

PROCEEDINGS OF 28th SCIENTIST'S MEET ON FORESTRY AND 9th SCIENTIST'S MEET ON SERICULTURE 2018

Pre-review meeting was held at Forest College and Research Institute, Mettupalayam, on 12-6-2018. Dean (Forestry), Director (CPPS) and Director (Crop Management) reviewed the progress of work of externally funded schemes, university research projects of Forestry and Sericulture, respectively. The 28th Scientists' Meet on Forestry and 9th Scientists' Meet on Sericulture was held on 13-06-2018 at the Seminar Hall – I, TNAU, Coimbatore, with a view to review the ongoing research projects in Forestry and Sericulture. Scientists involved in Forestry and Sericulture research from FC&RI, Mettupalayam, ADAC & RI, Trichy, AC & RI, Kudimiyamalai, AC & RI, Vazhavachanur, CoE, TNAU, Coimbatore, University Officers, Professor and Head of various departments attended the meeting. The meeting was chaired by the Vice Chancellor, TNAU, Coimbatore.

Dr. K. Ramaraju, Director of Research, TNAU, Coimbatore, welcomed the gathering and briefed the significance of green cover and cultivation of mulberry. He emphasized the importance of agroforestry due to changing scenario in agriculture. Dr. K. K. Suresh, Dean, FC&RI, Mettupalayam, presented the action taken report on the recommendations of 27th Scientists' Meet on Forestry. Progress of work (2017-2018) was presented by the Professor and Head of Tree Breeding, Agroforestry, Silviculture, Forest Products and Utilization and Sericulture.

Remarks by the Vice-Chancellor

General Remarks

- All faculty of Forestry and Sericulture to be facilitated to study one e-course
- Efforts may be taken to identify Assistant Professors in Forestry discipline and enable them to get trained abroad and specialize in a particular field
- One Assistant Professor (Horticulture) shall be posted in this campus to take up horticulture based research and to handle horticulture courses

Tree breeding

- Research to be oriented towards improvement of quality characters in addition to quantity improvement
- Test kit is to be developed for verifying azadirachtin content in neem seeds
- Root profile of neem to be investigated
- Geo fencing concept to be mooted
- Sandal seeds to be collected from Indian Institute of Science, Bengaluru for conducting seed technology studies

Agroforestry

- Establishment of multifunctional, circular agroforestry model in farmer's field and TNAU stations
- Dr.Kalpna Sastry, Tata Institute of Social Sciences to be invited for sociological studies
- Database to be created for farmers using TNAU released tree varieties

Silviculture

- Sandal cultivation work to be continued
- Sweet tamarind need to be assembled at FC & RI
- Air pollution tolerant trees to be documented

Forest Products & Utilization

- Wood characterization studies to be undertaken in lesser known tree species
- *Amanita* growing under *Simarouba* to be studied and mass multiplication to be undertaken
- Valuation of different ecosystem services covering natural forest, agroforestry, wetland and agro-ecosystem
- Detailed studies on vegetation establishment in *Prosopis* eradicated areas

Sericulture

- Gut microflora of silkworm may be explored
- Mulberry based crop cafeteria / demo plot has to be developed

Proceedings of 28th Scientist's Meet on Forestry and 9th Scientist's Meet on Sericulture 2018, are presented in the following order

- 1) Staff Pattern
- 2) Remarks on the individual Externally funded / University Research Projects
- 3) Action Plan: 2018-2019
- 4) Work load of each scientist (Theme wise)

I. DEPARTMENT OF TREE BREEDING

1. Staff Pattern

S. No.	Name	Designation
1	Dr. K. Kumaran	Professor and Head
2	Dr. M.K.Shivaa	Professor (Forestry)
3	Dr. R.Umarani	Professor (Seed Science & Technology)
4	Dr. Devanand	Assistant Professor (Plant Breeding and Genetics)
5	Dr. M.Umadevi	Assistant Professor (Plant Breeding and Genetics)
6	Dr. S.Vennila	Assistant Professor (Forestry)
7	Dr. N.Raja	Assistant Professor (Computer Science)

II. Remarks on the ongoing Externally Funded / University Research Projects

S. No.	Project Number	Remarks
Externally Funded Projects		
1.	TANII/FOR/MTP/DTB/2016/R004 Promotion, Commercialization, Post-Harvest Processing and Industrial Application of Annatto (<i>Bixa orellana</i> L.) as a Source of Natural Dye (Dr. K. Kumaran)	The project may be continued
2.	EID/FCRI/MTP/DTB/2017/R005 Screening of neem genetic resource for higher azadirachtin content, establishment of field gene bank and industrial plantations (Dr. K. Kumaran)	The project may be continued
University Research Projects		
1.	FCRI/MTP/FOR/2015/002 Establishment of an arboretum of rare and characteristic species of Western Ghats (Dr.S.Vennila)	A proposal may be submitted for the extension of the project for a further period of two years
2.	FCRI/MTP/FOR/2016/001 Screening of Indigenous pulpwood species for paper production (Dr.S.Vennila)	The project may be closed and the completion report to be submitted
3.	CPBG/MTP/PBG/2017/001 Studies on reproductive biology of Annatto (<i>Bixa orellana</i> L.) (Dr. M.Umadevi)	The project may be continued
4.	CPPS/MTP/NEM/2017/001 Characterization of host suitability of Annatto, (<i>Bixa orellana</i> L.) to plant-parasitic nematodes (Dr.P.G.Kavitha)	The project may be closed as no Nematologist is available in FC & RI

II. Entries for variety release/ ART/ MLT evaluation: MTP Bixa 1 (KABi 8)

III. Theme wise action plan (2018 – 2019)

Theme 1: Collection and Assemblage of the germplasm of prioritized tree species

Theme 2: Reproductive biology studies in the identified tree species

Theme 3: Genetic improvement and varietal development in *Bixa orellana*

Theme 4: Development of minimum certification standards and propagation protocol for mass multiplication

Theme 1	Collection and Assemblage of the germplasm of prioritized tree species
Theme Leader	Dr.K.Kumaran, Professor and Head, Department of Tree Breeding, FC&RI, Mettupalayam
Ongoing projects	1. FCRI/MTP/FOR/2015/002 (URP) 2. TANII/ FCRI/ MTP/DTB/ 2016/ R004 (Externally funded) 3. EID/FCRI/MTP/DTB/2017/R005 (Externally funded) 4. CPBG/MTP/PBG/2016/001 (URP) 5. AICRP/FOR/MTP/FOR/002

S. No.	Activity	Name of the Scientist and Centre	2018 - 19	Expected outcome
1	Collection and Assemblage of germplasm	Dr.K.Kumaran FC & RI, Mettupalayam	Establishment of Progeny Evaluation Trials in <i>1. Bixa orellana</i> <i>2. Azadirachta indica</i>	Field gene bank of Annatto with high bixin Field gene bank of Neem with high oil and azadirachtin
2		Dr.P.S.Devanand FC & RI, Mettupalayam	Establishment of Progeny Evaluation Trials in <i>1. Caesalpinia sappan</i> <i>2. Amaranthus spp</i>	Field Gene Bank of <i>Caesalpiniasappan</i> and seed bank of <i>Amaranthus spp.</i>
3		Dr.S.Umeshkanna AC&RI, Madurai Dr.M.Kiruba AC&RI, Echenkottai Dr.B.Sivakumar AC&RI, Thiruvannamalai	Collection and assemblage of germplasm of <i>1. Azadirachta indica</i> <i>2. Caesalpinia sappan</i>	Contribution to the collection of germplasm in the identified species
4		Dr.P.Rajendran AC&RI, Kudumiyamalai	Collection and assemblage of germplasm of <i>1. Pterocarpus marsupium</i> <i>2. Azadirachta indica</i>	Contribution to the collection of germplasm in the identified species
5		Dr.P.Kumar AC&RI Killikulam Dr. M.Murugesh AC&RI, Trichy	Establishment of Progeny Evaluation Trials in <i>Bixa orellana</i>	Establishment of field gene bank of <i>Bixa orellana</i>
8		N.Raja FC & RI, Mettupalayam	Development web/mobile app for database of assembled germplasm	Digital documentation of all the assembled germplasm

Theme 2		Reproductive biology studies in the identified tree species		
Theme Leader		Dr.M.Umadevi		
Project No.		CPBG/MTP/PBG/2017/001(URP)		
S. No.	Activity	Name of the Scientist and Centre	2018 - 2019	Expected outcome
1.	Floral and reproductive biology of <i>Bixa orellana</i> , <i>Kigelia pinnata</i> , and <i>Azadirachta indica</i>	Dr.M.Umadevi FC&RI, Mettupalayam	Phenological and maturation studies	Basic information of the reproductive behavior of the identified species

Theme 3		Genetic Improvement and Varietal Development in <i>Bixa orellana</i>		
Theme Leader		Dr.K.Kumaran		
Project No.		TANII/ FCRI/ MTP/DTB/ 2016/ R004 (Externally funded)		
S. No.	Activity	Name of the Scientist and centre	2018 - 19	Expected outcome
1.	Varietal development in Annatto (<i>Bixa orellana</i>)	Dr.K.Kumaran Dr.S.Vennila Dr.P.S.Devanand Dr.M.Umadevi FC & RI, Mettupalayam	Continuation of Multi Location Trials for varietal identification	A promising variety with higher bixin content will be screened and released
		Dr. P. Kumar AC & RI, Killikulam	Continuation of Multi Location Trials for varietal identification	

Theme 4		Development of minimum certification standards and propagation protocol for mass multiplication		
Theme Leader		Dr.R.Umarani		
Project No.		TANII/ FCRI/ MTP/DTB/ 2016/ R004 (Externally funded) EID/FCRI/MTP/DTB/2017/R005 (Externally funded)		
S. No.	Activity	Name of the Scientist and Centre	2018 - 19	Expected outcome
1.	Development of seed and seedling standards for the identified species	Dr.R.Umarani FCRI, Mettupalayam	Studies will be continued	Certification standards for seed and seedlings of Neem and Annatto
2	Standardizing the clonal propagation protocol	Dr.S.Vennila FCRI, Mettupalayam	Standardizing mini clonal propagation for neem	Clonal propagation technique for mass multiplication

Workload of each Scientist (Theme wise)

S. No.	Name of the Scientist	Theme (man hours/ week)				Total
		1	2	3	4	
1	Dr.K.Kumaran	10		10		20
2	Dr. M.K.Shivaa					-
3	Dr. R.Umarani	10				10
4	Dr. Devanand		10	10		20

5	Dr. M.Umadevi	10	15			25
6	Dr. S.Vennilla			10		20
7	Dr. N.Raja	10				10
8	Dr.M.Murugesh			10		10
9	Dr.S.Umeshkanna	10				10
10	Dr.M.Kiruba	10				10
11	Dr.B.Sivakumar	10				10
12	Dr. P.Rajendran	10				10
13	Dr. P.Kumar	10		10		20

Work load of individual scientists for 2018 – 19

S.No.	Scientists	% of time
1.	Dr. K.Kumaran	
	University Research Project (Theme area)	20
	Externally Funded Project (PI)	20
	Venture Capital Scheme	-
	Teaching	20
	Students guide	10
	Administration	20
	Other activities	10
2.	Dr. M.K.Shivaa	
	University Research Project (Theme area)	
	Externally Funded Project (PI)	20
	Venture Capital Scheme	20
	Teaching	20
	Students guide	20
	Administration	
	Other activities	20
3.	Dr. R.Umarani	
	University Research Project and theme area	20
	Externally Funded Project (Co-PI)	-
	Venture Capital Scheme	-
	Teaching	30
	Students guide	30
	Administration	-
	Other activities	20
4.	Dr. P.S.Devanand	
	University Research Project and Theme area	5
	Externally Funded Project	20

	Venture Capital Scheme	10
	Teaching	50
	Students guide	5
	Administration	-
	Other activities	10
5.	Dr. M.Umadevi	
	University Research Project and theme area	25
	Externally Funded Project (Co-PI)	20
	Venture Capital Scheme	-
	Teaching	30
	Students guide	5
	Administration	-
	Other activities	20
6.	Dr. S.Vennilla	
	University Research Project and theme area	20
	Externally Funded Project (Co-PI)	20
	Venture Capital Scheme	-
	Teaching	40
	Students guide	10
	Administration	-
	Other activities	10
7.	Dr. N.Raja	
	University Research Project and theme area	20
	Externally Funded Project -1 (Co-PI)	20
	Venture Capital Scheme/Self supporting	-
	Teaching	30
	Students guide	10
	Administration	-

II. DEPARTMENT OF SILVICULTURE

1. Staff pattern of the Department

S. No.	Name	Designation
1	Dr. A. Balasubramanian	Professor and Head
2	Dr. I. Sekar	Professor (Forestry)
3	Dr. M. Prasanthrajan	Associate Professor (Env. Science)
4	Dr. M. Suganthy	Associate Professor (Agrl. Entomology)
5	Dr. S. Radhakrishnan	Associate Professor (Forestry)
6	Mrs. M. Vijayabhama	Assistant Professor (Statistics)
7	Dr. M. Sivaprakash	Assistant Professor (Forestry)
8	Dr. P. Chitra	Assistant Professor (V&AS)

2. Remarks on the ongoing Externally Funded Projects / University Research Project

a) Externally Funded Projects

S. No.	Title of the Externally Funded Projects	Remarks
1	IINRG/FCRI/MTP/DOS/2014/R002 Harvesting, processing and value addition of Tamarind seed gum (Dr. A. Balasubramanian)	The project may be continued
2	GoTN/FCRI/MTP/DOS/2017/R009 Developing timber yield table for Neem and Albizia grown in western agro climatic zone of Tamil Nadu (Dr. A. Balasubramanian)	The project may be continued
3	GoTN/FCRI/MTP/DOS/2017/R007 Developing Growth Yield Table for seed stand and seed orchard of <i>Ailanthus excelsa</i> in Tamil Nadu (Dr. S. Radhakrishnan)	The project may be continued
4	GoTN/FCRI/MTP/DOS/2017/R008 Study on Ecological succession in Invasive species eradicated forest areas (Dr. S. Radhakrishnan)	The project may be continued
5	GoTN/FCRI/MTP/DOS/2017/R006 Inventory of Medicinal Plants Diversity in Salem and Dharmapuri forest circles of Tamil Nadu (Dr. S. Radhakrishnan)	The project may be closed and the completion report to be submitted to the sponsoring agency

b) University Research Project

S. No.	Title of the URP	Remarks
1.	NRM/MTP/ENS/2016/001 Development of biofloating technology for the odour management in sewage water (Dr. M. Prasanthrajan)	The project may be continued
2.	FCRI/MTP/FOR/2017/001 Studies of water requirement of Red sanders (<i>Pterocarpus santalinus</i>) at early stages of growth (Dr. S. Radhakrishnan)	The project may be continued
3.	Construction of Growth and Yield Prediction Models for <i>Neolamarckia cadamba</i> in Western Zone of Tamil Nadu (Mrs. Vijayabhama)	The project may be continued
4.	NRM/MTP/SAC/2015/001 Fertigation Scheduling - A Research Initiative for Commercial Cultivation of Trees (Dr. R.K. Kaleeswari and Dr. A. Balasubramanian)	The project may be closed and the completion report to be submitted
5.	FCRI/MTP/FOR/2017/002 Effect of different pruning intensities on growth performance of <i>Dalbergia sissoo</i> (Dr.S.Manivasakan)	The project may be closed and the completion report to be submitted

3. Entries for variety release/ART/MLT evaluation : Nil

4. Action plan for 2018 - 2019 on the identified themes :

Theme 1	Production Silviculture			
Projects	URP 1. AECRI/MTP/STA/2017/001, Construction of Growth and Yield Prediction Models for <i>Neolamarckia cadamba</i> in Western Zone of Tamil Nadu EFP 1. IINRG/FCRI/MTP/DOS/2014/R002, Harvesting, processing and value addition of Tamarind seed gum 2. GoTN/FCRI/MTP/DOS/2017/R009, Developing timber yield table for Neem and Albizia grown in western agro climatic zone of Tamil Nadu 3. GoTN/FCRI/MTP/DOS/2017/R007, Developing Growth Yield Table for seed stand and seed orchard of <i>Ailanthus excelsa</i> in Tamil Nadu			
Theme Leader	Dr. A.Balasubramanian			
S.No.	Activity	Name of the Scientist and centre	2018-19	Deliverables/ expected outcome
1	Developing precision Silvicultural	Dr. A. Balasubramanian	<ul style="list-style-type: none"> Standardization of fertigation schedule through drip irrigation 	Precision silvicultural

	techniques for fast growing indigenous tree species	Dr. M. Siva Prakash Dr. I. Sekar Dr. P. Chitra	<ul style="list-style-type: none"> Standardization of silvicultural techniques for root, stem, and canopy management Yield assessment of plantation for different age classes 	techniques will be standardized for fast growing indigenous tree species
2	Standardising precision Silvicultural techniques for <i>Enterolobium cyclocarpum</i> and <i>Neolemarkia cadamba</i> clones	Dr. M. Sivaprakash Dr. I. Sekar	<ul style="list-style-type: none"> Assemblage of plus trees Standardization of rooting techniques for cuttings Initiation of field experiments 	Clonal propagation techniques will be standardized. Five to six candidate trees will be assembled for testing.
3	Development of bio-intensive management of insect pests in <i>Ailanthus excelsa</i>	Dr.M.Suganthy	<ul style="list-style-type: none"> Documentation of entomofauna associated with ailanthus including natural enemies Development of pest management strategies for ailanthus defoliators 	Pest management strategies will be developed for ailanthus defoliators
4	Development of yield prediction model for <i>Neolemarkia cadamba</i>	Mrs.M.Vijayabhama	<ul style="list-style-type: none"> Documenting the growth characters of <i>Neolemarkia cadamba</i> for different age classes Developing yield model for <i>Neolemarkia cadamba</i> 	Yield prediction model will be developed for farm grown <i>Neolemarkia cadamba</i> plantation

Theme 2	Conservation Silviculture
Projects	<p>URP</p> <ol style="list-style-type: none"> FCRI/MTP/FOR/2017/001, Studies on water requirement for early growth of <i>Pterocarpus santalinus</i> <p>EFP</p> <ol style="list-style-type: none"> GoTN/FCRI/MTP/DOS/2017/R008, Study on Ecological succession in Invasive species eradicated forest areas GoTN/FCRI/MTP/DOS/2017/R006, Inventory of Medicinal Plants Diversity in Salem and Dharmapuri forest circles of Tamil Nadu

Theme Leader		Dr. S. Radhakrishnan		
S.No.	Activity	Name of the Scientist and centre	2018-19	Deliverables/ expected out come
1	Developing Silvicultural techniques for the conservation and promotion of Red sanders and Sandal	Dr. S. Radhakrishnan Dr. M. Siva Prakash	<ul style="list-style-type: none"> Standardizing host specificity for sandal Developing pruning standards for host and sandal Developing silvicultural technique for early growth promotion in Red sanders. Sensitizing farmers and other stake holders on Sandal and Red sanders tree farming. 	<ul style="list-style-type: none"> Silviculture techniques for promotion early growth in sandal and Red sanders. Promoting Sandal and Red Sanders cultivation in farm lands.
2	Assemblage of lesser known gum yielding trees	Dr. A. Balasubramanian Dr. S. Radhakrishnan	<ul style="list-style-type: none"> Gum yielding tree species of regional importance will be assembled Tamarind germplasm for tamarind seed gum utility will be assembled by collecting released varieties/improved genotypes developed by different organizations 	Ten gum yielding tree species will be assembled at FC&RI. Five genotypes/varieties will be assembled at FC&RI.

Theme 3	Trees and Pollution Abatement
Projects	URP : NRM/MTP/ENS/2016/001 Development of biofloating technology for the odour management in sewage water
Theme Leader	Dr. M. Prasanthrajan

S.No.	Activity	Name of the Scientist and centre	2018-19	Deliverables/ expected outcome
1	Development of bio floating techniques for water pollution control	Dr. M. Prasanthrajan	<ul style="list-style-type: none"> Screening of plant/tree species for establishing biofloaters for waste water treatment 	Plants/Trees suitable for biofloating will be standardized. Biofloating techniques will be standardized for waste water treatment.
2	Screening of tree species for urban air pollution abatement	Dr. M. Prasanthrajan Dr. A. Balasubramanian	<ul style="list-style-type: none"> Real-time ambient air quality at various locations of Coimbatore will be monitored Screening of tree species for urban air pollution abatement 	Trees suitable for air pollution will be recommended for planting in urban areas.

5. Workload of each Scientist (Theme wise)

Theme 1: Production Silviculture

Theme 2: Conservation Silviculture

Theme 3: Trees and pollution abatement

S. No.	Name of the scientist	Man hours / Week			
		Theme 1	Theme 2	Theme 3	Total
1	Dr. A. Balasubramanian	30	10	10	50
2	Dr. I. Sekar	10	5	-	15
3	Dr. M. Prasanthrajan	-	-	25	25
4	Dr. M. Suganthy	10	-	-	10
5	Dr. S. Radhakrishnan	-	20	-	20
6	Mrs. M. Vijayabhama	20	-	-	20
7	Dr. M. Sivaprakash	30	5	-	35
8	Dr. P. Chitra	10	-	-	10

WORKLOAD OF SCIENTISTS - DEPARTMENT OF SILVICULTURE (2018-19)

S. No.	Scientists	Percentage of time
1	Dr. A. Balasubramanian	
	University Research Projects	-
	Teaching	30
	Students guidance	30
	Administration	30
	Other activities	10
2	Dr. I Sekar	
	University Research Projects	-
	Teaching	50
	Students guidance	30
	Administration	-
	Other activities	20
3	Dr. M. Prasanthrajan	
	University Research Projects	20
	Teaching	40
	Students guidance	20
	Administration	-
	Other activities	20
4	Dr. M. Suganthy	
	University Research Projects	20
	Teaching	40
	Students guidance	20
	Administration	-
	Other activities	20
5	Dr. S. Radhakrishnan	
	University Research Projects	20
	Teaching	40
	Students guidance	20
	Administration	-
	Other activities	20
6	Mrs. M. Vijayabhama	
	University Research Projects	20
	Teaching	60
	Students guidance	10
	Administration	-
	Other activities	10
7	Dr. M. Sivaprakash	
	University Research Projects	20

	Teaching	40
	Students guidance	10
	Administration	-
	Other activities	30
8	Dr. P. Chitra	
	University Research Projects	20
	Teaching	20
	Students guidance	-
	Administration	-
	Other activities	40

III. DEPARTMENT OF AGROFORESTRY

1. Staff pattern

S. No.	Name	Designation
1	Dr.K.T.Parthiban,	Professor and Head
2	Dr.P.Shanthi	Professor (Agronomy)
3	Dr.R.Jude Sudhagar	Assistant Professor (Forestry)
4	Dr.C.Cinthia Fernandaz	Assistant Professor (Agricultural Extension)
5	Dr. K.Sivakumar	Assistant Professor (SS&AC)
6	Dr.K.Ramah	Assistant Professor (Agronomy)
7	Dr.R.Ravikumar	Assistant Professor (Mathematics)
8	Dr.S.Sengottaiyan	Assistant Professor (Tamil)

2. Remarks on the ongoing Externally Funded / University Research Projects

Department of Agroforestry

S. No.	Scheme	Remarks
Externally funded projects		
1.	APB/FCRI/MTP/DTB/2014/R003 Inventory, Evaluation and Promotion of Genetic resources of tree species amenable for plywood making in Tamil Nadu (Dr.K.T.Parthiban)	The project may be continued
2.	TNPL/FCRI/MTP/AGF/2015/R001 Screening, evaluation and improvement of indigenous tree species for coastal agro forestry (Dr.K.T.Parthiban)	The project may be closed and the completion report to be submitted to the sponsoring agency
3.	CPL/FCRI/MTP/AGF/2017/R005 Improvement, Characterization and Utilization of tree species amenable for Composite Wood Technology (CWT) (Dr.K.T.Parthiban)	The project may be continued
4	Consortium of Industrial Agroforestry (Dr.K.T.Parthiban)	The project may be continued

University Research projects		
1	DCM/MTP/AGR/2016/001 Screening and evaluation of shade tolerant fodder crops in <i>Melia dubia</i> based silvipastoral system (Dr. K. Ramah)	A proposal may be submitted for the extension of the project for a further period of one year
2	CARDS/MTP/AEX/2016/001 Development and Promotion Of Tree Based Farmer Producer Organisations in Coimbatore District (Dr.C.Cinthia Fernandez)	The completion report has been submitted
3	AECRI/MTP/MAT/2016/001 Prediction and validation of growth and development of <i>Melia dubia</i> using nonlinear multilevel mixed effects model (Dr. R. Ravi Kumar)	The project may be continued

3. Action plan (2018 – 2019)

Department of Agroforestry

Theme1		Development of High Yielding Short Rotation (HYSR) clones amenable for multifunctional Agroforestry systems		
Theme Leader	Dr.K.T.Parthiban			
S. No.	Activity	Name of the Scientist and centre	2018 – 2019	Deliverables / Expected outcome
1	Development of HYSR clones amenable for multifunctional Agroforestry systems	Dr.K.T.Parthiban Dr.P.S.Devanand Dr.S.Vennila Centre :FC&RI, MTP Dr.P.Rajendran Centre : AC&RI, Kudumiyamalai	Characterization for wood quality- Utility Development of DUS traits	Promising genotypes
Theme2		Design and development of Agroforestry models		
Theme Leader	Dr.R.Jude Sudhagar			
1	Design and development of Agroforestry models	Dr.R.Jude Sudhagar Dr.K.Ramah Centre : FC&RI	Timber based Agroforestry model Pulpwood based Agroforestry model Plywood based Agroforestry model Dendro biomass based Agroforestry model Non timber based Agroforestry model	Sustainable models suitable for farm lands

Theme3	Tree fodder studies and development of concentrate feed			
Theme Leader	Dr.K.Sivakumar			
1	Tree fodder studies and development of tree fodder based concentrated feed	Dr.K.Sivakumar Centre : FC&RI, Mettupalayam Dr.S.Umesh Kanna Centre : AC&RI, Madurai Dr.R.Jude Sudhagar Dr. P.Chitra, AP (Animal Husbandry) Centre : FCRI, Mettupalayam	Development of feed concentrate	Identification of high productivity tree fodder species
Theme4	Design and development of climate resilient Agroforestry model			
Theme Leader	Dr.P.Shanthi			
1	Design and development of climate resilient Agroforestry model	Dr.P.Shanthi, Dr.K.Ramah Dr.M.Prasanthrajan Dr. K.Sivakumar Dr.R.Ravi kumar Centre : FCRI,Mtp	Carbon sequestration studies Impact studies- soil and environment	Climate resilient agroforestry models will be developed
Theme5	Impact studies (Productivity, Profitability, Socio-economic and Environmental)			
Theme Leader	Dr.C.Cinthia Fernandaz			
1	Impact studies	Dr.C.Cinthia Fernandaz Dr.V.Karthick Dr.P.Balaji Dr.S.Sengottaiyan Centre : FC&RI,MTP	Productivity impact Profitability impact Socio-economic impact Environmental and social safeguard	Agroforestry models with high impact on the profitability and socio-economic fronts

Work Load of each scientist (Theme wise)

S.no	Name of the scientist	Theme1	Theme2	Theme 3	Theme 4	Theme 5	Total
1	Dr.K.T.Parthiban	20	2	2	2	5	31
2	Dr.P.Shanthi	-	-	-	20	-	20
3	Dr.R.Jude Sudhagar	-	10	5	5	-	20
4	Dr.C.Cinthia Fernandaz	-	-	-	-	20	20
5	Dr. K.Sivakumar	-	-	-	20	-	20
6	Dr.K.Ramah	-	20	-	-	-	20
7	Dr.R.Ravi kumar	-	-	-	20	-	20
8	Dr.S.Sengottayan	-	-	-	-	20	20
9	Dr.P.Rajendran	5	-	-	-	-	5
10	Dr.P.S.Devanand	5	-	-	-	-	5
11	Dr.S.Vennila	5	-	-	-	-	5
12	Dr.S.Umesh Kanna	-	-	5	-	-	5
13	Dr.M.Prasanthrajan	-	-	-	5	-	5
14	Dr. V.Karthick	-	-	-	-	3	3
15	Dr. P. Balaji	-	-	-	-	3	3
16	Dr.P. Chitra	-	-	3	-	-	3

WORK LOAD OF SCIENTISTS (AGROFORESTRY) FOR THE YEAR 2018-19

S.No	Name of the Scientist	% of time
1	Dr.K.T.Parthiban	
	Projects	20
	Teaching	20
	Students guide	20
	Administration	20
	Other activities	20
2	Dr.P.Shanthi	
	Teaching	40
	Students guide	20
	Administration	20
	Other activities	20
3	Dr.R.Jude Sudhagar	
	AICRP	20
	Projects	20
	Teaching	20
	Students guide	20
	Administration	10

	Other activities	10
4	Dr.C.Cinthia Fernandez, AP (Agrl. Extension)	
	Projects	20
	Teaching	30
	Administration	30
	Other activities	20
5	Dr. K.Sivakumar AP (SS & AC)	
	AICRP	20
	Projects	10
	Teaching	20
	Administration	30
	Other activities	20
6	Dr.K.Ramah, AP (Agronomy)	
	AICRP	20
	Projects	20
	Teaching	30
	Administration	10
	Other activities	20
7	Dr.R.Ravi kumar, AP(Maths)	
	Projects	20
	Teaching	40
	Administration	10
	Other activities	30
8	Dr.S.Sengottaiyan, AP (Tamil	
	Teaching	50
	Administration	20
	Other activities	20

IV. DEPARTMENT OF FOREST PRODUCTS AND UTILIZATION

1. Staff pattern

S. No.	Name	Designation
1	Dr. M. P. Divya	Professor and Head
2	Dr. D. Suresh Kumar	Professor (Agricultural Economics)
3	Dr. K. Baranidharan	Assistant Professor (Forestry)
4	Dr. P. Pretheep Kumar	Assistant Professor (Agricultural Entomology)
5	Dr. M. Tilak	Assistant Professor (Agricultural Microbiology)
6	Dr. A. Sudha	Assistant Professor (Plant Pathology)
7	Dr. R. Ravi	Assistant Professor (Forestry)

2. Remarks on the ongoing Externally Funded / University Research Projects

S. No.	Scheme	Remarks
1.	ICFRE/FCRI/MTP/DFU/2012/R002 Survey Documentation and value addition studies in selected NTFP's of Tamil Nadu" (Dr.R.Revathi)	The project may be closed and the completion report to be submitted to the sponsoring agency
2.	DFO/FCRI/MTP/DFV/2016/R003 Monitoring biodiversity and impact in critical habitats after removal and maintenance of invasive alien species and efficacy of maintenance works in Sathyamangalam Tiger Reserve (Dr.K.Baranidharan)	The project may be continued
3.	FCRI/MTP/FOR/2015/001 Baseline Survey on Biodiversity and Non wood Forest Products of Chitheri Hills of Eastern Ghats (Dr.K.Baranidharan)	The project may be closed and the completion report to be submitted
4.	NRM/MTP/AGM/2015/001 Studies on the diversity of Ectomycorrhizal fungal flora in the Forest college & Research Institute (Dr.M.Tilak)	A proposal may be submitted for the extension of the project for a further period of one year
5.	CARDS / MTP / AEC / 2016 / 001 Value Chain Analysis of Selected NWFP's in Salem Forest Circle (Dr.V.Karthick)	The project may be closed and the completion report to be submitted
6.	CPPS/MTP/ENT/2017/001 Investigation of the termite species infesting live trees (Dr. P. Pretheep Kumar)	The project may be continued
7.	CPPS/MTP/PAT/2017/001 Documentation, loss assessment due to wood decay fungi & management (Dr.A.Sudha)	The project may be continued

3. Action plan (2018 – 2019)

Theme1	Post-harvest Technology of Timber and Non-Timber Forest Products			
Theme Leader	Dr. M. P. Divya, Professor & Head (Dept of Forest Products & Utilization)			
Projects	NRM/MTP/AGM/2015/001 CPPS/MTP/PAT/2017/001 CPPS/MTP/ENT/2017/001			
S. No.	Activity	Name of the Scientist and centre	2018 – 2019	Deliverables / Expected outcome
1	Wood anatomical studies in lesser known tree species	Dr. M. P. Divya Dr. I.Sekar Centre: FC&RI	Wood characterization in Jack and Mango	Suitability for timber and plywood

			Wood characterization in Kapok	Suitability for timber, plywood, pulp and matchwood
2	Wood deterioration studies and their management	Dr. A. Sudha Dr. M. Tilak Dr. P. Pretheep Kumar Centre: FC&RI	Loss assessment due to wood decay fungi Inoculum treatment in nursery with isolated ECM fungi Feeding rate of termite species on the wood block of susceptible trees	Development of Integrated Management package
3	Value addition of gum from trees grown in farm lands	Dr.R.Ravi Centre: FC&RI	Development of value added products from tree gum	New value added product (gum powder) from tree gum
4	Valuation of Ecosystem services	Dr. D. Suresh Kumar Dr. M. P. Divya Centre: FC&RI	Developing methodologies and framework for valuation of different ecosystems	Improved methodologies including framework and indicators for ecosystem valuation
Theme2	Wildlife Habitat Analysis			
Theme Leader	Dr. K. Baranidharan, Assistant Professor (Forestry)			
Projects	DFO/FCRI/MTP/DFV/2016/R003			
S. No.	Activity	Name of the Scientist and centre	2018 – 2019	Deliverables / Expected outcome
1	Corridor assessment of Nilgiri Biosphere	Dr. K. Baranidharan Centre: FC&RI	Corridor assessment in Thengumaragada & Thalamalai area	Existing and New Corridor in Sathyamangalam Tiger Reserve will be identified
2	Habitat Analysis and Evaluation	Dr. K. Baranidharan Centre: FC&RI	Habitat analysis in Thengumaragada & Thalamalai area	Wealth of flora & fauna in Thengumaragada & Thalamalai area

Work Load of each scientist (Theme wise)

Theme 1: Post-harvest Technology of Timber and Non-Timber Forest Products

Theme 2: Wildlife Habitat Analysis

S. No.	Name of the Scientist	Theme 1	Theme 2	Total
(man hours / week)				
1	Dr. M. P. Divya	10	-	10
2	Dr. D. Suresh Kumar	12	-	12
3	Dr. I.Sekar	10	-	10
4	Dr. K. Baranidharan	-	16	16
5	Dr. P. Pretheep Kumar	9	-	9
6	Dr. M. Tilak	10	-	10
7	Dr. A. Sudha	9	-	9
8	Dr. R. Ravi	10	-	10

WORK LOAD OF SCIENTISTS OF THE DEPARTMENT OF FOREST PRODUCTS AND UTILIZATION FOR THE YEAR 2018-19

S. No.	Scientists	% of time
1	Dr. M. P. Divya	
	University Research Project – 1	20
	Teaching	35
	Students guide	20
	Administration	10
	Other activities	15
2	Dr. D. Suresh Kumar	
	University Research Project – 1	20
	Teaching	30
	Students guide	30
	Other activities	20
3	Dr. K. Baranidharan	
	University Research Project – 1	20
	Externally Funded Project – 1	20
	Teaching	35
	Students guide	15
	Other activities	10
4	Dr. P. Pretheep Kumar	
	University Research Project – 1	25
	Teaching	30
	Students guide	15
	Other activities	30

5	Dr. M. Tilak	
	University Research Project – 1	25
	Venture Capital Scheme	15
	Teaching	25
	Students guide	15
	Other activities	20
6	Dr. A. Sudha	
	University Research Project – 1	25
	Teaching	30
	Students guide	20
	Other activities	25
7	Dr. R. Ravi	
	University Research Project – 1	15
	Teaching	25
	Students guide	10
	Other activities	50

V. DEPARTMENT OF SERICULTURE

1. Staff Pattern

S. No.	Name	Designation
1	Dr.G.Umapathy	Professor and Head
2	Dr.S.V.Krishnamoorthy	Professor (Agricultural Entomology)
3	Dr.K.Uma	Professor (Agricultural Economics)
4	Dr.K.Angappan	Professor (Plant Pathology)
5	Dr.D.Vijayalakshmi	Assistant Professor (Plant Physiology)
6	Dr.K.A.Murugesh	Assistant Professor (Sericulture)
7	Dr.M.ShanthaSheela	Assistant Professor (Agrl.Extension)
8	Dr.R.Jayaramsoundari	Assistant Professor (Agronomy)
9	Dr.P.Priyadharshini	Assistant Professor (Sericulture)
10	Dr.S.Susikaran	Assistant Professor (Sericulture)
11	Dr.R.Shanmugam	Assistant Professor (Sericulture)
12	Dr.P.Mangammal	Assistant Professor (Sericulture)
13	Dr.R.Rajeswari	Assistant Professor (SS&AC)

2. Remarks on the ongoing University Research Projects

Department of Sericulture

S. No.	Scheme	Remarks
1.	CPPS/MTP/SER/2016/001 An economic analysis of cocoon production in traditional and non traditional sericulture areas of Tamil Nadu (Dr.S.Susikaran)	The project may be continued
2.	CPPS/MTP/SER/2016/001: 429 Effect of probiotics on growth and development of silkworm, <i>Bombyx mori</i> L. (Dr.P.Priyadharshini)	The project may be continued
3.	CPPS/MTP/SER/2017/001: 428 Value addition to Mulberry Silkworm Rearing Waste and their impact on both Mulberry and Silkworm (Dr.R.Shanmugam)	The project may be continued
4	CPPS/MTP/SER/2017/001: 497 Effect of minerals on growth and development of silkworm, <i>Bombyx mori</i> L. and their impact influence on cocoon economic traits (Dr.K.A.Murugesh)	The project may be continued

Theme1		Host plant production and management			
Theme Leaders		Dr.S.V.Krishnamoorthy Dr.K.Angappan			
S. No.	Activity	Name of the Scientist and centre	2018 – 2019		Deliverables / Expected outcome
1	Assembling and evaluation of genetic resources of mulberry	Dr.R. Jayaramasoundari Dr.R. Rajeswari Dr.P. Mangammal Dr.D. Vijayalakshmi	Developing intercropping model in mulberry Enhancing leaf yield potential of mulberry through low cost soil amendments Effect of different mutagens on morphological and growth parameters of mulberry Role of weather parameters on the yield attributes of mulberry		Suitability of mulberry clones under Tamil Nadu condition for silkworm hybrids will be identified.
Theme 2: Silkworm production and management					
1	Effect of probiotics on growth and development of silkworm, <i>Bombyx mori</i> L. "	Dr.P.Priyadharshini	To study the impact of probiotics on enzyme activity of silkworm races. To enumerate and identify the indigenous gut microbial population.		Economic traits of silkworm will be improved

2	Effect of minerals on growth and development of silkworm, <i>Bombyx mori</i> L. and their impact influence on cocoon economic traits	Dr.K.A.Murugesh	Studying the effects of mineral combination on cocoon and silk related traits. Analysing the protein content in silk gland and cocoon	Increase in cocoon quality and yield
3	Evaluation of different eco-races of eri silkworm	Dr. S. Susikaran Dr.P. Mangammal	To evaluate the different eco-races of eri silkworm	Suitable eri-silkworm will be identified
Theme 3 Value addition in Sericulture				
1	Value addition to Mulberry Silkworm Rearing Waste and their impact on both Mulberry and Silkworm	Dr.R.Shanmugam	To study the impact of seriwaste-compost on mulberry leaf yield and silkworm economic traits. To assess the physio-chemical and biological properties of seri waste applied soil	Increase of mulberry leaf yield and silkworm economic traits

Load of each scientist (Theme wise)

Department of Sericulture

Theme 1: Host plant production and management

Theme 2: Silkworm production and management

Theme 3: Value addition in Sericulture

Sl. No.	Name of the scientist	Theme 1	Theme 2	Theme 3	Total
(Man hours / week)					
1	Dr.G.Umapathy	5			5
2	Dr.S.V.Krishnamoorthy	10			10
3	Dr.K.Uma		8		8
4	Dr.K.Angappan	10			10
5	Dr.D.Vijayalakshmi	5			5
6	Dr.K.A.Murugesh		12		12
7	Dr.M.ShanthaSheela		5		5
8	Dr.R.Jayaramsoundari	5			5
9	Dr.P.Priyadharshini		8	4	12

10	Dr.S.Susikaran		12		12
11	Dr.R.Shanmugam			12	12
12	Dr.P.Mangammal		12		12
13	Dr.R.Rajeswari	3			3

WORK LOAD OF SCIENTISTS

S. No.	Scientists	% of time
1	Dr.G.Umapathy	
	Teaching	15
	Students guide	25
	Administration	50
	Other Activities	10
2.	Dr.S.V.Krishnamoorthy	
	Teaching	30
	Research & Student's guidance	30
	Additional Responsibilities	20
	Administration	20
3.	Dr.K.Uma	
	Teaching	30
	Students guide	40
	Additional Responsibilities	15
	Other Activities	15
4.	Dr.K.Angappan	
	Teaching	30
	Research & Student's guidance	40
	Additional Responsibilities	25
	Other Activities	5
5.	Dr.D.Vijayalakshmi	
	Ext. funded projects	50
	Teaching	15
	Students guide	20
	Other Activities	15
6.	Dr.K.A.Muruges	
	Univ. Sub Project-1	25
	Teaching	30
	Students guide	20
	Other Activities	25
7	Dr.M.ShanthaSheela	
	Teaching	30
	Students guidance	30
	Additional Responsibilities	15
	Other activities	25

8.	Dr.R.Jayaramsoundari	
	Teaching	50
	Other activities	50
9.	Dr.P.Priyadharshini	
	Univ. Sub Project-1	25
	Teaching	50
	Additional Responsibilities	25
10.	Dr.S.Susikaran	
	Univ. Sub Project-1	25
	Teaching	50
	Other Activities	25
11.	Dr.R.Shanmugam	
	Univ. Sub Project-1	25
	Teaching	50
	Other Activities	25
12.	Dr.P.Mangammal	
	Univ. Sub Project-1	25
	Teaching	50
	Other Activities	25
13.	Dr.R.Rajeswari	
	Ext.funded projects	45
	Teaching	45
	Other Activities	10