PROCEEDINGS OF THE 35thCOTTON SCIENTISTS' MEET HELD ON 12.05.2017

Crop Scientists' Meet 2017 on Cotton was held on 12.05.2017 at TNAU, Coimbatore under the chairmanship of Dr. K. Ramasamy, Vice-Chancellor. On 11.05.2017 by 9.30 AM, prereview of the University Research Projects (URP) combining all the disciplines in cotton was taken up by Dr. M. Maheswaran, Director of Research at Centre for Plant Breeding and Genetics. The review was assisted by Dr. R. Ravi, Director, TRRI, Dr. B.J. Pandian, Director, WTC, Special Officers Dr. P. Selvaraju (Seeds) and Dr. D. Jawahar (NRM). The list of participants for the scientists' meet on cotton is appended.

The pre-review meeting began with an introduction by Dr. M. Maheswaran, Director of Research who narrated the experiences and the expectations of the University. Followed by that, individual project review was taken up. Considering the time and to avoid duplications, Dr. M. Kumar, Professor and Head, Department of Cotton was informed to make a presentation on the action taken on the recommendations made during the last meet, progress made under various themes and the action plan formulated for 2017-18 and accordingly the presentation was made. In his presentation, he highlighted the scenario of cotton in World, India and Tamil Nadu, action taken on the remarks made during the last year highlighting the stake holder's meet concluded, promotion of TCH 1819 compact culture for HDPS, works undertaken to promote superior medium staple cotton, introgression of genes from wild species and breeding works undertaken in diploid cotton improvement. Suggestions were made by the Director of Research and accordingly, modified presentation was made by him on 12.5.2017 before the Vice-Chancellor.

Similarly, Dr. N. Meyyazhagan, Professor and Head, CRS, Veppanthattai made a presentation on the progress of research made in the crop management discipline. Dr. K. Senguttuvan, Assistant Professor (Ag. Ento.) and Dr. P. Latha, Assistant Professor (Pl. Path.) made the presentations on the progress made under Agrl. Entomology and Plant Pathology respectively. All of them were suitably advised by the Director of Research to modify the presentations highlighting the themes and the actions taken accordingly.

On 12.5.2017, Dr. N. Sakthivel, Associate Professor (Agron.), Dr. K. Senguttuvan, Assistant Professor (Ento.) and Dr. R. Vimala, Professor (Pl. Path.) made the presentations.

Observations made by the Vice-Chancellor during the presentations were

- 1. Research towards increasing cotton lint yield *per se* and as suggested by Dr. V. Santhanam, concentration should be given to breed varieties with more Ginning outturn (All cotton scientists)
- 2. Assessing the area suitability for cultivating the diploid and tetraploid species in Tamil Nadu (CARDS)
- 3. Targeted approach by involving private seed sector for on sharing basis for producing quality seeds (All cotton scientists)

- 4. Interacting with SITRA officials for understanding the need and demand of cotton (Department of Cotton)
- 5. Breeding programme for evolving cotton genotypes for 120 counts and advancing the selection process if cultures are found fitting (Department of Cotton)
- 6. Utilizing wild species by grafting (Department of Cotton)
- 7. Using newer varieties / advanced stage entries like CO 14 /TCH 1819 in FLDs /TSP (All cotton scientists)
- 8. Tissue culture works with the transformation friendly cotton varieties Coker 310 and 312 using the native Bt gene Cry2AX1 to be undertaken by Dr. V. Thiruvengadam, Assistant Professor under the guidance of Dr. P. Amala Balu, Professor (PBG) using the facilities available in CPBG and CPMB (Dr. V. Thiruvengadam, Assistant Professor, PGR)

Proceedings of the 35th Cotton Scientists' Meet are presented in the following order.

- 1) Staff Pattern
- 2) Remarks on the individual University Research Projects
- 3) Decisions made on entries for Variety Release/ART/MLT evaluation from breeders and OFTs from Crop Management and Crop Protection Scientists
- 4) Action Plan: 2017-2019

1. Staff Pattern

| G: | 5 | Discipline | | | | |
|----------------|-----------------|-------------|-----------|-----------|-----------|---------|
| Station | Designation | PBG | AGR | ENT | PAT | Total |
| Coimbatore | Professor | 2+1 (AICRP) | 1 | - | 1 | 7 |
| | Assc. Professor | - | 1 (AICRP) | - | ı | (3 + 4) |
| | Asst. Professor | 1 | - | 1 (AICRP) | 1 (AICRP) | |
| Srivilliputhur | Professor | 1 | - | - | 1 (PCC) | 6 |
| | Asst. Professor | 2 (AICRP) | 1 (AICRP) | 1 (AICRP) | 1 | (2 + 4) |
| Veppanthattai | Professor | 1 | 1 | - | 1 | 3 |
| | Asst. Professor | 1 | - | - | - | |
| Kovilpatti | Asst. Professor | 1 | - | - | - | 1 |
| | Total | 10 | 3 | 2 | 2 | 17 |

Among the 17 scientists, 9 are in Non-Plan Main and 8 are under ICAR AICRP; Under 9 Non Plan Main scientists, 3 are Professor and Heads and one is in PCC; For Jute and Mesta, one Assistant Professor each under PBG and Agronomy are working in the AICRP on Jute and Mesta at Aduthurai.

2. Remarks on the ongoing University Research Projects

Plant Breeding and Genetics

| S. No. | Project Number | Remarks |
|--------|--|--|
| 1. | CPBG/CBE/PBG/COT/2012/004 Dr. N. Premalatha Development of compact cotton (G.hirsutum L.) genotypes for high density planting system | Strengthened breeding programme be undertaken with evaluated parents targeting the trait. The contributory traits for developing a compact genotype be listed and the variability for such traits available in the germplasm be surveyed. Project period be extended for one more year coinciding with the completion of TNCCM project. |
| 2. | CPBG/CBE/PBG/COT/2014/005 Dr.M. Kumar Breeding for high yielding long and extra long staple <i>G.hirsutum</i> and <i>G.barbadense</i> cotton varieties suitable for high speed spinning. | The project period is over and the completion report be submitted. A new project on evolving genotypes with higher ginning outturn with good fibre qualities be proposed. Concentrated research is to be undertaken in the evaluation of colored cotton genotypes, Bt advanced generation population evaluation and on the generation of CMS and restorer lines and their management. |
| 3. | CPBG/CBE/PBG/COT/2016/001 Dr. N. Premalatha Maintenance and evaluation of germplasm stocks of <i>G.barbadense</i> and <i>G.hirsutum</i> | Along with the scoring data of the plant protection scientists, the data should be documented and made available to the Department of PGR. Remaining germplasm be characterized and documented. |
| 4. | CPBG/ CBE/ PBG/ COT/ 2016/002 Dr. L. Mahalingam Development of high yielding jassid resistant cotton varieties by introgression of genes from wild species | Leaf hopper tolerance in the parents and hybrids be assessed. Among the four sets of crosses initiated, crosses being taken up with diploid species have been treated with colchicine for doubling. Necessity to involve KC 3, K 11 be justified as they have leaf hopper resistance. Qualities to be infused using wild parents be documented. As suggested, cuttings of cernuum and wild species and grafting using wild species as root stock be tried. |

CPBG/ CBE/ PBG/ COT/ 2016/003 Dr. L. Mahalingam Maintenance and production of nucleus and breeder seeds of cotton varieties of Department of

Quality of seeds should be ensured. Seed production can be concentrated in the newly released varieties. As suggested, seeds of newer varieties / advanced cultures be given under FLD / TSP for their popularization.

6. CPBG/SVP/PBG/COT/2016/001 Dr. K. Thiyagu

Cotton, Coimbatore

Evolution of short duration and high yielding cotton (*Gossypium hirsutum* L.) genotypes suitable for rice fallow and rainfed conditions of southern districts of Tamil Nadu

Advanced stage entries available at Department of Cotton under compact cotton development project be test verified for its suitability under rice fallow situation. Parents for the new crosses be assessed for its compactness and genetics of compactness be investigated.

7. CPBG/SVP/PBG/COT/2016/002 Dr.M.Gnanasekaran

Evolving high yielding medium staple upland cotton varieties (Gossypium hirsutum L.) resistant to jassids for summer irrigated tracts of Tamil Nadu

Materials found better under this project as well under the introgression project being run at Coimbatore be cross evaluated for verifying its worthiness against leaf hoppers. Leaf hopper resistant materials identified at both the locations be pushed into MLT.

8. CPBG/SVP/PBG/COT/2015/004 Dr. K. Thiyagu

Maintenance of mass pedigree lines and production of nucleus and breeder seeds of SVPR 2, SVPR 3 and SVPR 4 cotton varieties

Quality of seeds should be ensured. Seed production can be concentrated in the newly released varieties. As suggested, seeds of newer varieties / advanced cultures be given under FLD / TSP for their popularization.

9. CPBG/VPT/PBG/COT/2015/001 Dr. K.Bharathi Kumar

Evolution of compact, drought tolerant and long staple cotton genotypes (*G.hirsutum*) suitable for winter rainfed tracts of north western zone of Tamil Nadu

undertaken Project work be coordination with the works undertaken at Coimbatore and Srivilliputhur on similar performing line. Better compact genotypes identified at Coimbatore and Srivilliputhur along with the segregating materials be evaluated for its suitability under winter rainfed situation Veppanthattai.

10. CPBG/VPT/PBG/COT/2016/002 Dr. S. Sivakumar

Development of high yielding long staple cotton varieties and hybrids for winter rainfed in Tamil Nadu Zero monopodial lines be followed for their yield, suitability for rainfed cultivation and fibre quality. Excessive handling of segregating generations be avoided and the crosses be initiated with specific purpose after assessing the traits

| | | of parents. |
|-----|--|--|
| 11. | CPBG/KPT/PBG/COT/2015/006 Dr. S. Hari Ramakrishnan Evolving medium staple G.hirsutum cotton cultivar with resistance to leaf hopper (Jassids). | The works to be undertaken in this project be in line with the similar works undertaken at Coimbatore and Srivilliputhur with the ultimate aim of breeding a genotype with leaf hopper tolerance and yield. Upon completion of the project, the materials can be handed over to CRS, SVPR and Kovilpatti centre concentrate only on diploid cotton. |
| 12. | CPBG/KPT/PBG/COT/2015/007 Dr. S. Hari Ramakrishnan Evolution of high yielding G.arboreum cotton varieties suitable for rainfed condition in southern districts of Tamil Nadu | Kovilpatti is the only centre concentrating on diploid cotton genotypes. The deposition of diploid germplasm materials be completed in a month's time. Resistant / tolerant segregating materials for stem weevil, if identified be spared to Coimbatore and Srivilliputhur centres for evaluation. Concentration should be much on developing cotton genotypes suitable for surgical purposes with more mic. and absorption capacity. |
| 13. | TNCCM/CPBG/CBE/COT/ 2015/R002 (Centres: Srivilluputhur, Coimbatore, Kovilpatti and Veppanthattai) Development of compact genotypes in cotton (<i>G. hirsutum</i>) suitable for high density planting system and mechanized harvest | Objectives to be executed in accordance with the projects being run at Coimbatore (2012/004), Srivilliputhur (2016/001) and Veppanthattai (2015/001). Large scale demonstrations with proven genotypes be taken up. All the committed objectives are to be completed before March 2018. Involving agronomist, entomologist and pathologist, FLDs / field days can be conducted at identified locations in rice fallow area. |

<u>Decisions made on entries for Variety Release/ART/MLT evaluation from breeders and OFTs from Crop Management and Crop Protection Scientists</u>

A. CROP IMPROVEMENT

I. Culture proposed for National release for Central Zone

Culture Name: TCH 1777(G. hirsutum)

Centre : Department of Cotton, TNAU, Coimbatore

Parentage : (MCU12 x LRA 5166) x TCH 1569

Duration: 150 days

| Yield/ quality traits | TCH 1777 | Local check | Zonal check |
|---------------------------|-------------|----------------|----------------|
| Seed cotton yield (kg/ha) | 2036.36 | 1693.36 | 1522.36 |
| Ginning outturn (%) | 34.57 | 34.57 | 35.27 |
| Fibre length (mm) (UHML) | 30.53 | 27.10 | 25.43 |
| Fibre strength (g/tex) | 24.47 | 25.37 | 23.23 |
| Micronaire value | 4.37 | 4.63 | 4.97 |

| Increase over LC | 20.09 % |
|----------------------------|---------|
| Increase over ZC (CNHO 12) | 33.28% |

II. Culture proposed for National release for South Zone

Culture Name: TSH 04/115 (G. hirsutum)

Centre : Cotton Research Station, Srivilliputtur

Parentage : SVPR 2 x BJA 592 Duration : 150-155 days

| Yield/ quality traits | TSH 04/115 | Local check SVPR 4 | Zonal check Suraj |
|---------------------------|------------|-----------------------|-------------------------|
| Seed cotton yield (kg/ha) | 2312 | 2080 | 2049 |
| Ginning outturn (%) | 33.4 | 33.7 | 35.9 |
| Fibre length (mm) (UHML) | 29.5 | 28.3 | 30.9 |
| Fibre strength (g/tex) | 27.3 | 28.7 | 30.8 |
| Micronaire value | 4.0 | 4.1 | 3.9 |

| Increase over LC | 11.2 % |
|--------------------------|--------|
| Increase over ZC (Suraj) | 12.8% |

Both these cultures were accepted for release at National level during the Annual Group Meet on Cotton held at TNAU, Coimbatore during 8-10 April, 2017.

III. Cultures identified for evaluation under ART - I (compact) – 2017-18

| Compact Cultures | Winter Irrigated | Summer Irrigated | Winter Rainfed | Rice fallow |
|--|--|---|--|--|
| 1.TCH 1819 2.TCH 1822 3.TKH 1185/I/3 4. Suraj (C) 5. KC 3 (C) | Coimbatore, Theni, Salem, Dharmapuri, Erode, Villupuram, Namakkal, Tirupur and Dindigul | Tuticorin, Virudhunagar, Tirunelveli, | Tuticorin , Virudhunagar, Tirunelveli, Ramanadhapuram, Madurai and Perambalur | Thanjavur, Tiruvarur Nagapattinum Tirunelveli |
| Number of | Season: August 17- Jan 18 | Season: Feb 18 – July 18 | Season: Sept 17 – Feb 18 20 | Season: Feb 18 – July 18 |
| ARTs Scientist incharge | Dr.N.Premalatha | Dr.K.Thiyagu | Dr.S. Hariramakrishnan and Dr. K. Bharathi Kumar | Dr. R. Pushpa |

Traits to be observed

- 1. Days to 50% flowering
- 2. Days to first bursting
- 3. No. of bolls/ Sq. m.
- 4. Seed cotton yield @ 120 days
- 5. Total seed cotton yield kg/ha.

ART II: G. hirsutum (variety) (ART 2/2017 - 18)

| Culture | Summer Irrigated (10) | Winter Irrigated (10) | |
|----------------|--|--|--|
| 1.TSH 0533 | Theni, Salem, Tuticorin, | Coimbatore, Theni, Salem, | |
| 2.SVPR 2 (C) | Virudhunagar, Tirunelveli, Madurai, | Dharmapuri, Perambalur, Erode, | |
| 3.SVPR 4 (C) | Dindigul, Thanjavur, Trichy and Tiruvarur | Villupuram, Namakkal, Tirupur and Dindigul | |
| 4.Surabhi (C) | Season: Feb 2018 – July 2018 | Season: August 2018– Jan-2019 | |
| Number of ARTs | 30 | 30 | |
| Number of ARTS | (Three locations/District) | (Three locations/District) | |
| Scientist | Dr.M.Gnanasekaran | Dr. N. Premalatha | |
| incharge | | Dr.K.Thiyagu | |

III. Cultures identified for the evaluation under Multilocation Trial -2017-18

1. Multilocation Trial G.hirsutum (variety)

Design : RBD No. of replications : Three

No. of rows : Six Spacing : 90 x 45 cm

Seed qty : 200 g / entry/location

| Culture | Locations | Season |
|--------------------|--------------------------|----------------------|
| TVH 001 (New) | Coimbatore | August – January |
| TSH 325 (New) | (Both winter and summer) | February-July |
| TSH 332 (New) | Srivilliputtur | August – January |
| TCH 1199 (R) | (Both winter and summer) | February-July |
| TCH 1828 (R) | Veppanthattai | August – January |
| TCH 1837 (R) | (winter) | |
| TSH 0324(R) | Kovilpatti | September - February |
| TSH 0327(R) | (winter) | |
| TKH 1197 III/2 (R) | | |
| CO 14 (C) | | |
| MCU 13 (C) | | |
| SVPR 4 (C) | | |
| KC 3 (C) | | |

2. Multilocation Trial G.hirsutum (compact)

Design : RBD No. of replications : Three

No. of rows : Six Spacing : 60 x 15 cm

Seed qty : 300 g/entry/location

| Culture | Locations | Season |
|---------------|--------------------------|----------------------|
| TSH 330 (New) | Coimbatore | August – January |
| TCH 1873 (R) | (Both winter and summer) | February-July |
| TCH 1875 (R) | Srivilliputtur | August – January |
| TCH 1897(R) | (Both winter and summer) | February-July |
| SURAJ (C) | Veppanthattai (winter) | August – January |
| | Kovilpatti (winter) | September - February |

Features of the repeating cultures

| S. No. | Culture | Yield (kg/ha) | Yield increase over check (%) | 2.5% span length (mm) | Bundle strength (g/ tex) |
|-----------|--------------------|------------------|----------------------------------|--------------------------|-----------------------------|
| 1. | TSH 330 (N) | 1865 | 19.5 (SVPR 4) | 29.4 | 24.6 |
| 2. | TVH 001 (N) | 2087 | 23.6 (KC3) | 29.3 | 24.2 |
| 3. | TSH 325 (N) | 1963 | 25.7 (SVPR 4) | 27.6 | 18.9 |
| 4. | TSH 332 (N) | 1806 | 15.7 (SVPR 4) | 27.5 | 23.3 |
| 5. | TCH 1873 (R) | 2031 | 9.0 | 27.6 | 20.4 |
| 6. | TCH 1875 (R) | 2041 | 9.6 | 27.9 | 20.3 |
| 7. | TCH 1897 (R) | 2027 | 8.8 | 27.0 | 20.2 |
| 8. | TCH 1199 (R) | 1533 | 17.5 (Suraj) | 27.3 | 20.1 |
| 9. | TCH 1828 (R) | 1781 | 6.2 (Suraj) | 32.9 | 24.5 |
| 10. | TCH 1837(R) | 1835 | 9.5 (Suraj) | 33.1 | 24.0 |
| 11. | TSH 0324 (R) | 1938 | 29.7 (SVPR 4) | 28.3 | 22.3 |
| 12. | TSH 0327 (R) | 2063 | 28.9 (SVPR 4) | 28.5 | 22.0 |
| 13. | TKH 1197 III/2 (R) | 1925 | 26.4 (SVPR 2) | 29.7 | 22.7 |

Traits to be observed:

- 1. Days to 50% flowering
- 2. Days to first bursting
- 3. No. of bolls/ Sq. m.
- 4. Seed cotton yield @ 130 days
- 5. Total seed cotton yield kg/ha.

3. Multilocation Trial G.barbadense (variety)

Design : RBD No. of replications : Seven No. of rows : Four Spacing : 90 x 45 cm

Seed qty : 100 g/entry/location

| | Culture | Locations | Season |
|----|---------|----------------|------------------------|
| 1. | TCB 37 | Coimbatore | August 17– January 18 |
| 2. | TCB 26 | Srivilliputtur | August 17 – January 18 |
| 3. | Suvin | Veppanthattai | August 17 – January 18 |

Features of the proposed cultures

| S. No. | Culture | Yield (kg/ha) | Yield increase over check (%) | GOT (%) | 2.5% span length (mm) | Bundle strength (g/ tex) |
|-----------|---------|------------------|-------------------------------------|------------|-----------------------------|--------------------------------|
| 1 | TCB 37 | 650 | 35.4 | 32.0 | 34.5 | 25.9 |
| 2 | TCB 26 | 720 | 50.0 | 31.9 | 35.2 | 24.7 |
| 3 | Suvin | 480 | | 30.8 | 34.7 | 24.6 |

Important Dates in conduction of MLT & ART

| 15.06.2017 | |
|----------------------|--|
| 30.06.2017 | |
| | |
| 15.09.2017 | |
| 15.02.2018 | |
| 15.10.2017 | |
| 15.02.2018 | |
| | |
| Nov. 2017 & May 2018 | |
| Nov. 2017 & May 2018 | |
| Dec. 2017 | |
| Dec. 2017 | |
| | |
| November 2017 | |
| April 2018 | |
| December 2017 | |
| April 2018 | |
| | |
| 31.03.2018 | |
| 31.07.2018 | |
| 15.04.2018 | |
| 31.05.2018 | |
| | |

Monitoring team to visit MLT

| Name of the scientist | Station to be visited |
|-----------------------|-----------------------|
| Dr. M. Gunasekaran | Coimbatore |
| Dr. S. Sivakumar | |
| Dr. P. Amala Balu | Veppanthattai |
| Dr. N. Premalatha | |
| Dr. M. Kumar | Srivilliputtur |
| Dr. K. Bharathi kumar | |
| Dr. L. Mahalingam | Kovilpatti |
| Dr. M. Gnanasekaran | |

CROP IMPROVEMENT

Action plan for 2017-2019 on the identified themes

| Theme No. 1 | | Charact | Characterization of genotypes | | | | | | |
|--------------|--|-------------------------------|---|--|--|--|--|--|--|
| Theme Leader | | Dr. L. M | Dr. L. Mahalingam, Professor (PBG) | | | | | | |
| Projec | ts | 1. CPBG/ | 1. CPBG/ CBE/ PBG/ COT/ 2016/002 2. CPBG/CBE/PBG/COT/2016/001 3. CPBG/ CBE/ PBG/ COT/ 2016/003 | | | | | | |
| | | •- | Name of the scientist | Year 2017-18 | Year 2018-19 | Deliverables/ expected out come | | | |
| S.No | Activ | vity | and centre | Winter 2017 | Winter 2018 | | | | |
| 1. | Pre k materials developm and utiliz wild relat exploiting | nent ation of tives for | Dr. L. Mahalingam, Prof. (PBG) (Man hours: Dr. L.M – 15 /week; Dr. K. S – 6 / week; Dr. P.L – 6 / week) | Raising of F ₁ / F ₂ population and selection of desirable segregants. Evaluation of amphiploids. Quality studies and pest and diseases screening of entries to be done by Dr. K. Senguttuvan and Dr. P. Latha | Forwarding of F ₂ - F ₃ generation based on yield, fibre properties and pest and disease resistance. Utilizing the segregating materials obtained from amphiploids for evaluation/ crossing. | infusing pest and disease resistance | | | |
| 2 | Evaluation, characterization and documentation of cotton germplasm | | Dr. N.Premalatha, AP (PBG) (Man hours: Dr. N. P – 10 / week) | 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 | Preparation of a document on 1000 <i>G. hirsutum</i> and 160 <i>G.barbadense</i> germplasm Making the key traits of available germplasm on line Raising crossing blocks with selected parents for needed trait's improvement | | | |

| Theme No. 2 | | Develo | Developing long and extra long staple cotton varieties | | | | | | |
|-----------------------|---|-------------------------|--|--|--|--|--|--|--|
| Theme Leader Dr. M. H | | Kumar, Professor and | Head (PBG), Dept. of Cotton, TN | IAU, Coimbatore | | | | | |
| | | | /CBE/PBG/COT/2014/0 | 05 2. CPBG/VPT/PBG/COT/ | 2016/002 | | | | |
| | | | Name of the | Year 2017-18 | Year 2018-19 | Deliverables/ expected out | | | |
| S.No | Activit | ;y | scientist and centre | Winter 2017 | Winter 2018 | come | | | |
| 1 | Evaluation segregating materials | of | Dr. M. Kumar, Professor (PBG) (Man hours: Dr. M. K – 10 / week) Dr. S. Sivakumar, | Evaluation of segregating materials (F₂s) and selection of superior segregants for extra long fibre length and fibre strength. Forwardal of identified recombinants. | Evaluation of segregating materials (F₃s) and selection of superior segregants (F₃s) for extra long fibre length and fibre strength. Quality evaluation and forwardal recombinants. | Comparative evaluation of G. hirsutum x G. barbadense and G.hirsutum x G. hirsutum progenies for fibre quality parameters. Identifying superior recombinants. | | | |
| | | | Professor (PBG) (Man hours: Dr. S.S – 10 /week) | Observations on zero monopodia types | Torwardai recombinants. | recombinants. | | | |
| 2. | Identification promising of and evaluation station trials | cultures yield at | Dr. M. Kumar, Professor (PBG) Dr. S. Sivakumar, Professor (PBG) (Man hours: Dr. M. K – 10 / week; Dr. S. S – 5 / week) | Study of different yield trials (PVT and AVT) Yield estimation of pipe line cultures in summer and winter | Seed production of promising cultures identified in AVT Yield estimation of pipe line cultures in summer and winter | Identifying promising recombinants. | | | |

| 3. | Screening of advanced culture for pest and diseases | Dr.K.Senguttuvan Asst. Prof. (Ento) Dr.P. Latha, Asst. Professor (Patho) (Man hours: Dr. K.S – 6 /week; Dr. P.L – 6 / week) | 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 |
|----|--|---|---|--|--|
| 4. | Advancement of promising entries to MLT/AICCIP | · | 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. N. Sakthivel, Assoc. Professor Dr. M. Kumar, Professor (PBG) (Man hours: Dr. M.K – 1 /week; Dr. N. S – 10 / week) | Promoting CO 14, TCH 1819 and other identified cultures in advanced stage of testing through FLDs | Promoting CO 14, TCH 1819 and other identified cultures in advanced stage of testing through FLDs | Popularization of CO 14 and compact genotype. Understanding the requirements of farmers |

| Theme No. 3 | Peme No. 3 Development of high yielding medium staple cotton varieties (<i>G.hirsutum</i> L.) resistant to leaf hopper | | | | |
|--------------|---|--|--|--|--|
| Theme Leader | r Dr.M.Gnanasekaran, Assistant Professor (PBG), Cotton Research Station, Srivilliputtur | | | | |
| Projects | 1. CPBG/SVP/PBG/COT/2016/002 2. CPBG/SVP/PBG/COT/2015/004 | | | | |

| S. | Activity | Name of the scientist | Year 20 | 17-18 | Year 20 |)18-19 | Deliverables/ |
|----|----------------|-----------------------|--|-------------------|----------------------------|----------------|---------------------|
| No | Activity | and centre | Summer 2017 | Winter 2017 | Summer 2018 | Winter 2018 | expected out come |
| 1 | Synthesizing | Dr.M.Gnanasekaran, | Studying | Effecting | Study of | Forwardal of | Newer crosses |
| | new crosses | Asst. Prof. (PBG) | segregating | crossing among | segregating | progenies | synthesized for |
| | and | (Man hours: 5 /week) | materials (F ₂ s, F ₃ s, | the high yielding | materials (F₂s, | | getting desirable |
| | evaluation of | | F_4s , F_5s) and | and leaf hopper | F_3s , F_4s , F_5s) | | recombinants. |
| | segregating | | Evaluation of F ₁ s | resistant donors | | | |
| | materials | | | | | | |
| 2. | Identification | Dr.M.Gnanasekaran, | Studying the | Seed production | Studying | Seed | Identifying |
| | of promising | Asst. Prof. (PBG) | performance of | of promising | different yield | production | desirable entries |
| | cultures and | (Man hours: 5 /week) | identified cultures | cultures | trials (RRYT, | of promising | with yield and leaf |
| | yield | | in different yield | identified in | PVT, and AVT) | cultures | hopper tolerance. |
| | evaluation at | | trials (RRYT, PVT, | AVT. | | identified in | |
| | station trials | | and AVT) | Artificial | | AVT Artificial | |
| | | | | screening of | | screening of | |
| | | | | advanced | | advanced | |
| | | | | cultures against | | cultures | |
| | | | | jassids | | against | |
| | | | | | | jassids | |

| 2 | | D 1/ C 1 | | A . · · C · · · I | | A C | 0 (; ; , , , |
|----|---------------|-----------------------------|------------------|-------------------|---------------|----------------|----------------------|
| 3. | Screening of | · | - | Artificial | - | Artificial | Confirming the |
| | advanced | Asst. Prof. (Ento) | | screening of | | screening of | tolerance / |
| | culture for | (5 man hours / week) | | advanced elite | | advanced | resistance of better |
| | pest and | Dr.R.Vimala, | | cultures for | | elite cultures | performing entires. |
| | diseases | Professor (Patho) | | pest & | | for pest & | |
| | | (5 man hours / week) | | diseases | | diseases | |
| 4. | Advancement | SVPR: Dr.M.Gnanasekaran, | MLT-Summer | MLT-Winter | MLT-Summer | MLT-Winter | Identifying |
| | of promising | Asst. Prof. (PBG) | irrigated at CBE | irrigated at | irrigated at | irrigated at | promising |
| | entries to | (5 man hours / week) | and SVPR | CBE and SVPR | CBE and SVPR | CBE and | genotypes. |
| | MLT/AICCIP | CBE: Dr. N. Premalatha, | | MLT-Winter | | SVPR | |
| | | Asst. Prof. (PBG) | | rainfed at VPT | | MLT-Winter | |
| | | (8 man hours / week) | | and KPT | | rainfed at | |
| | | VPT: Dr.K.Bharathikumar, | | | | VPT and KPT | |
| | | Asst. Prof. (PBG) | | | | | |
| | | (8 man hours / week) | | | | | |
| | | KPT: Dr.S.Hariramakrishnan, | | | | | |
| | | Asst. Prof. (PBG) | | | | | |
| | | (5 man hours / week) | | | | | |
| 5. | Conducting | SVPR: Dr. M.Gnanasekaran, | Evaluation of | Evaluation of | Evaluation of | Evaluation of | Release of |
| | ART and | Asst. Prof. (PBG) | TSH 04/115 | TSH 04/115 | TSH 0533 | TSH 0533 | promising |
| | Submission of | (5 man hours / week) | | | through ART | through ART | genotypes at |
| | release | | | | | | National and State |
| | proposal | | | | | | level. |

| Then | ne No. 4 Development of compact and short duration cotton genotypes (<i>G. hirsutum</i>) suitable for HDPS and rice fallow | | | | | | |
|---|--|--------------|----------------------------------|----------------------|---------------|--------------|----|
| Then | Theme Leader M. Gunasekaran, Professor and Head, CRS, Srivilliputtur | | | | | | |
| Projects 1. CPBG/CBE/PBG/COT/2012/004 2. CPBG/SVP/PBG/COT/2016/001 3. CPBG/VPT/PBG/COT/2015/001 4. TNCCM/CPBG/CBE/COT/ 2015/R002 | | | | | | | |
| S. No. | Name of | the Activity | Name of the scientist and centre | Year 2017-18 | Year 2018-19 | Deliverables | |
| 1 | Evaluation | of advanced | CRE: Dr N Promalatha | Evaluation and short | Evaluation of | Submission | οf |

| S. No. | Name of the Activity | Name of the scientist and centre | Year 2017-18 | Year 2018-19 | Deliverables |
|-----------|----------------------------|------------------------------------|--------------------------|------------------------|------------------|
| 1 | Evaluation of advanced | CBE: Dr. N. Premalatha, | Evaluation and short | Evaluation of | Submission of |
| | breeding lines to identify | Asst. Prof. (PBG) | listing of genotypes for | promising genotypes in | varietal |
| | stable genotypes under | (5 man hours / week) | MLT/ ART | ART/ submission of | identification |
| | rainfed and irrigated | SVPR: Dr. M. Gunasekaran, | | release proposal | proposal for the |
| | conditions | P&H (10 man hours / week) | | | elite culture |
| | | Dr. K. Thiyagu, AP (PBG) | | | |
| | | (5 man hours / week) | | | |
| | | VPT: Dr. K. Bharathikumar, AP(PBG) | | | |
| | | (8 man hours / week) | | | |
| | | KPT: Dr. S. Hari Ramakrishnan, | | | |
| | | Asst. Prof. (PBG) | | | |
| | | (8 man hours / week) | | | |

| 2 | Selection of genotypes and synthesizing new cross | SVPR: Dr.K. Thiyagu, Asst. Prof. (PBG) (10 man hours / week) | Synthesizing new crosses using 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) (10 man hours / week) | segregating materials (F ₂ s) and selection of superior segregants with 135 days | Selection in the segregating materials (F ₃ s) for superior segregants with earliness | Identifying desirable recombinants |
| 3 | Optimization of spacing and fertilizer requirement for TCH 1819 and other compact cultures under HDPS | SVPR: Dr. R. Veeraputhiran, Asst. Prof. (Agron) (10 man hours / week) CBE: Dr. N. Sakthivel, Assoc. Prof. (Agon.) (10 man hours / week) VPT: Dr. N. Meyyazhagan, Professor (AGR) (10 man hours / week) | Large scale demonstration of identified genotypes; Arriving at package of practices for TCH 1819 under HDPS | Standardizing suitable spacing, fertilizer and including it is package of practices for the advanced cultures | Standardizing agronomic package of practices |
| 4 | Developing suitable Integrated Pest and Disease Management (IPDM) module for HDPS | SVPR: Dr. K. Sasikumar, Asst. Prof. (Ento) (5 man hours / week) Dr. R. Vimala, Prof. (Patho) (5 man hours /week) | Confirmation experiment on IPDM under HDPS | Large scale demonstration of IPDM on HDPS | Arriving at suitable IPDM for HDPS |

| 5 | Management of plant geometry through growth retardants under HDPS | SVPR: Dr. R. Veeraputhiran, Asst. Prof. (Agron) (5 man hours / week) VPT: Dr. N. Meyyazhagan, Professor (AGR) (10 man hours / week) | Field experiment using growth retardant (Confirmation study) | Large scale field demonstration | Arriving at suitable dose for adoption |
|---|--|---|---|---|---|
| 6 | 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) (5 man hours / week for each scientist) | Large scale demonstration of TCH 1819 in the farmers' field | Large scale demonstration of TCH 1819 in the farmers' field | Creating confidence among the farmers about the culture and its cultivation. |
| 7 | Demonstration of implements and machinery for mechanized cultivation | Scientists from AMRC (to be identified by the Professor and Head; 8-10 man hours /week) | 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 |

| Them | ne No. 5 | Develo | Development of diploid cotton (G. arboretum) with high yield and fibre length as well as suitable for surgical purpose | | | | |
|-----------|---|---|--|---|---|--------------|--|
| Them | ne Leader | Dr.S. Hari Ramakrishnan, Assistant Professor, ARS, Kovilpatti | | | | | |
| Proje | cts | CPBG/ | /KPT/PBG/COT/2015/007 | | | | |
| S. No. | Name of Activi | | Name of the scientist and centre | Year 2017-18 | Year 2018-19 | Deliverables | |
| 1 | Selection genotypes synthesizin new cross evaluation segregatin materials | ng of and of | Ramakrishnan, Asst. Prof. (PBG) | Selection of <i>G. arboreum</i> genotypes with high micronaire value and effecting crosses among the selected genotypes | Evaluation of F ₁ s and selection of superior F ₁ s towards higher micronaire value for further studies | , , | |

CROP MANAGEMENT

1. Action Taken on Action Plan proposed during 34th CSM on cotton, 2016

| l. No. | Project No. and Title | Scientists incharge | Duration | Remarks |
|--------|--|---|----------------------------|--|
| Action | plan project (2016-2019) | | | |
| 1 | DCM/ KPT/ AGR/ COT/ 2016/ 001 Effect of drought mitigation technology on growth and yield of rainfed cotton (with supplemental irrigation) (August, 2016 - July 2019) | CRS, Veppanthattai (Coordinating Centre): Dr. N. Meyyazhagan,Prof. & Head (Agron.) Dr. S. Nithila (CRP), ADAC&RI, Trichy Dr. T. Eevera, (SST), ADAC&RI, Trichy ARS, Kovilpatti Dr. M. Joseph, Asst. Prof (Agronomy) Dr. C. Rajababu (CRP), AC&RI, Killikulam Dr. B. Venu Devan, (SST), AC&RI, Killikulam | August 2016 - July 2019 | The project is to be continued |
| 2 | SEED / CBE/ SST/ COT/ 2016/ 001 Polymer seed coat for cotton 'TNAU FORTI Seed' | Dr. R. Umarani, Professor and Head, SST Dr. Subbalakshmi Lokanadhan, Professor (Agronomy) Dr. R.G. Anitha, Asst. Prof. (Agrl. Microbiology) | June 2016-May 2019 | The project is to be continued Polymer I and II has to be changed as formulations Yield data to be derived |

| | University Research Projects (2016 | i-17) | | |
|---|---|--|-----------------------------|--|
| 1 | DCM/SVPR/AGR/COT/2016/001 Management of plant density and architecture under high density planting system(HDPS)for mechanized cotton production | Dr.ChelviRamessh*, Assistant Professor (Agronomy), CRS, Srivilliputtur Dr. M.Gunasekaran, Prof. (PBG) & Head, CRS, Srivilliputtur | July, 2016 to June, 2018 | The project to be continued *In-lieu of the transfer of the existing Scientist, alternate scientist may be identified and approval may be obtained from the Director of Research, TNAU, Coimbatore (Action: Prof. & Head, CRS, Srivilliputhur) |
| 2 | DCM/VPT/AGR/COT/2015/003 Study on intercropping in rainfed cotton | Dr. N. Meyyazhagan, CRS, Veppanthattai | August 2015 to July 2017 | The project may be closed and completion report may be submitted. Findings may be taken as On Farm Trial at Veppanthattai and Kovilpatti |
| | On Farm Trials (Proposed during C | SM 2016) | | |
| 1 | Integrated Weed Management in cotton | Dr. R. Veeraputhiran AP (Agron.), CRS, Srivilliputhur Dr. R. Jeyasrinivas AP (Agron.), ARS, Vaigaidam Dr. AnittaFanish AP (Agron.), AC & RI, Madurai | 2016-17 | OFT conducted only at CRS, Srivilliputtur during 2016-17. To be continued for one more year at CRS, Srivilliputhur, ARS, Vaigai Dam and Department of Agronomy, AC & RI, Madurai |

| | Proposal for Action plan (Propose | d during CSM, 2017) | | |
|---|--|---|---------|---|
| 2 | Fertilizer prescription under IPNS for cotton under drip fertigation | Dr. R. Shanthi Professor (SS&AC), TNAU, Coimbatore | 2016-17 | Recommended for Adoption • Fertiliser prescription under IPNS for cotton under drip fertigation may be recommended for adoption |
| | Proposal for OFT (Proposed during | ; CSM, 2017) | | |
| 1 | Study on intercropping in rainfed cotton | Centres CRS, Veppanthattai Dr. N. Meyyazhagan, Professor and Head ARS, Kovilpatti | 2017-18 | Treatment details: T1: Cotton T2: Cotton + Onion (Additive series) T3. Cotton + Amaranthus (Additive series) |
| | | Dr. M. Joseph, Asst. Prof (Agronomy) | | Observations to be recorded: a) No. of monopodial and symbodial branches b) Intercrop yield c) Yield components and yield d) Cotton Equivalent yield e) Land Equivalent Ratio (LER) f) Economics |

CROP PROTECTION

The following scientists attended in the Review Meeting of Crop Scientists Meet on Cotton on 11.05.2017 and 12.05.2017

- 1. Dr. K. Senguttuvan, Assistant Professor (Entomology), Department of Cotton, Coimbatore.
- 2. Dr. M. Sassikumar, Assistant Professor (Entomology), Cotton Research Station, Srivilliputtur.
- 3. Dr. R. Vimala, Professor (Plant Pathology), Cotton Research Station, Srivilliputtur.
- 4. Dr. P. Latha, Asst. Professor (Plant Pathology), Department of Cotton, TNAU, Coimbatore.

General Recommendation:

1. Two University Research Projects (URP) and an external agency funded project (EFP) to be prepared and submitted by Dr. R. Vimala, Professor (Plant Pathology), Cotton Research Station, Srivilliputtur) and one each of URP and EFP by Dr. P. Latha, Asst. Professor (Plant Pathology), Department of Cotton, TNAU, Coimbatore on or before 30-06-2017.

ACTION PLAN (2017-2018)

- Population dynamics of cotton insect pests and diseases in irrigated and rainfed ecosystem.
- Host plant resistance for sucking pests and diseases
- > Development of pink bollworm management module
- > Development of IDM module for the management of wilt and root rot in cotton

| ACTION PLAN 2017-2018 | | | | | |
|--|--|---|---|--|--|
| Theme Leader | Dr. K. Senguttuvan, Asst. Professor (Entomology), Dept. of Cotton, Coimbatore. Mr. M. Sassikumar, Asst. Professor (Entomology), CRS, Srivilliputtur. Dr. R. Vimala, Professor (Plant Pathology), CRS, Srivilliputtur. Dr. P. Latha, Asst. Professor (Plant Pathology), Department of Cotton, Coimbatore. | | | | |
| Activity | 2017-2018 | 2018-2019 | Deliverables | | |
| Population dynamics of cotton insect pests and diseases in irrigated and rainfed ecosystem | Insect, mite and diseases incidence in cotton will be monitored throughout the crop period in both irrigated and summer cotton. Insect, mite and diseases incidence levels will be correlated with the weather parameters. Developing prediction models using the available data for pest incidence. Centre: CBE & SVPR | In addition to that continuous monitoring of insect pests and diseases correlation of insect data of two years to predict pests dynamic model will be worked. Centre: CBE & SVPR | Timely forecasting of the pest incidence and suitable pest management. | | |
| Host plant resistance for sucking pests and diseases | Screening of TNAU MLT and ART entries for sucking pests and borers, root rot and Alternaria leaf blight. Screening AICCIP entries including Bt hybrids / varieties Centre: CBE | Identifying resistant entries; reconfirmation through advanced artificial screening. Centre: CBE | Most promising resistant entries will be given to breeders for further crossing purpose. | | |

| Development of pink bollworm management module 1) Growing the crop at correct season 2) Refugia maintenance 3) Regular monitoring for insects 4) Use pheromone trap for monitoring 5) Release of Trichogramma bactrae 6) Need based chemical application 7) Timely harvest 8) Remove crop residues immediately after harvest 9) Crop rotation | IPM module to be tested at hot spot - Anthiyur. Centre : CBE | Comparing the existing IPM and improved one and doing mid correction if required. Centre: CBE | Suitable pink bollworm management module development. |
|---|---|--|---|
| Development of IDM module for the management of wilt and root rot in cotton One university research project may be formulated based on this action plan | IDM module to be tested under field condition. Centre : CBE | The effective module tested in under field condition. Centre : CBE | Effective wilt and root rot management module development. |

UNIVERSITY RESEARCH PROJECTS WISE REMARKS - CROP PROTECTION

| Sl.No. | Project No. and Title | Project leader and location | Period | Remarks |
|--------|--|--|------------------------------------|--|
| | ENTOMOLOGY - University Research Proje | cts (URP) | | |
| 1 | CPPS/CBE/ENT/COT/2015/001 Studies on thrips diversity of cotton ecosystem and it's management, Department of Cotton, Coimbatore | Dr. K. Senguttuvan Assistant Professor (Entomology), Department of Cotton, TNAU, Coimbatore | June 2015 to March 2017 | The project to be closed and completion report be submitted. New URP may be proposed. |
| 2 | CPPS/KPT/AEN/COT/2013/001 Ecology and management of leafhopper Amrasca biguttula biguttula (Ishida) in cotton ecosystem, ARS, Kovilpatti | Dr. C. Gailce Leo Justin Professor (Agrl. Entomology), Agricultural Research Station, Kovilpatti | August, 2013 to September, 2016 | To be continued by Dr. P. Ananthi and completion report to be submitted. |
| 3 | CPPS/KPT/AEN/COT/2014/002 Development of Integrated Pest Management strategies for the management of cotton stem weevil, Pempherulus affinis (Faust), ARS, Kovilpatti | Dr. C. Gailce Leo Justin Professor (Agrl. Entomology), Agricultural Research Station, Kovilpatti | August, 2014 to September, 2017 | |

| | PATHOLOGY - University Research Projects | | | | | |
|---|--|--|--------------------------|---|--|--|
| 6 | CPPS/SVP/PAT/COT/2013/001 Screening of cotton accessions for resistance to major foliar and root diseases | Dr. R.Vimala, Professor (Plant Pathology), Cotton Research Station, Srivilliputtur | June 2013 to May 2016 | Completion report to be submitted and data generated to be published. New URP may be proposed. | | |
| 7 | CPPS/ VPT/PAT/COT/2015/003 Exploitation of phylloplane and endophytic microorganism for the management of bacterial blight of cotton. | Dr.K.Kalpana, Assistant Professor, (Plant Pathology), Cotton Research Station, Veppanthattai | Aug 2015-July 2018 | Kept in abeyance in view of transfer project leader | | |

Load of each scientist (Theme wise)

Theme 1: Characterization of genotypes

Theme 2: Developing long and extra long staple cotton genotypes

Theme 3: Developing superior medium staple cotton genotypes

Theme 4: Developing genotypes with short duration and compactness for HDPS and rice fallow

Theme 5: Improvement of *G. arboreum* genotypes

| SI. No. | Name of the scientist | Theme 1 | Theme 2 | Theme 3 | Theme 4 | Theme 5 | Total |
|------------|-----------------------|---------|---------|---------|---------|---------|-------|
| | (man hours / week) | | | | | | |
| 1 | M. Kumar | | 26 | | | | 26 |
| 2 | N. Meyyazhagan | | | | 20 | | 20 |
| 3 | M. Gunasekaran | | | 15 | 10 | | 25 |
| 4 | P. Amala balu | | | | 10 | | 10 |
| 5 | L. Mahalingam | 15 | | | | | 15 |
| 6 | S. Sivakumar | | 20 | | | | 20 |
| 7 | R. Vimala | | | 5 | 5 | | 10 |
| 8 | N. Sakthivel | | 10 | | 10 | | 20 |
| 9 | N. Premalatha | 10 | | 8 | 10 | | 28 |
| 10 | M. Gnanasekaran | | | 20 | | | 20 |
| 11 | K. Thiyagu | | | | 15 | | 15 |
| 12 | K. Bharathi Kumar | | | 8 | 13 | | 21 |
| 13 | K. Hari | | | 5 | 13 | 15 | 33 |
| | ramakrishnan | | | | | | |
| 14 | R. Veeraputhiran | | | | 15 | | 15 |
| 15 | K. Senguttuvan | 6 | 6 | | | | 12 |
| 16 | K. Sassikumar | | | 5 | | | 5 |
| 17 | P. Latha | 6 | 6 | | | | 12 |

WORK LOAD OF COTTON SCIENTISTS FOR THE YEAR 2017-18

| S. No. | Scientists | % of time |
|--------|---------------------|-----------|
| 1 | M. Kumar | |
| | Univ. Sub Project-1 | 20 |
| | Teaching | 15 |
| | Students guide | 15 |
| | Administration | 35 |
| | Other Activities | 15 |
| 2 | N. Meyyazhagan | |
| | Univ. Sub Project-1 | 20 |
| | Administration | 50 |
| | Other Activities | 30 |
| 3 | M. Gunasekaran | |
| | Univ. Sub Project-1 | 20 |
| | Ext.Funded Projects | 30 |
| | Administration | 30 |
| | Other Activities | 20 |
| 4 | P. Amala balu | |
| | Univ. Sub Project-1 | 20 |
| | AICRP | 40 |
| | Teaching | 20 |
| | Students guide | 15 |
| | Other Activities | 5 |
| 5 | L. Mahalingam | |
| | Univ. Sub Project-1 | 20 |
| | Univ. Sub Project-2 | 20 |
| | Teaching | 15 |
| | Students guide | 15 |
| | Breeder seed | 15 |
| | Other Activities | 15 |
| 6 | S. Sivakumar | |
| | Univ. Sub Project-1 | 25 |
| | AICRP | 25 |
| | Other Crop (Maize) | 25 |
| | Other Activities | 25 |

| S.No. | Scientists | % of time |
|-------|-------------------------|--------------|
| 9 | N. Premalatha | time |
| | Univ. Sub Project-1 | 20 |
| | Univ. Sub Project-2 | 20 |
| | Ext. Funded Projects | 30 |
| | Teaching | 20 |
| | Other Activities | 10 |
| 10 | M. Gnanasekaran | |
| | Univ. Sub Project-1 | 30 |
| | AICRP | 40 |
| | Other Activities | 30 |
| 11 | K. Thiyagu | |
| | Univ. Sub Project-1 | 20 |
| | Univ. Sub Project-2 | 20 |
| | AICRP | 40 |
| | Other Activities (farm) | 20 |
| 12 | K. Bharathi Kumar | |
| | Univ. Sub Project-1 | 40 |
| | AICRP | 20 |
| | Other Activities (farm) | 40 |
| 13 | K. Hari ramakrishnan | |
| | Univ. Sub Project-1 | 20 |
| | Univ. Sub Project-2 | 20 |
| | AICRP | 20 |
| | Teaching | 20 |
| | Other Activities | 20 |
| 14 | R. Veeraputhiran | |
| | Univ. Sub Project-1 | 25 |
| | AICRP | 25 |
| | Other Activities | 50 |
| 15 | K. Senguttuvan | |
| | Univ. Sub Project-1 | 25 |
| | AICRP | 25 |
| | Teaching | 20 |
| | Other Activities (farm) | 30 |

| 7 | R. Vimala | |
|---|-------------------------|----|
| | Univ. Sub Project-1 | 20 |
| | PCC | 50 |
| | Other Activities | 30 |
| 8 | N. Sakthivel | |
| | Univ. Sub Project-1 | 20 |
| | AICRP | 40 |
| | Teaching | 20 |
| | Other Activities (farm) | 20 |

| 16 | K. Sassikumar | |
|----|---------------------|----|
| | Univ. Sub Project-1 | 25 |
| | AICRP | 25 |
| | Other Activities | 50 |
| 17 | P. Latha | |
| | Univ. Sub Project-1 | 20 |
| | AICRP | 40 |
| | Teaching | 20 |
| | Other Activities | 20 |