type: none"> <li>➤ Evaluation of segregating materials (F<sub>2</sub>s) and selection of superior segregants for extra long fibre length and fibre strength.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Evaluation of segregating materials (F<sub>3</sub>s) and selection of superior segregants (F<sub>3</sub>s) for extra long fibre length and fibre strength.</li> </ul>	Comparative evaluation of <i>G. hirsutum</i> x <i>G. barbadense</i> and <i>G. hirsutum</i> x <i>G. hirsutum</i> progenies for fibre quality parameters.
		Dr. S. Sivakumar, Professor (PBG) Veppanthattai	<ul style="list-style-type: none"> <li>➤ Generation of new crosses</li> <li>➤ Studies on the available segregating genotypes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Forwardal of identified recombinants.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Quality evaluation and forwardal recombinants.</li> </ul>	Identifying superior recombinants.
2.	Identification of promising cultures and yield evaluation at station trials	Dr. M. Kumar, Professor and Head Dept. of Cotton Coimbatore	<ul style="list-style-type: none"> <li>➤ Study of different yield trials (PVT and AVT)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Study of different yield trials (PVT and AVT)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Seed production of promising cultures identified in AVT</li> </ul>	Identifying promising recombinants.
		Dr. S. Sivakumar, Professor (PBG) Veppanthattai	<ul style="list-style-type: none"> <li>➤ Evaluation of F<sub>2</sub> in summer and F<sub>3</sub> in winter</li> </ul>	<ul style="list-style-type: none"> <li>➤ Yield estimation of pipe line cultures in summer and winter</li> </ul>	<ul style="list-style-type: none"> <li>➤ Yield estimation of pipe line cultures in summer and winter</li> </ul>	

3.	Screening of advanced culture for pest and diseases	Dr. M. Kumar, Professor and Head Dept. of Cotton Coimbatore	Artificial screening of advanced elite cultures for pest & diseases	Artificial screening of advanced elite cultures for pest & diseases	Artificial screening of advanced elite cultures for pest & diseases	Identifying recombinants with superior fibre quality and pest and diseases resistance / tolerance.
4.	Advancement of promising entries to MLT/AICCIP	Dr. M. Kumar, Professor and Head Dept. of Cotton Coimbatore Dr. S. Sivakumar, Professor (PBG) Veppanthattai	MLT-Winter irrigated at CBE and SVPR MLT-Winter rainfed at VPT and KPT	MLT-Winter irrigated at CBE and SVPR MLT-Winter rainfed at VPT and KPT	MLT-Winter irrigated at CBE and SVPR MLT-Winter rainfed at VPT and KPT	Best types will be identified after assessing its performance at various locations.
5.	Conducting OFT/ FLD	Dr. M. Kumar, Professor and Head Dept. of Cotton Coimbatore	Liasioning with ginning mills on utilization of CO 14 lint through contract farming,	Promoting CO 14 through FLDs	Promoting CO 14 through FLDs	Popularization of CO 14 variety.

<b>Theme No. 3</b>		Development of high yielding medium staple cotton varieties ( <i>G.hirsutum</i> L.) resistant to leaf hopper							
<b>Theme Leader</b>		Dr.M.Gnanasekaran, Assistant Professor (PBG) , Cotton Research Station, Srivilliputtur							
<b>S. No</b>	<b>Activity</b>	<b>Name of the scientist and centre</b>	<b>Year 2016-17</b>		<b>Year 2017-18</b>		<b>Year 2018-19</b>		<b>Deliverables / expected out come</b>
			<b>Summer 2016</b>	<b>Winter 2016</b>	<b>Summer 2017</b>	<b>Winter 2017</b>	<b>Summer 2018</b>	<b>Winter 2018</b>	
1	Synthesizing new crosses and evaluation of segregating materials	SVPR: Dr.M.Gnanasekaran, Asst. Prof. (PBG)	Study of segregating materials (F <sub>2</sub> s, F <sub>3</sub> s, F <sub>4</sub> s, F <sub>5</sub> s) and Evaluation of F <sub>1</sub> s and fixing the F <sub>1</sub> s for further studies	Effecting crossing among the high yielding and jassid resistant donors	Studying segregating materials (F <sub>2</sub> s, F <sub>3</sub> s, F <sub>4</sub> s, F <sub>5</sub> s) and Evaluation of F <sub>1</sub> s and fixing the F <sub>1</sub> s for further studies	Effecting crossing among the high yielding and jassid resistant donors	Study of segregating materials (F <sub>2</sub> s, F <sub>3</sub> s, F <sub>4</sub> s, F <sub>5</sub> s) and Evaluation of F <sub>1</sub> s and fix the F <sub>1</sub> s for further studies	Effecting crossing among the high yielding and jassid resistant donors	Newer crosses synthesized for getting desirable recombinants .
2.	Identification of promising cultures and yield evaluation at station trials	SVPR: Dr.M.Gnanasekaran, Asst. Prof. (PBG)	Studing different yield trials (RRYT, PVT, and AVT)	Seed production of promising cultures identified in AVT	Studying different yield trials (RRYT, PVT, and AVT)	Seed production of promising cultures identified in AVT. Artificial screening of advanced cultures against jassids	Studying different yield trials (RRYT, PVT, and AVT)	Seed production of promising cultures identified in AVT Artificial screening of advanced cultures against jassids	Identifying desirable entries with yield and jassids tolerance.

3.	Screening of advanced culture for pest and diseases	SVPR: Dr.K.Sasikumar Asst. Prof. (Ento) Dr.R.Vimala, Professor (Patho)	-	Artificial screening of advanced elite cultures for pest & diseases	-	Artificial screening of advanced elite cultures for pest & diseases	-	Artificial screening of advanced elite cultures for pest & diseases	Confirming the tolerance / resistance of better performing entires.
4.	Advancement of promising entries to MLT/AICCIP	SVPR: Dr.M.Gnanasekaran, Asst. Prof. (PBG) CBE: Dr. N. Premalatha, Asst. Prof. (PBG) VPT: Dr.K.Bharathikumar Asst. Prof. (PBG) KPT: Dr.S.Hariramakrishnan, Asst. Prof. (PBG)	-	MLT- Winter irrigated at CBE and SVPR MLT- Winter rainfed at VPT and KPT	MLT- Summer irrigated at CBE and SVPR	MLT- Winter irrigated at CBE and SVPR MLT- Winter rainfed at VPT and KPT	MLT- Summer irrigated at CBE and SVPR	MLT-Winter irrigated at CBE and SVPR MLT-Winter rainfed at VPT and KPT	Identifying promising genotypes.
5.	Conducting ART and Submission of release proposal	Dr. M.Gnanasekaran, Asst. Prof. (PBG)	Conducting ART with TSH 0499	Obtaining ART results for TSH 0499  TSH 04/115- evaluation in Agronomic requirement in AICCIP	Proposal of TSH 324/TSH 327 to ART  Submission of release proposal of TSH 04/115 to CVRC	Submission of release proposal of TSH 0499 to UTRSC/ SVRC	Repeating the ART with TSH 324/TSH 327 to ART	Obtaining ART results for TSH 324/TSH 327	Release of promising genotypes at National and State level.

<b>Theme No. 4</b>		Development of compact cotton genotypes ( <i>G. hirsutum</i> ) suitable for HDPS and Mechanical harvest				
<b>Theme Leader</b>		M. Gunasekaran, Professor and Head, CRS, Srivilliputtur				
<b>S. No.</b>	<b>Name of the Activity</b>	<b>Name of the scientist and centre</b>	<b>Year 2016-17</b>	<b>Year 2017-18</b>	<b>Year 2018-19</b>	<b>Deliverables</b>
1	Evaluation of advanced breeding lines to identify stable genotypes under rainfed and irrigated conditions	CBE: Dr. N. Premalatha, Asst. Prof. (PBG) SVPR: Dr. M. Gunasekaran, P&H VPT: Dr. K. Bharathikumar, Asst. Prof. (PBG), KPT: Dr. S. Hari Ramakrishnan, Asst. Prof. (PBG)	Evaluation and short listing of genotypes for MLT	Evaluation and short listing of genotypes for MLT/ ART	Evaluation of promising genotypes in ART/ submission of release proposal	Submission of varietal identification proposal for the elite culture
2	Development of compact genotypes with short sympodia and tolerance to biotic and abiotic stress	CBE: Dr. N. Premalatha, Asst. Prof. (PBG) SVPR: Dr. M. Gunasekaran, P&H	Synthesis of new crosses and evaluation of F <sub>1</sub> 's	Evaluation of F <sub>1</sub> and F <sub>2</sub> population and selection of superior segregants	Evaluation of promising segregants and identifying superior progenies.	Identification of superior progenies
3	Seed production of promising short sympodial genotypes to meet the requirement for MLT, ART and for large scale demonstration	CBE: Dr. N. Premalatha, Asst. Prof. (PBG) SVPR: Dr. M. Gunasekaran, P&H	Seed production of promising genotypes: TCH1819 and TCH 1822	Seed production of promising genotypes: TCH1819 and TCH 1822	Seed production of promising genotypes: TCH1819 and TCH 1822 and submission of release proposal.	Seed production of promising genotypes: TCH1819 and TCH 1822
4	Optimization of spacing and fertilizer requirement for TCH 1819 under HDPS	SVPR: Dr. ChelviRameesh, Asst. Prof. (Agron) CBE : Dr. Subbalakshmi Lokanadhan, Prof. (Agon.)	Conducting field experiments (confirmation study)	Large scale field demonstration	Arriving at package of practices for TCH 1819 under HDPS	Recommendation of suitable spacing, fertilizer and including it is package of practices.

5	Developing suitable Integrated Pest and Disease Management (IPDM) module for HDPS	SVPR: Mr. K. Sasikumar, Asst. Prof. (Ento) Dr. R. Vimala, Prof. (Patho)	Field experiment on IPDM under HDPS	Confirmation experiment on IPDM under HDPS	Large scale demonstration of IPDM on HDPS	Recommendation of suitable IPDM for HDPS
6	Management of plant geometry through growth retardants under HDPS	SVPR: Dr. ChelviRameesh, Asst. Prof. (Agron)	Field experiment using growth retardant	Field experiment using growth retardant(Confirmation study)	Large scale field demonstration	Recommendation of suitable dose for adoption
7	On farm research cum demonstration of HDPS in farmer's field	CBE: Dr. N. Premalatha, Asst. Prof. (PBG) SVPR: Dr. M. Gunasekaran, P&H VPT: Dr. K. Bharathikumar, Asst. Prof. (PBG), KPT: Dr. S. Hari Ramakrishnan, Asst. Prof. (PBG)	Large scale demonstration of TCH1819 in the farmers field	Large scale demonstration of TCH1819 in the farmers field	Large scale demonstration of TCH1819 in the farmers field	Creating confidence among the farmers about the culture and its cultivation.
8	Demonstration of implements and machinery for mechanized cultivation	CBE: Dr. N. Premalatha, Asst. Prof. (PBG) SVPR: Dr. M. Gunasekaran, P&H VPT: Dr. K. Bharathikumar, Asst. Prof. (PBG), KPT: Dr. S. Hari Ramakrishnan, Asst. Prof. (PBG)	Demonstration of labour saving implements particularly for line sowing, weeding and earthing up etc	Demonstration of labour saving implements particularly for line sowing, weeding and earthing up etc	Demonstration of labour saving implements particularly for line sowing, weeding and earthing up etc	Large scale Popularisation and adoption of technology by cotton farmers particularly in rainfed situation





<b>Theme No. 5</b>		Development of short duration cotton varieties ( <i>G.hirsutum</i> L.) suitable for rice fallow cotton							
<b>Theme Leader</b>		Dr.K. Thiyagu, Assistant Professor (PBG) , Cotton Research Station, Srivilliputtur							
<b>S. No.</b>	<b>Activity</b>	<b>Name of the scientist and centre</b>	<b>Year 2016-17</b>		<b>Year 2017-18</b>		<b>Year 2018-19</b>		<b>Deliverables</b>
			<b>Winter 2016</b>	<b>Summer 2017</b>	<b>Winter 2017</b>	<b>Summer 2018</b>	<b>Winter 2018</b>	<b>Summer 2019</b>	
1	Selection of genotypes and synthesizing of new cross	SVPR: Dr.K. Thiyagu, Asst. Prof. (PBG)	Synthesis of new crosses among early duration (KC 2, KC 3, TCH 1705, TCH 1818, TCH 1819) with high yielding (MCU 5, MCU 12, MCU 13, TCH 1716, TCH 1608, SVPR 2, SVPR 4, TSH 0250, TSH 0499) genotypes	-	Synthesis of new crosses among early duration (TCH 1820, TCH 1821, TKH 1185, G Cot 20, Suraj) with high yielding (MCU 5, MCU 12, MCU 13, TCH 1716, TCH 1608, SVPR 2, SVPR 4, TSH 0250, TSH 0499) genotypes	-	Synthesis of new crosses among early duration (SCS 793, SCS 1001, SCS 1062, GJHV 160 and TCH 484-7) with high yielding (MCU 5, MCU 12, MCU 13, TCH 1716, TCH 1608, SVPR 2, SVPR 4, TSH 0250, TSH 0499) genotypes	-	Identifying superior crosses and forwardal of progenies.
		CBE: Dr. P. Amala Balu, Professor (PBG)	Generation of new crosses with MCU 7, SVPR 3 and TCH 1819		Evaluation of segregating materials (F <sub>2</sub> s) and selection of superior segregants for early entries with 135 days		Evaluation of segregating materials (F <sub>3</sub> s) and selection of superior segregants (F <sub>3</sub> s) for early entries with 135 days		Identifying better performing genotypes with lesser duration.

2.	Evaluation and selection F <sub>1</sub> s for further advancement	SVPR: Dr.K. Thiyagu, Asst. Prof. (PBG)	-	Evaluation of synthesised F <sub>1</sub> s for high yield and short duration and its advancement	-	Evaluation of synthesised F <sub>1</sub> s for high yield and short duration and its advancement	-	Evaluation of synthesised F <sub>1</sub> s for high yield and short duration and its advancement	Selection of superior hybrid for further evaluation
3.	Evaluation of segregating materials	SVPR: Dr.K. Thiyagu, Asst. Prof. (PBG)	-	-	-	Evaluation of segregating materials (F <sub>2</sub> s) from the selected hybrid combinations	-	Evaluation of segregating materials (F <sub>2</sub> s and F <sub>3</sub> s) and Selection of superior segregants from F <sub>2</sub> s for further advancement	Selection of superior segregants for further advancement

<b>Theme No. 6</b>		Development of diploid cotton ( <i>G. arboreum</i> ) with high yield and fibre length as well as suitable for surgical purpose				
<b>Theme Leader</b>		Dr.S. Hari Ramakrishnan, Assistant Professor, ARS, Kovilpatty				
<b>S. No.</b>	<b>Name of the Activity</b>	<b>Name of the scientist and centre</b>	<b>Year 2016-17</b>	<b>Year 2017-18</b>	<b>Year 2018-19</b>	<b>Deliverables</b>
1	Selection of genotypes and synthesizing of new cross	KPT: Dr. S. Hari Ramakrishnan, Asst. Prof. (PBG)	-	Selection of <i>G. arboreum</i> genotypes with high micronaire value and effecting crosses among the selected genotypes	Selection of <i>G. arboreum</i> genotypes with higher boll weight, fibre length and high micronaire and effecting crosses among the selected genotypes	Identifying crosses with higher mic & boll traits.
2	Evaluation and selection F <sub>1</sub> s for further advancement	KPT: Dr. S. Hari Ramakrishnan, Asst. Prof. (PBG)	Evaluation of F <sub>1</sub> s and selection of superior F <sub>1</sub> s towards higher boll weight and fibre length for further studies	Evaluation of F <sub>1</sub> s and selection of superior F <sub>1</sub> s towards higher micronaire value for further studies	Evaluation of F <sub>1</sub> s and selection of superior F <sub>1</sub> s towards higher boll weight, fibre length and micronaire value for further progenies studies	Identifying crosses / genotypes with higher bolls and higher mic.
3	Evaluation of segregating materials	KPT: Dr. S. Hari Ramakrishnan, Asst. Prof. (PBG)	-	Evaluation of segregating materials (F <sub>2</sub> s) and selection of superior segregants for higher boll weight and fibre length	Evaluation of segregating materials (F <sub>2</sub> s) and selection of superior segregants (F <sub>3</sub> s) for higher boll weight, fibre length and micronaire value	Identification of superior segregants

**Department of Cotton, CPBG, TNAU, Coimbatore**

This is prepared in common as most of the scientific research activities are coinciding with the start of cropping season  
(August 2016 to May 2017)

<b>Activities</b>	<b>July 16 - September 16</b>	<b>October 16 - December 16</b>	<b>Jan 17 - March 17</b>	<b>April 17 - June 17</b>
Preparatory works, seed ginning, acid delinting, dispatch of seeds to ART and MLTs, field preparation for taking up URP (7 trials) and ICAR AICRP trials (25 numbers: 6 in PBG; 5 in Agronomy; 8 in Entomology and 6 in Pathology) and student trials	√√√√			
Field observations		√√√√	√√√√	
Fibre quality analysis of all the trials				√√√√
Identification of field locations to take up rice fallow trials in the CDZ		√√√√		
Preparation of seed material for taking up rice fallow trials		√√√√		
Laying out rice fallow experiments at identified locations (A minimum of 90 trials with TCH 1819 and TCH 1822 cultures)			√√√√	
Organizing field demonstrations under Tamil Nadu Cotton Cultivation Mission Project (TNCCM)			√√√√	
Pests and Diseases monitoring	√√√√	√√√√	√√√√	
ICAR AICRP workshop participation during April - May 2017				√√√√
Crop Scientists' Meet 2017 of the University and proposing TCH 1819 culture for release during 2018				√√√√

### Cotton Research Station, Srivilliputtur

This is prepared in common as most of the scientific research activities are coinciding with the start of cropping season  
(Aug.16 - May 17)

Activities	Apr. 16 - June 16	July 16 - Sep. 16	Oct. 16 - Dec. 16	Jan. 17 - Mar. 17	Apr. 17 - June 17
Report preparation and Attending Annual meeting on AICCIP 2016 and CSM 2016; Physical Verification of stocks (2016)	√√√√				
Lay out of OFT on Integrated Weed Management in cotton; NADP - Micro irrigation - Third party inspection	√√√√	√√√√			
Dispatch of seeds to MLTs, Fibre quality analysis for URP (Summer 2016) and AICCIP (Winter 2016-17) trials, Preparation of sowing materials for winter 2016-17 (AICCIP, Crossing materials for URP, Breeder seed production and Seed production of elite culture), Sowing, Cultivation and Management practices for good crop stand, Evaluation and data collection in experimental trials, Preparation and submission of variety release proposal - TSH 04/115 to AICCIP workshop and TSH 0499 to SVRC, Report preparation and Attending Annual meeting on AICCIP 2017 and CSM 2017 and Physical Verification of stocks (2017)	√√√√	√√√√	√√√√	√√√√	√√√√
Large scale demonstration cum research trials under TNCCM scheme using TCH 1819 compact culture - Selection of farmer's field, lay out, purchase of inputs and distribution, field visit, conducting of field day, report preparation and submission		√√√√	√√√√	√√√√	√√√√
FLD and TSP (ICAR) - Administrative and Financial sanction, Selection of farmers, purchase of critical inputs and distribution to the farmers, organizing trainings and reporting	√√√√	√√√√	√√√√	√√√√	
Preparation of sowing materials for Summer 2017 (Evaluation of F <sub>1</sub> s segregating materials, Agronomic practices for elite cultures, Screening for pest and disease management practices), Sowing, Management practices for good crop stand, Evaluation and data collection in experimental trials and Fibre quality analysis for URP (Summer 2017)				√√√√	√√√√
Plant Clinic Center activities	√√√√	√√√√	√√√√	√√√√	√√√√

Pests and Diseases monitoring	√√√√	√√√√	√√√√	√√√√	√√√√
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**Cotton Research Station, Veppanthattai**

Activities	July 16 - September 16	October 16 - December 16	January 17 - March 17	April 17 - June 17
1. Land preparation, ginning of seed materials, field layout and taking up sowing. URP - Plant Breeding - Agronomy -5 Plant Pathology - 2 Externally - Schemes/Project Plant Breeding - 2 Agronomy - 2 MLT - Plant Breeding OFT - SS&AC - 1	√√√			
2. Field observation Growth characters, Yield attributes		√√√		
3. Estimation of yield / Fibre quality analysis			√√√	
4. Analysis of data, Report preparation for pre-review, Crop Scientist Meet/AICCIIP workshop.				√√√
5. Organizing Field demonstration - TNCCM scheme, Monitoring, Report preparation	√√√	√√√	√√√	√√√

**Department of Cotton, CPBG, TNAU, Coimbatore**

<b>Scientist and his/ her Designation</b>	<b>Present work load</b>	<b>Proposed work schedule during 2016-17</b>
M. Kumar, Professor and Head	<ul style="list-style-type: none"> <li>➤ Coordinating the activities of the Department of Cotton</li> <li>➤ Offering PGR 611 Conservation Genetics 2+1 course to PGR students</li> <li>➤ Guiding two M.Sc.(Ag.) scholars and two Ph. D. Scholars.</li> </ul>	<p>Identified as Team leader for carrying research on long and extra long staple cotton development</p> <p><b>Activities to be undertaken:</b></p> <p>Identification of superior progenies from the <i>G. hirsutum</i> x <i>G. barbadense</i> (15 x 6 cross combinations) already raised and due for harvest during July 2016</p> <p>Raising of successful cross combinations during August 2016</p> <p>Coordinating the activities of the Department especially in the lines of wild species collection and characterization, cytogenetic studies utilizing the wild species, promotion of TCH 1819 compact cotton culture in the delta districts during rice fallow situation, liasioning with ginning mills on utilization of CO 14 lint through contract farming, strengthening the infrastructure of the Department through purchase of High volume instrument, one power tiller, farm accessories etc.</p>



<p>P. Amala Balu Professor (PBG)</p>	<p><b>1. Research</b></p> <ul style="list-style-type: none"> <li>➤ Conducting All India Coordinated Cotton Improvement project (AICCIP) trials</li> </ul> <p><b>2. Teaching</b></p> <ul style="list-style-type: none"> <li>➤ Course Teacher for three courses <ul style="list-style-type: none"> <li>• I M.Sc. (Ag.) - GPB 609 Breeding Fibre and Sugar crops (1+1)</li> <li>• I M.Sc. (Ag.) - PGR 608 Utilization of Plant Genetic resources through classical approaches (2+1)</li> <li>• I Ph.D. (Ag.) - GPB 806 Breeding for stress (2+1)</li> </ul> </li> <li>➤ Chairperson for three students <ul style="list-style-type: none"> <li>• Mr. ISONG II Ph.D. - Generation Mean Analysis and molecular studies in cotton inter-specific crosses.</li> <li>• Miss. Nandini II M.Sc. (Ag.) - Genetic analysis in cotton</li> <li>• Miss. Abirami I M.Sc. (Ag.) - Diversity studies in Cotton</li> </ul> </li> </ul> <p><b>3. Extension</b></p> <ul style="list-style-type: none"> <li>• Involved in conducting FLD for popularizing Cotton CO 14.</li> </ul>	<p><b>Activities to be undertaken:</b></p> <ol style="list-style-type: none"> <li>1. Conducting six AICCIP trials allotted for the year 2016-17 (6 trials)</li> <li>2. Seed production of cotton CO 14 to distribute farmers and also for conducting FLD and OFT trials.</li> <li>3. Popularization of Cotton CO14 through FLD and OFT</li> <li>4. Conducting MLT for the year 2016-17</li> <li>5. Identifying promising culture for hybridization programme.</li> <li>6. Conducting AYT and PYT trials and evaluating entries for high yield and good fibre quality.</li> <li>7. Handling allotted PG and Ph.D., courses.</li> <li>8. Guiding the students for the completion of their thesis work</li> </ol>
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<p>L. Mahalingam, Professor (PB&amp;G)</p>	<p><b>1. Research</b></p> <p>Lists of university sub projects - Two</p> <ol style="list-style-type: none"> <li>1. Maintenance and production of nucleus and breeder seeds of cotton varieties of department of cotton, Coimbatore</li> <li>2. Development of bollworm resistant of cotton varieties by introgression of genes from wild relatives.</li> </ol> <p><b>2. Teaching</b></p> <ul style="list-style-type: none"> <li>➤ Offering one M.Sc. (Ag.) course: PGR 607 Principles and practices of germplasm characterization and documentation (2+1) to PGR students.</li> </ul> <p><b>3. Chairperson for two students</b></p> <ol style="list-style-type: none"> <li>1. P.Ramakrishnan II Ph.D. - Marker assisted backcross breeding for the improvement of foliar diseases in groundnut.</li> <li>2. K.Manonmani I M.Sc. (Ag.) - Studies on combining ability and heterosis in <i>hirsutum</i> cotton.</li> </ol> <p><b>4. Additional Responsibilities</b></p> <ul style="list-style-type: none"> <li>➤ Co-ordinating the farm activities as Farm Superintendent.</li> </ul>	<p><b>Nucleus Seed Production :</b></p> <p><b>Period:</b> August 16 - February 17</p> <ul style="list-style-type: none"> <li>➤ Raising of plant to row progeny from selected selfed plants confirming to the standards</li> <li>➤ The nucleus seed production plot will be critically observed for all the morphological characters during different growth periods.</li> <li>➤ If any plant is found to be deviant at any stage in plant to row for any character, the whole progeny row will be deleted</li> <li>➤ The selected plants will be individually observed for various distinguishing morphological characters.</li> <li>➤ Mean and standard deviation for kapas yield will be worked out.</li> <li>➤ The kapas will be pooled from progeny row which lie within the mean <math>\pm 2</math> SE and will be used for raising of breeder seed production.</li> </ul> <p><b>Breeder seed production</b></p> <p><b>Period:</b> August 16 - February 17</p> <ul style="list-style-type: none"> <li>➤ Raising of breeder seed crop by using the nucleus seeds already produced</li> <li>➤ Removal of off types, if any</li> <li>➤ Selection of 100-200 single plants based on morphological identity</li> <li>➤ Harvesting of breeder seed crop separately and distribution of breeder seeds based on target and indent</li> <li>➤ Harvesting selected single plants separately and preserving the kapas for evaluation and maintaining the nucleus seed during</li> </ul>
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		<p>next year.</p> <p><b>Period:</b> June 16 – August 16: Effecting crosses</p> <p><b>Period:</b> August 16 – February 17: Raising of crossed progenies.</p> <ul style="list-style-type: none"> <li>➤ Fresh crosses will be effected between the CO 14 cotton and <i>Gossypium sturtianum</i> and <i>Gossypium gossypiodes</i> wild species.</li> <li>➤ Working out the boll setting percentage</li> <li>➤ Collection of crossed bolls</li> <li>➤ Raising of F<sub>1</sub> generation and pollen fertility study</li> <li>➤ Observations on locule number, seed set, change in surface morphology, lint &amp; fineness etc in both F<sub>1</sub> and their parents.</li> <li>➤ Observation on boll damage.</li> </ul> <p><b>Student:</b> Ms. K. Manonmani</p> <ul style="list-style-type: none"> <li>- Will be allotted a thesis problem on isolating desirable segregants from intra <i>hirsutum</i> crosses and their genetic analysis.</li> </ul> <p><b>Period:</b> August 16 – February 17 at field trials  March 17 to June 17 – quality analysis of fibre samples.</p>
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<p>N.Premalatha Assistant Professor (PBG)</p>	<p><b>1. Research:</b></p> <p><b>Handling following projects:</b></p> <ol style="list-style-type: none"> <li>1. University research projects: 2 Nos.</li> <li>2. TNCCM scheme funded by Agriculture Department, Govt. of Tamil Nadu: 1 No.</li> </ol> <p><b>2. Teaching:</b></p> <ul style="list-style-type: none"> <li>• Handling practical classes to PGR students (PG) ( Course No. and Title : PGR 611 Conservation Genetics 2+1 )</li> <li>• Handling practical classes to Under graduate students of IV year II Semester (Course No. and Title : PBG 401 Breeding field crops and horticultural crops (2+1))</li> </ul> <p><b>3. Additional Responsibility:</b></p> <ul style="list-style-type: none"> <li>• Farm Manager – Regular farm activities</li> </ul>	<p><b>Activities to be undertaken:</b></p> <p><b>University Research Project:</b></p> <ol style="list-style-type: none"> <li>1. Evaluation of 400 germplasm of <i>G. hirsutum</i> with 10 checks for characterization, documentation and for preparing a database in collaboration of PGR (Period: April 16 – February 17)</li> <li>2. a. Raising crossing block with the objective of developing compact plant type. (6 female parents: 4 male parents) (Period: August 16 – January 17) b. Analysing the parents for yield fibre quality parameters (Period: February 17 – April 17)</li> <li>3. Evaluation of the segregating materials (27 F<sub>3</sub> &amp; 4 F<sub>4</sub> cross combinations) for compact plant type with long staple length and fibre strength (Period: August 16 – March 17)</li> <li>4. Conducting yield trials <i>viz.</i>, Replicated row yield trial preliminary yield trials and advanced yield trials for compact plant types identified earlier (Period: February 17 – April 17)</li> <li>5. Conducting multilocation trials 2016-17 (Period: August 16 - February 17)</li> <li>6. Conducting 30 Nos. of ARTs at the identified locations through KVKs for TCH 1819 and TCH 1822 (Period: August 16 – March 17)</li> <li>7. Evolution of Bt cotton hybrids received from the private companies for yield and quality parameters (Period: August 16 – March 17)</li> <li>8. Organizing field demonstrations and field day under Tamil Nadu Cotton Cultivation Mission Project (TNCCM)</li> </ol>
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		<b>Additional responsibility:</b> Farm Manager – Regular farm activities
Subbalakshmi Lokanadhan Professor (PBG)	<p><b>1. Research</b></p> <ul style="list-style-type: none"> <li>➤ Conducting All India Coordinated Cotton Improvement project (AICCIP) trials.</li> <li>➤ One University Research Project to be proposed.</li> </ul> <p><b>2. Teaching:</b></p> <ul style="list-style-type: none"> <li>➤ Handling allotted UG &amp; PG course as per allotment.</li> </ul> <p><b>3. Extension:</b></p> <ul style="list-style-type: none"> <li>➤ AICCIP - FLD Physical and Financial Targets for Front Line Demonstration on Cotton under NFSM - Commercial Crops during 2016-17</li> <li>➤ Answering to queries raised by farmers of Tamil Nadu.</li> <li>➤ Assisting in conduct of FLD and monitoring by visiting demo under FLD</li> </ul>	<p><b>1. Research:</b></p> <ul style="list-style-type: none"> <li>➤ AICRP/ PBG/SVR/ COT/024 - Tamil Nadu Cotton Cultivation Mission - Compact genotypes evaluation under HDPS &amp; standardizing agronomic practices for organic cotton</li> <li>➤ As per the technical programme of Annual Group Meet AICRP on cotton the following AICCIP Agronomy trials were allotted for Department of Cotton, TNAU 2016-2017.</li> </ul> <ol style="list-style-type: none"> <li>1. Agronomy IA: Agronomic requirements of promising pre-release/ recently released <i>hirsutum /arboreum</i> genotypes/ hybrids of cotton</li> <li>2. Agronomy IB: Evaluation of compact culture under HDPS with different nutrient levels.</li> <li>3. Agronomy II: Developing suitable Agronomy for Bt hybrids of the region</li> <li>4. Agronomy V: Technology for organic cotton Production.</li> <li>5. Agronomy VIII: Evaluation of Desi cotton entries under HDPS</li> </ol> <p><b>2. Teaching</b></p> <ul style="list-style-type: none"> <li>➤ AGR 608 - Agronomy of Sugar, Fibre and Forage Crops (2+1)</li> <li>➤ + two more course as per the allotment.</li> </ul> <p><b>3. Additional Responsibilities:</b></p> <ul style="list-style-type: none"> <li>➤ Consolidation and scrutiny of reports with regard to Cotton crop and works related to Cotton Scientist meet and SWC as Cotton agronomist.</li> <li>➤ Sending weekly weather advisory and forecast to CICR.</li> </ul>

<p>K. Senguttuvan, Assistant Professor (Entomology)</p>	<p><b>1. Research</b></p> <ul style="list-style-type: none"> <li>• AICRP on Cotton (Entomology part)</li> <li>• Pests monitoring in the cotton fields</li> <li>• University sub projects - One CPPS/CBE/ENT/COT/2015/001 - Studies on thrips diversity of cotton ecosystem and it's management</li> </ul> <p><b>2. Teaching</b></p> <p>Course associate for B.Sc. (Ag.) AEN 401 Pests of Horticultural crops and their Management (2+1)</p> <p><b>3. Additional Responsibilities</b></p> <ul style="list-style-type: none"> <li>➤ Computer maintenance in-charge</li> <li>➤ Purchase of Farm chemicals</li> <li>➤ Insect arrangements for Insect Museum</li> <li>➤ Database development for TNAU Insect collection.</li> </ul> <p>Website updating for Cotton and CPPS pages</p>	<p><b>1. Research</b></p> <p><b>AICRP Technical programme</b> <b>Period: August 2016 - February 2017</b></p> <p>As per the technical programme of Annual Group Meet AICRP on cotton, the following eight AICCRIP entomology trials are allotted to the Department of Cotton, TNAU during kharif 2016.</p> <ol style="list-style-type: none"> <li>1. Ent. 1 (a): Screening of breeding material for resistance to insect pests (National &amp; Zonal Trials)</li> <li>2. Ent. 1 (b): Advanced screening of promising entries for development of repository for sucking pests</li> <li>3. Ent. 2: Population dynamics to develop suitable forecasting mode</li> <li>4. Ent. 4: Survey for key and emerging pests in cotton in Farmers Field for weekly advisory</li> <li>5. Ent 5.b.To study the efficacy of combination insecticides against pests of cotton (Sucking pests and Boll worms) -(Paid up trial by Dow Agro Sciences India Pvt. Ltd).</li> <li>6. Ent 6 b: Evaluation of Mating Disruption Pheromone for the Pink Boll worm -Paid up trial by Bio-Bee India</li> <li>7. Ent 7:Evaluation of egg parasitoid <i>Trichogramma bactrae</i> through inundative release</li> <li>8. Ent 8: Entomologists of all centers will record observations in the Agron1B (HDPS evaluation trial) and Agron -V(Tech for organic cotton production) of their centre as per the population dynamics observation sheet.</li> </ol> <p><b>University Research Project</b></p>
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		<ul style="list-style-type: none"> <li>• Developing phylogenetic key characters for Thrips taxon</li> <li>• Developing management strategies for cotton thrips.</li> </ul> <p><b>2. Teaching</b></p> <ul style="list-style-type: none"> <li>• UG courses as per the allotment</li> </ul> <p><b>3. Additional Responsibilities</b></p> <ul style="list-style-type: none"> <li>• Will be continued</li> </ul>
<p>P. Latha, Assistant Professor (Plant Pathology)</p>	<p><b>1. Research</b></p> <ul style="list-style-type: none"> <li>• AICRP on Cotton (Plant Pathology part)</li> <li>• Crop Scientist Meet on Cotton</li> </ul> <p><b>2. Teaching</b></p> <ul style="list-style-type: none"> <li>• Experiential Learning - Commercial Production of Mushroom (0+5)</li> <li>• Mushroom Cultivation</li> <li>• Principles of Plant Pathology</li> </ul> <p><b>3. Additional Responsibilities</b></p> <ul style="list-style-type: none"> <li>• Assisting in the Post Entry Quarantine (PEQ) activities.</li> <li>• In charge of casual labourers, Dept. of Plant Pathology, TNAU, Coimbatore.</li> <li>• Assisting in Mushroom works.</li> <li>• Conducting one day and five day mushroom training programmes.</li> <li>• Compilation of AICRP Monthly, Quarterly and Half yearly reports, Dept. of Cotton, TNAU, Coimbatore.</li> <li>• In charge in the Tribal Sub Plan Scheme on Cotton.</li> <li>• Principal Investigator of Venture Capital Mushroom Scheme.</li> </ul>	<p><b>AICRP Technical programme</b></p> <p>As per the technical programme (2016-2017) of Annual Group Meet AICRP on cotton, the following six AICCIP plant pathology trials are allotted to the Department of Cotton, TNAU, Coimbatore during kharif 2016 (August 2016-March 2017).</p> <ol style="list-style-type: none"> <li>1. Path.1: Epidemiological studies on cotton diseases</li> <li>2. 1(b): Disease progress in relation to weather factors</li> <li>3. 1(c): Studies on the variability of Alternaria leaf spot</li> <li>4. 1(d) Survey and Epidemiology of TSV</li> <li>5. Path. 2: (a) Screening of breeding lines for disease reaction</li> <li>6. Path.2 (b) Confirmation and maintenance of disease resistant lines</li> </ol> <p><b>Plant Protection: Thrust Areas</b></p> <ol style="list-style-type: none"> <li>1. Pest surveillance and forecasting</li> <li>2. Population of dynamics and epidemiology of diseases</li> <li>3. Host plant resistance</li> <li>4. Integrated Pest Management (using ecofriendly agents; biocontrol agents and chemicals)</li> </ol> <p>The trials will be taken up during August 2016.</p>

- Co-PI of DST Scheme, NRDMS DIVISION, New Delhi.

**Cotton Research Station, Srivilliputtur**

Scientist Name and Designation	Present workload	Proposed work schedule during 2016-17
<p>M. Gunasekaran Professor (PBG) and Head</p>	<p><b>Administration:</b> Coordinating the activities of Cotton Research Station, Srivilliputtur</p> <p><b>Research:</b> PI in TNCCM Scheme - involved with evolution and evaluation of compact cotton genotypes suitable for HDPS and mechanized harvest</p> <p><b>Extension:</b> Coordination of conducting FLD (ICAR) on cotton and TSP Conducting large scale demonstration of TCH 1819 in farmer's field of Madurai and Virudhunagar district Attending zonal and other related meeting organized by Dept. of Agriculture Member in Agricultural Production Council, District Watershed Committee, District cotton Committee Strengthening infra structure facilities - purchased laboratory ginning machine, farm implements, bag closure, weighing machine etc.,</p>	<p>Identified as Team leader for carrying research on developing compact genotypes suitable for HDPS and mechanized harvesting</p> <p><b>Activities to be undertaken:</b></p> <ul style="list-style-type: none"> <li>• Evaluation of segregating materials and selection of superior segregants and progenies for compact short duration plant types</li> <li>• Laying out multilocation trials for HDPS</li> <li>• Seed production of TCH 1819 for the supply of seed materials for large scale demonstration in the farmer's field</li> <li>• Large scale demonstration of TCH 1819 in ensuing season (Sep.-Oct.) in farmer's field of Madurai and Virudhunagar district</li> <li>• Coordination of ICAR-FLD, ICAR-TSP activities</li> <li>• Coordination of research activities at CRS, Srivilliputtur</li> </ul>



<p>R. Vimala Professor (Pathology)</p>	<ul style="list-style-type: none"> <li>• PCC activities</li> <li>• Farm Superintendent</li> <li>• Compilation of Station Monthly report</li> <li>• Scientist in charge for library</li> <li>• URP - Screening of cotton accessions for resistance to major foliar and root diseases (June 2013 to May 2016)</li> </ul>	<p><b>Activities to be undertaken:</b></p> <ul style="list-style-type: none"> <li>• URP - Field experiment on management of diseases with different fungicides in cotton under HDPS</li> <li>• PCC activities</li> <li>• CSM, 2016 Action Plan (Plant protection)</li> <li>• Farm Superintendent</li> <li>• Compilation of Station Monthly report</li> <li>• Scientist in charge for library</li> <li>• Weekly diseases monitoring</li> </ul>
<p>Chelviramessh Asst. Professor (Agron.)</p>	<ul style="list-style-type: none"> <li>• In-Charge of Agronomic experiments under AICCIP, URP and Action plan of CSM</li> <li>• In charge of AICRP- FLD &amp; AICRP -TSP</li> <li>• Compilation of reports for CSM - cotton and oilseeds, Reports for SWC, RREAC, Annual Review Report for Director of Research and Vice-Chancellor</li> <li>• Meteorological observatory</li> <li>• Weekly Weather Advisory report</li> <li>• Scientist in charge under NADP as a member of third party inspection for Srivilliputtur block and Resource person for agronomic technologies for Virudhunagar district</li> </ul>	<p><b>URP</b> "Management of plant density and architecture under high density planting system (HDPS) for mechanized cotton production". The experiment will be conducted during August, 2016 under winter irrigated condition with the objective to find out the optimum schedule of Mepiquat chloride to arrest excessive vegetative growth under HDPS and to find out appropriate time of application of defoliant to facilitate mechanical harvest.</p> <p><b>AICCIP Experiments</b></p> <ul style="list-style-type: none"> <li>• Agron. IB - Evaluation of compact culture under HDPS with different nutrient levels</li> <li>• 2. Agronomy II - Developing suitable agronomy for Bt hybrids of the region</li> <li>• Agronomy V - Technology for organic cotton production</li> <li>• Agron. VIII - Evaluation of Desi (<i>arboreum</i>) genotypes under HDPS</li> </ul> <p><b>CSM, 2016 Action Plan</b></p> <ul style="list-style-type: none"> <li>• Strategies for enhancing quality and productivity</li> </ul>

		<p>of organic cotton</p> <p><b>TNCCM</b></p> <ul style="list-style-type: none"> <li>• High density planting of TCH 1819 to suit mechanized cotton cultivation</li> </ul> <p><b>OFT</b></p> <ul style="list-style-type: none"> <li>• Integrated Weed Management in cotton</li> </ul> <p><b>AICRP -FLD &amp; AICRP -TSP</b></p>
M. Gnanasekaran Asst. Professor (PBG)	<ul style="list-style-type: none"> <li>• Evaluation of AICRP on cotton - breeding trials</li> <li>• Handling one university sub project on development of medium staple cotton varieties with resistant to jassid</li> <li>• Breeder and TFL seed production - SVPR 1 sesame variety</li> <li>• Assisting in Breeder and TFL seed production of Cotton varieties SVPR 2, SVPR 3 and SVPR 4</li> <li>• Assisting in the AICRP on Cotton-Tribal Sub Plan activities</li> <li>• Evaluation of MLT on Cotton and Sesame</li> <li>• BSP&amp;TFL Monthly report consolidation</li> <li>• In charge Scientist for Rajapalayam Block under NADP</li> </ul>	<p>Identified as Team leader for carrying research on Medium staple cotton (<i>G.hirsutum</i>) development</p> <p><b>Activities to be undertaken:</b></p> <ul style="list-style-type: none"> <li>• Evaluation of hybrids (HxH) which were developed in previous winter season 2015 already raised and due for harvest during July 2016. Identification superior F<sub>1</sub>s for progenies studies and selection towards medium staple cotton coupled with resistant to jassid.</li> <li>• Identification of superior progenies from the segregating materials (F<sub>2</sub>s, F<sub>3</sub>s, F<sub>4</sub>s, F<sub>5</sub>s) already raised in Summer 2016 for further advancements</li> <li>• Evaluation of various breeding trials <i>viz.</i>, RRYT, PVT, AVT, MLT on <i>hirsutum</i> trials already raised and due for harvest during July 2016 and advancement for further evaluation.</li> <li>• Conducting various breeding trials received under AICCIP during winter 2016 season</li> <li>• Seed production with elite cultures identified in AVT in winter 2016 season for proposing to MLT and AICCIP trials during winter 2017.</li> <li>• Raising crossing block with high yielding and jassid resistance parents during winter 2016 in order to synthesis different recombinants for further evaluations during summer 2017.</li> </ul>

<p>K. Thiyagu Asst. Professor (PBG)</p>	<ul style="list-style-type: none"> <li>• Evaluation of AICRP on cotton - breeding trials</li> <li>• Handling Two University Sub projects - 1. Nucleus and Breeder seed production of cotton varieties (SVPR 2, 3 and 4) 2. Development of short duration with high yield cotton genotypes suitable for rice fallow conditions</li> <li>• Breeder and TFL seed production in cotton varieties SVPR 2, SVPR 3 and SVPR 4</li> <li>• Assisting in TFL seed production of Sesame SVPR 1</li> <li>• Farm manager in Main and Old farm of CRS, SVPR</li> <li>• In charge scientist for Private Bt cotton testing study 2015-16</li> <li>• In charge scientist for Watrap Block under NADP</li> </ul>	<p>Identified as Team leader for carrying research on development of Rice fallow cotton (<i>G.hirsutum</i>)</p> <p><b>Activities to be undertaken:</b></p> <ul style="list-style-type: none"> <li>• Nucleus seed production of cotton varieties SVPR 2, SVPR 3 and SVPR 4</li> <li>• Breeder seed production of cotton varieties SVPR 2, SVPR 3 and SVPR 4 and supply based on the production indent and despatch instruction</li> <li>• Raising of crossing block with cotton genotypes having early duration and high yield parents during winter 2016 in order to synthesis different recombinants.</li> <li>• Identification of superior F<sub>1</sub>s for progenies studies and selection towards short duration cotton coupled with high seed cotton yield during summer 2017.</li> <li>• Conducting various breeding trials received under AICCIP during winter 2016 season.</li> <li>• Farm administration: Main and Old farm of CRS, Srivilliputtur and maintenance of farm tractors and implements</li> </ul>
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<p>K. Sasikumar Asst. Professor (Ento.)</p>	<ul style="list-style-type: none"> <li>• In charge of AICCIP Scheme for Entomology part</li> <li>• In charge of Private Bio efficacy scheme for GSP crop science Pvt. Ltd.</li> <li>• In charge of AICCIP - TSP scheme</li> <li>• Compilation of planning and monitoring and video conference report.</li> <li>• In charge of condemnation of unserviceable articles.</li> <li>• Scientist in charge for Vembakottai block.</li> <li>• Weekly pest and disease advisory report- AICCIP</li> <li>• Maintenance of vehicle office Jeep</li> </ul>	<p><b>URP</b> Field experiment on management of pink bollworm in cotton with different insecticides and pest monitoring.</p> <p><b>AICCIP and CSM Experiments</b></p> <ul style="list-style-type: none"> <li>• Screening of breeding material for resistance to insect pests.</li> <li>• Population dynamics to develop suitable forecasting model</li> <li>• Survey for key and emerging pests in cotton in Farmers Field for weekly advisory</li> <li>• To study the efficacy of combination insecticides against pests of cotton (Sucking pests and Boll worms)</li> <li>• Evaluation of pheromone traps and lures against Cotton Pink Boll worm through mass trapping.</li> <li>• Evaluation of egg parasitoid <i>Trichogramma bactrae</i> through inundative release.</li> <li>• Pest observation on HDPS from Agronomy trial Agron. IB and Agronomy V</li> <li>• CSM, 2016 Action Plan - Strategies for enhancing quality and productivity of organic cotton.</li> <li>• Agricultural Entomology Action plan will be conducting during 2016.</li> <li>• AICCIP -TSP scheme activities.</li> <li>• Compilation of AICCIP report (Monthly, Quarterly, Half yearly and Annual).</li> </ul>
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**Cotton Research Station, Veppanthattai**

<b>Scientist and his/ her Designation</b>	<b>Present work load</b>	<b>Proposed work schedule during 2016-17</b>
<p>R. Kavimani Professor and Head</p>	<ol style="list-style-type: none"> <li>1. Coordinating the activities of Cotton Research Station, Veppanthattai.</li> <li>2. Research               <ul style="list-style-type: none"> <li>➤ Handling University Research Projects - 3 Nos. Cotton - 2, Maize -1</li> <li>➤ RPAC member</li> </ul> </li> <li>3. Teaching               <ul style="list-style-type: none"> <li>• Advisory committee member for one M.Sc (Ag) and two Ph.D students.</li> </ul> </li> <li>4. Extension               <ul style="list-style-type: none"> <li>• Scientist incharge for the Perambalur Block</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Coordinating the activities and infrastructure development of Cotton Research Station, Veppanthattai.</li> <li>2. Research               <ul style="list-style-type: none"> <li>• University Research Projects- 3 Nos. Cotton - 2, Maize - 1.</li> <li>• Externally Funded Scheme - TNCCM - Experiment on High Density Planting System of cotton.</li> <li>• Identified as Coordinating scientist for conducting the trial “Drought mitigation technology for rainfed cotton”.</li> <li>• Strategies for enhancing quality and productivity of organic cotton.</li> <li>• OFT - Fertilizer prescription under IPNS for cotton under drip fertigation.</li> </ul> </li> <li>3. Teaching Advisory committee member for 2 Ph.D students.</li> <li>4. Extension Scientist incharge for the Perambalur Block</li> </ol>

<p>S.Sivakumar Professor (PBG),</p>	<p><u>Station Research Objective</u></p> <p>Development of long staple and extra long staple Cotton varieties &amp; hybrids for winter rainfed cultivation.</p> <p><u>Theme Area - Scientist involvement</u></p> <p>“Long and extra long staple Cotton varieties”</p>	<p><b>1. Research - (85 % Time allocation)</b></p> <p><b>University Research Project - 2 Nos.</b></p> <ul style="list-style-type: none"> <li>• Development of high yielding long staple cotton varieties and hybrids for winter rainfed in Tamil Nadu.</li> <li>• Development of high yielding single cross maize hybrids for rainfed system in Tamil Nadu.</li> <li>• AICCIP - Voluntary center - No of trials -5 Nos.</li> </ul> <p><b>2. Teaching - Nil</b></p> <p><b>3. Extension (15 % Time allocation)</b></p> <ul style="list-style-type: none"> <li>• Scientist in charge for Veppanthattai Block, Perambalur District</li> <li>• Resource scientist for training programme on Cotton, Maize and general cultivation for all four blocks, organized by Dept. of Agriculture, Perambalur District</li> <li>• Farmer’s field visit to maize, cotton fields for various issues /problems.</li> <li>• Special trainings/ meeting, Zonal workshops District collector’s meetings, Grievance day meeting etc.</li> </ul>
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S.No	Activities details	June 16- Aug16	Sep16 - Nov16	Dec16- Feb17	Mar17- May17	No of days
1.	Preparation for sowing winter and summer season	0	5	5	0	10
2.	<b>Cotton:</b> F2 Evaluation in Summer and F3 in winter	17	12	11	9	49
3.	Evaluation of F1 in summer and F2 in winter	5	5	5	5	20
4.	Yield estimation of pipe line culture in summer and	2	2	2	2	8

	winter					
5.	Generation of new crosses	2	3	0	4	9
6.	Harvesting/ Data recording	6	2	6	3	17
7.	Ginning/ Analysis of fibre	-	2	2	-	4
8.	Data analysis	3	3	3	8	17
9.	Seed multiplication of promising lines/ cultures	2	2	2	2	8
10.	AICCIP trial - 5 Nos	1	7	7	5	20
11.	<b>Maize:</b> Generation of Inbreds /New F1	5	7	7	7	26
12.	Evaluation of hybrids	0	0	2	2	4
13.	Scientific meetings/ Reports	3	3	3	3	12
14.	<b>Extension</b> Scientist in charge	2	2	2	2	8
15.	Resource Scientist	2	2	2	2	8
16.	Farmer's field visit	3	3	3	3	12
	Special training/ meetings	2	2	2	2	8
		55	62	64	59	240
	<b>Research - (85 % Time allocation), Extension (15 % Time allocation)</b>					



<p>K. Bharathi Kumar Assistant Professor (PB&amp;G)</p>	<p><b>1.Research</b></p> <ul style="list-style-type: none"> <li>➤ Handling one University Research Project - Cotton</li> <li>➤ Principal Investigator -Tamil Nadu Cotton Cultivation Mission - TNAU Component - Scheme on “Development of compact genotypes in cotton (<i>G.hirsutum</i>)suitable for High Density Planting System and Mechanized harvest”</li> <li>➤</li> </ul> <p><b>2.Teaching -Nil</b></p> <p><b>3.Extension</b></p> <ul style="list-style-type: none"> <li>➤ Block Scientist incharge for the Veppur Block</li> </ul> <p><b>4.Additional Responsibilities</b></p> <ul style="list-style-type: none"> <li>➤ Farm Manager /Store and vehicle maintenance</li> <li>➤ Principal Investigator -Tamil Nadu Cotton Cultivation mission - TNAU Component - Scheme on “Development of compact genotypes in cotton (<i>G.hirsutum</i>)suitable for High Density Planting System and Mechanized harvest”</li> <li>➤ In charge for conducting Multi Location Trials allotted to CRS, Veppanthattai</li> <li>➤ Frontline Demonstration in Cotton and Maize</li> </ul>	<p><b>1.Research</b></p> <ul style="list-style-type: none"> <li>➤ University Research Projects- 1 No. Cotton -1</li> <li>➤ Externally Funded Scheme - TNCCM - Experiment on High Density Planting System of cotton. <ul style="list-style-type: none"> <li>○ Station Trial</li> <li>○ Large Scale Demonstration in Farmers field</li> </ul> </li> <li>➤ Evaluation of Bt Cotton Hybrids</li> <li>➤ Multilocation Trials</li> </ul> <p><b>2.Teaching- Nil</b></p> <p><b>3.Extension</b></p> <ul style="list-style-type: none"> <li>➤ Scientist incharge for the Veppur Block</li> </ul> <p><b>4.Additional Responsibilities :</b></p> <ul style="list-style-type: none"> <li>➤ Farm Manager</li> </ul>
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<p>K. Kalpana Assistant Professor (Plant Pathology)</p>	<p><b>1.Research</b></p> <ul style="list-style-type: none"> <li>• Handling two University Research Projects on Cotton</li> <li>• Research coordinator</li> <li>• Principal Investigator -VCS- MPBI – Mass production of bioinoculants</li> </ul> <p><b>2.Teaching- Nil</b></p> <p><b>3.Extension</b></p> <ul style="list-style-type: none"> <li>• Taskforce member for Alathur Block</li> <li>• Field visit to endemic pest and disease affected areas</li> <li>• Giving onfarm and offfarm plant advisory service</li> <li>• Member in polygreenhouse and onion storage structure inspection</li> </ul>	<p><b>1.Research</b></p> <ul style="list-style-type: none"> <li>• Two numbers of University Research Projects.</li> <li>• Research coordinator</li> <li>• Principal Investigator -VCS- MPBI – Mass production of bioinoculants</li> </ul> <p><b>2.Teaching- Nil</b></p> <p><b>3.Extension</b></p> <ul style="list-style-type: none"> <li>• Taskforce member for Alathur Block</li> <li>• Field visit to endemic pest and disease affected areas and pest disease monitoring</li> <li>• Giving onfarm and offfarm plant advisory service</li> <li>• Member in polygreenhouse and onion storage structure inspection</li> </ul>
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