PROCEEDINGS OF 27th SCIENTISTS MEET ON FORESTRY, BIOFUEL & SERICULTURE - 2017, HELD AT TAMIL NADU AGRICULTURAL UNIVERSITY, COIMBATORE, ON 18.5.2017 AND 19.5.2017

The 27th Scientists meet on Forestry, Biofuel and Sericulture 2017, was held on 18.5.2017 and 19.5.2017 at the University Seminar hall, Tamil Nadu Agricultural University, Coimbatore, with a view to review the ongoing research projects in Forestry, Biofuel and Sericulture and to finalize the action plan for 2017-2019. A pre-review meeting was conducted on 18.5.2017 to review the ongoing research projects. Dr. K. K. Suresh, Dean, FC & RI, reviewed the progress of the research projects pertaining to forestry and biofuel and Dr. K. Ramaraju, Director, CPPS, reviewed the projects related to Sericulture.

On 19.5.2017, Dr. M. Maheswaran, Director of Research, TNAU, Coimbatore, welcomed the gathering and emphasized the importance of integrated approach in formulating research projects. Dr. C. R. Anandakumar, Registrar, TNAU, Coimbatore, offered his suggestions for streamlining the research projects based on the department perspective. Dr. K. K. Suresh, Dean, FC & RI, presented the action taken on the recommendations of the previous crop scientist meet. Research highlights were presented by Dr. K. Kumaran, Professor & Head, Department of Tree Breeding, Dr. A. Balasubramanian, Professor & Head, Department of Silviculture, Dr. K.T. Parthiban, Professor & Head, Department of Agroforestry and Nodal Officer (in-charge), Centre of Excellence in Biofuels, and Dr. R. Revathi, Professor & Head, Department of Forest Products & Utilization. Action plan for 2017-2019 was presented by Dr. K. K. Suresh, Dean, FC & RI for Forestry. Dr. K. Angappan, Professor (Sericulture) presented the research highlights and action plan for 2017-2019 for Sericulture. Dr. M. Maheswaran, Director of Research, TNAU, Coimbatore, proposed the vote of thanks and suggested that research on invasive species to be strengthened; Further, he added that importance should be given for basic research related to indigenous tree species and suggested that a catalogue of all available tree species should be prepared for all campus other than FC & RI.

Proceedings of 27^{th} Scientists Meet on Forestry, Biofuel and Sericulture - 2017, are presented in the following order.

- 1) Staff Pattern
- 2) Remarks on the individual University Research Projects
- 3) Action Plan: 2017-2019
- 4) Work load of each scientist (Theme wise)

Staff Pattern of Forestry

			Discipline																	
Station	Designation	F OR	P BG	A GR	S SST	E NT	P AT	Mi cro	E NS	S	E X T	N E M	E co		F P E	A H	M A t	T A m	A	Tota
FC&RI, Mettupalayam	Professor	6	-	1	1															8
	Assc. Professor		-			1		-	1											2
	Asst. Professor	6	2	1	-	1	1	1	-	1	1	1	1	1	1	1	1	1	1	22
Out stations																				
AC&RI, Coimbatore	Professor	1																		1
AC&RI, Madurai	Assc. Professor	1																		1
AC&RI, Kudumiyanmalai	Assc. Professor	1																		1
AC&RI Killikulam	Asst. Professor	1																		1
AC&RI, Vazhavachanallur	Asst. Professor	1																		1
AC&RI, Echenkottai	Asst. Professor	1																		1
AC&RI, Athianthal	Asst. Professor	1																		1
	Asst. Professor	1																		1
	1				1													To	tal	40

Staff Pattern of Sericulture

Station	Designation	ENT	PAT	ECO	SER	AGR	SS	CRP	EX T	Total
FC&RI,	Professor	2	1	1	-	-	-	-		4
Mettupalayam	Assc. Professor	-	-	-	1	-	-			1
	Asst. Professor	-	-	-	4	1	1	1	1	8
	•		-		-		•		Total	13

I. DEPARTMENT OF TREE BREEDING

1. Staff Pattern

S.	Name	Designation
No.		
1	Dr.K.Kumaran	Professor and Head
2	Dr. M.K.Shivaa	Professor (Forestry)
3	Dr. P.R. Renganayaki	Professor (Seed Science and Technology)
4	Dr. P.S.Devanand	Assistant Professor (Plant Breeding and Genetics)
5	Tmt. S.Sridevy	Assistant Professor (Computer Science)
6	Dr. M.Umadevi	Assistant Professor (Plant Breeding and Genetics)
7	Dr.P.G.Kavitha	Assistant Professor (Plant Nematology)
8	Dr. S.Venilla	Assistant Professor (Forestry)

II. Remarks on the ongoing University Research Project

S. S								
Project Number	Remarks							
rnally Funded Projects								
TANII/ FCRI/ MTP/DTB/ 2016/ R004	The Project may be continued							
Promotion, commercialization, post	:-							
harvest processing and industria	1							
application of Annatto (Bixa orellena L.								
as a source of natural dye								
(PI: Dr.K.Kumaran)								
EID/FCRI/MTP/DTB/2017/R005								
Screening of neem genetic resource fo	r							
higher azadirachtin content								
establishment of field gene bank and	d							
industrial plantations								
(PI: Dr.K.Kumaran)								
versity Research Projects								
SEED/MTP/SST/2016/001:	The project is completed and the							
Studies on seed germination	completion report to be sent to the							
enhancement in Pterocarpus	Director of Research, TNAU, Coimbatore							
santalinus- red sanders	for approval.							
(Dr.P.R.Renganayaki)	New project may be proposed							
	rnally Funded Projects TANII/ FCRI/ MTP/DTB/ 2016/ R004 Promotion, commercialization, post harvest processing and industria application of Annatto (<i>Bixa orellena</i> L. as a source of natural dye (PI: Dr.K.Kumaran) EID/FCRI/MTP/DTB/2017/R005 Screening of neem genetic resource for higher azadirachtin content establishment of field gene bank and industrial plantations (PI: Dr.K.Kumaran) ersity Research Projects SEED/MTP/SST/2016/001: Studies on seed germination enhancement in <i>Pterocarpus santalinus</i> — red sanders							

4.	FCRI/MTP/FOR/2015/002:	The project may be continued. As the					
	Establishment of an arboretum of rare	existing project leader					
	and characteristic species of Western	Dr.S.UmeshKanna was transferred, the					
	Ghats	new project leader will be identified					
5.	CPBG/MTP/PBG/2016/001:	The project may be closed as the M_1					
	Evolving and genetic characterization						
	of thorn less Caesalpina sappan	A new project may be proposed for					
	through mutation breeding	assemblage and evaluation of Caesalpinia					
	(Dr.P.S.Devanand)	sappan					
	CPBG/MTP/PBG/2017/001:	The project may be continued					
6.	Studies on reproductive biology of						
0.	Annatto (<i>Bixa orellana</i> L.)						
	(Dr. M.Umadevi)						
	CPPS/MTP/NEM/2017/001:	The project may be continued					
7.	Characterization of host suitability of						
	Annato, (Bixa orallana L.) to plant-						
	parasitic nematodes						
	(Dr.P.G.Kavitha)						
	AECRI/MTP/COM/2016/001						
8.	Forest College and Research Institute	The project may be continued					
0.	Education Management Information						
	System (Tmt.S.Sridevy)						

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

III. Theme wise future action plan (from 2017 – 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

Ther	ne 1	Collection and Ass	emblage of the germplasm o	f prioritized tree species				
Ther	ne Leader	Dr.K.Kumaran,						
		Professor and Head	, Department of Tree Breeding	g, FC&RI, Mettupalayam				
Ong	oing projects	1. FCRI/MTP/FOR	/2015/002 (URP)					
			TP/DTB/ 2016/ R004 (Externa	•				
			DTB/2017/R005 (Externally f	unded)				
		4. CPBG/MTP/PBC	` /					
		5. AICRP/FOR/MTP/FOR/002						
S.		Name of the						
No.	Activity	Scientist and	2017 - 18	2018 - 19	Expected outcome			
110.		Centre						
1	Collection and	Dr.K.Kumaran	Collection and assemblage	Establishment of Progeny	Field gene bank of Annatto			
	Assemblage of	FC & RI,	of germplasm of	Evaluation Trials in	with high bixin			
	germplasm	Mettupalayam	1.Bixa orellana	1.Bixa orellana				
		2. Azadirachta indica 2. Azadirachta indica Field gene bank of Neem						
					with high oil and			
					azadirachtin			
2		Dr.P.S.Devanand	Collection and assemblage	Establishment of Progeny	Field Gene Bank of			
		FC & RI,	of germplasm of	Evaluation Trials in	Caesalpinia sappan and			
		Mettupalayam	1.Caesalpinia sappan	1.Caesalpinia sappan	seed bank of Amaranthus			
			2. Amaranthus spp	2. Amaranthus spp	spp.			
3		Dr.S.Umeshkanna	Collection and assemblage	Collection and assemblage	Contribution to the			
3		AC&RI, Madurai	of germplasm of	of germplasm of	collection of germplasm in			
		ACCINI, Madurar	1.Azadirachta indica	1.Azadirachta indica	the identified species			
			2. Caesalpinia sappan	2. Caesalpiniasappan	the identified species			
			2. Сисьигрини виррин	2. Засынринизиррин				
4		Dr.P.Rajendran	Collection and assemblage	Collection and assemblage	Contribution to the			
		AC&RI,	of germplasm of	of germplasm of	collection of germplasm in			
		Kudumiyanmalai	1.Azadirachta indica	1. Pterocarpus marsupium	the identified species			

5	Dr.P.Kumar AC&RI Killikulam	Collection and assemblage of germplasm of 1.Azadirachta indica 2. Pterocarpus marsupium	Establishment of Progeny Evaluation Trials in 1.Bixa orellana 2. Pterocarpus marsupium	Establishment of field gene bank of <i>Bixa orellana</i> & <i>Pterocarpu smarsupium</i>
6	Dr.M.Kiruba AC&RI Vazhavachanallur	Collection and assemblage of germplasm of 1.Bixa orellana 2. Azadirachta indica	Establishment of Progeny Evaluation Trials in Bixa orellana	Field gene bank of Annatto with high bixin
7	Dr.P.G.Kavitha FC & RI, Mettupalayam	Screening of assembled germplasm for nematodes	Development of management practices for the dominant nematodes	Nematode free germplasm of assembled species
8	S.Sridevy FC & RI, Mettupalayam	Development database modules for documentation of the assembled germplasm	Development web/mobile app for database of assembled germplasm	Digital documentation of all the assembled germplasm

Theme 2		Reproductive bi	ology studies in the identified tree species						
Theme Lea	ader	Dr.M.Umadevi							
Project No. CPBG/MTP/PB			5/2017/001(URP)						
		Name of the							
S. No.	Activity		Activity		Scientist and	ientist and 2017 - 2018		Expected outcome	
			Centre						
1.	Floral and reproductive biology of Bixa orellana, Kigelia pinnata and Azadirachta indica		Dr.M.Umadevi FC&RI,	Observation on different floral and	Phenological and maturation	Basic information of the reproductive			
			Mettupalayam	reproductive characters	studies	behavior of the identified species			

E-documentation of the phenology and reproductive systems of the identified species	Tmt. S.Sridevy FC & RI, Mettupalayam	Development database modules for documentation of the floral and reproductive characters	Development web/mobile app for database of floral and reproductive characters	E-documentation of all the floral and reproductive characters
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Them	Theme 3 Genetic Improvement and Varietal Development in Bixa orellana									
Them	e Leader	Dr.K.Kumaran								
Projec	et No.	TANII/ FCRI/ MTP/DTB/ 2016/ R004 (Externally funded)								
S. No.	Activity	Name of the Scientist and centre	2017 - 18	2018 - 19	Expected outcome					
1.	Varietal development in Annatto(Bixa orellana)	Dr.K.Kumaran FC & RI, Mettupalayam Dr.S.Umeshkanna AC & RI, Madurai Dr. P. Kumar AC & RI, Killikulam Dr. M. Kiruba AC & RI, Thanjavur	Establishing Multi Location Trials for progeny evaluation Establishing Multi Location Trials for progeny evaluation Progeny Evaluation of already established annatto germplasm Establishing Multi Location Trials for progeny evaluation	Continuation of Multi Location Trials for varietal identification	A promising variety with higher bixin content will be screened and released					
		Dr.P.G.Kavitha FC & RI, Mettupalayam	Screening of annatto for nematodes	Development of management practices for the dominant nematodes	Nematode free annatto variety					

Theme 4	1	Developm	ent of minimum certific	cation standards and pro	pagation protocol fo	r mass multiplication		
Theme 1	Leader	Dr.P.R.Rei	nganayaki	•		•		
Project 2	No.		CRI/ MTP/DTB/ 2016/ R004 (Externally funded) /MTP/DTB/2017/R005 (Externally funded)					
S. No. Activity			Name of the Scientist and Centre	2017 - 18	2018 - 19	Expected outcome		
1.	Development of seedling standar identified specie	ds for the	Dr.P.R.Renganayaki FCRI, Mettupalayam	Developing Seed and seedling standards for Bixa orellana Azadirachta indica Santalum album	Developing Seed and seedling standards for Bixa orellana Azadirachta indica Santalum album	Minimum seed and seedlings certification standards for four species		
2	Standardizing the propagation prof		Dr.S.Vennila FCRI, Mettupalayam	Standardizing vegetative (miniclonal) propagation for neem annatto	Standardizing vegetative (miniclonal) propagation for Red sanders and Sandal	Clonal propagation technique for mass multiplication		

Theme wise work load (research) of the scientist and individual scientist work load (Teaching, Research, Student guidance and other activities)

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

S.No.	Name of the	The	emes (man	hours/ wee	ek)	- Total	
5.110.	Scientist	1	2	3	4	Total	
1	Dr.K.Kumaran	10	-	10	-	20	
2	Dr. P.R. Renganayaki	-	-	-	15	15	
3	Dr. Devanand	10	-	-	ı	10	
4	Dr. M.Umadevi	-	20	-	-	20	
5	Dr.P.G.Kavitha	10	-	10	-	20	
6	Dr. S.Vennilla	-	-	-	20	20	
7.	Dr. S.Sridevy	10	10	-	-	20	

Work load of individual scientists for 2017 – 18

S.No.	Scientists	% of time
1.	Dr. K.Kumaran	
	University Research Project	20
	(Theme area)	
	Externally Funded Project (PI)	20
	Venture Capital Scheme	-
	Teaching	20
	Students guide	10
	Administration	20
	Additional Responsibility	10
2	Dr. P.R.Renganayaki	
	University Research Project and theme area	20
	Externally Funded Project (Co-PI)	15
	Venture Capital Scheme	-
	Teaching	20
	Students guide	20
	Administration	-
	Additional Responsibility	25

4	Dr. P.S.Devanand	
	University Research Project and Theme area	25
	Externally Funded Project – 3	30
	Venture Capital Scheme	20
	Teaching	20
	Students guide	5
	Administration	-
	Additional Responsibility	-
5	Dr. M.Umadevi	
	University Research Project and theme area	30
	Externally Funded Project – 2 (Co-PI)	20
	Venture Capital Scheme	-
	Teaching	25
	Students guide	5
	Administration	-
	Additional Responsibility	20
6	Dr. P.G.Kavitha	
	University Research Project – 1 and theme	30
	area	
	Externally Funded Project – 2 (Co-PI)	30
	Venture Capital Scheme	_
	Teaching	10
	Students guide	5
	Administration	-
	Additional Responsibility	25
7	Dr. S.Vennilla	
	University Research Project – 1 and theme	30
	area	
	Externally Funded Project	10
	Venture Capital Scheme	_
	Teaching	30
	Students guide	5
	Administration	
	Additional Responsibility	25
8	Dr. S.Sridevy	
	University Research Project and theme area	30
	Externally Funded Project -1 (Co-PI)	10
	Venture Capital Scheme/Self supporting	20
	Teaching	10
	Students guide	5
	Administration	-
	Additional Responsibility	25

II. DEPARTMENT OF SILVICULTURE

1. Staff pattern of the Department

S. No.	Name	Designation
1	Dr. A. Balasubramanian	Professor and Head
2	Dr. K.K. Suresh	Professor (Forestry)
3	Dr. M. Suganthy	Associate Professor (Agrl.Entomology)
4	Dr. M. Prasanthrajan	Associate Professor (Envi. Sciences)
5	Dr. S. Radhakrishnan	Assistant Professor (Forestry)
6	Mrs. M. Vijayabhama	Assistant Professor (Statistics)
7	Dr. S. Manivasakan,	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.	Title of the Externally Funded Projects	Project Leader	Remarks
No.			
1	Vision carbon neutral: A joint initiative	Dr. A. Balasubramanian	To project may
	for promotion of carbon neutral		be continued
	schools/institutions		
	CII/FCRI/MTP/DOS/2013/R001		
2	ICAR fully funded project on harvesting,	Dr. A. Balasubramanian	To project may
	processing and value addition of natural		be continued
	resins and gums – Tamarind seed gum		
	IINRG/FCRI/MTP/DOS/2014/R002		
3	Developing yield table for few fast	Dr. A. Balasubramanian	To project may
	growing tree species grown in farm		be continued
	settings		
	TNFD/FCRI/MTP/DOS/2016/F36NF		
4	Utilization of treated domestic sewage	Dr. S. Radhakrishnan	To project may
	water for wood production by afforesting		be continued
	fast growing species		
	DoETN/FCRI/MTP/DOS/2014/R003		

b) University Research Project

S.	Title of the URP	Project Leader	Remarks
No.			
1	Fertigation Scheduling - A Research Initiative for Commercial Cultivation of Trees NRM/MTP/SAC/2015/001	Dr.R.K.Kaleeswari	To project may be continued
2	Development of biofloating technology for the odour management in sewage water NRM/MTP/ENS/2016/001	Dr.M.Prasanthrajan	To project may be continued
3	Studies of water requirement of Red sanders (<i>Pterocarpus santalinus</i>) at early stages of growth FCRI/MTP/FOR/2017/001	Dr. S. Radhakrishnan	To project may be continued
4	Effect of different pruning intensities on growth performance of <i>Dalbergia sissoo</i> FCRI/MTP/FOR/2017/002	Dr.S.Manivasakan	To project may be continued

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

4. Action plan for 2017-2019 on the identified themes :

Theme	No. 1	Production Silviculture					
Project	ts	TNFD/FCRI/MTP/DOS/2016/F36NF					
NRM/MTP/SAC/2015/001							
		FCRI/MTP/FOR/2017	/002				
Theme	Leader	Dr. A.Balasubraman	ian				
			Name of the Scientist				
			and centre along with			Deliverables/	
S.No.		Activity	man hours	Year 2017-18	Year 2018-19	expected out come	
1	Developi	ing certification	Dr. K.K.Suresh	Seed standards	Standards for	Certification	
	standards	s for producing quality	(15 h / week)		nursery	standards for seeds,	
	planting	stock	Dr. P.R.Renganayagi	Seedling and clonal		seedlings, clones	
			(3 h / week)	standards		and nursery will be	
			Dr. M.Sivaprakash			developed for	
			(3 h / week)			production of	
			Dr. S.Manivasakan			quality planting	
			(5 h / week)			stocks	
			Dr. B.Siva Kumar				
			(3 h / week)				
2	Developi	ing micro irrigation	Dr. R.K.Kaleeswari	Scheduling water	Standardization of	Fertigation and	
	and fertil	izer schedule	(3 h / week)	requirement	site specific	irrigation schedules	
			Dr. S.Radhakrishnan	100 % PE, 125 % PE	fertigation	for intensive tree	
			(2 h / week)	and 150 % PE	schedule	farming suitable to	
			Dr. K.Sivakumar			fast growing trees	
			(3 h / week)	Biofertilizers and	Soil test based	will be developed	
			Dr. M.Tilak	productivity	fertigation levels	under high density	
			(3 h / week)	assessment		and high input	
					Developing	plantation for	

3	Standardization of silvicultural	Du C Maninosakar	Cassing (HDCD	biofertilizers including liquid fertilizers for trees	higher productivity Silvicultural
3	operations of silvicultural	Dr. S.Manivasakan (5 h / week) Dr. M.Sivaprakash (3 h / week) Dr. R.Ravi (3 h / week) Dr.P.Chitra	Spacing (HDSR techniques) Canopy management Root management	Thinning and Pruning	management practices suitable for intensive tree farming will be developed
		(15 h / week)			
4	Pest and disease management	Dr. K.Angappan (3 h / week) Dr. M.Suganthy (15 h / week) Dr. P.Rajendran (3 h / week) Dr. P.Pretheep Kumar (5 h / week) Dr. P.G.Kavitha (3 h / week)	Assessment of pest and disease surveillance Biological control of pest and diseases Promotion of entomophilous pollination in plantations	Integrated pest and disease management	Pest and disease surveillance monitoring system will be developed. Pest and disease management practices including IPM techniques will be standardized for tree plantations developed with precision silvicultural farming.
5	Yield assessment and developing yield tables	Dr. A.Balasubramanian	Growth assessment	Developing local yield tables and	Locality and species specific

(10 h / week)	Volume estimation	yield models	yield table and
Dr. S.Radhakrishnan			yield model will be
(3 h / week)	Yield assessment		developed for
Tmt.M.Vijayabhama			common farm
(5 h / week)			grown tree species.
Dr. S.Manivasakan			
(5 h / week)			
Dr. R.Ravikumar			
(3 h / week)			

Theme	No. 2	Conservation Silviculture				
Project	Projects FCRI/MTP/FOR/2017/001					
IINRG/FCRI/MTP/DOS/2014/R002						
Theme	Leader	Dr. S.Radhakrishnan				
			Name of the Scientist and			
			centre along with man			Deliverables/
S.No.		Activity	hours	Year 2017-18	Year 2018-19	expected out come
1	Develop	oing silvicultural	Dr.S.Radhakrishnan	Silvicultural	Silvicultural	Silvicultural
	practice	s for threatened and	(3 h / week)	practices for red	practices for	techniques will be
	endange	ered species for mass	Dr.M.Sivaprakash	sanders	sandal	standardized for
	planting	Ţ	(3 h / week)			important trees like
			Dr.P. Kumar			sandal and red
			(3 h / week)			sanders
2	Docume	enting native species	Dr.S.Radhakrishnan	Survey and	Developing	Tree species that
	erosion	in farm lands and	(2 h / week)	Documentation of	silvicultural	are being over
	commu	nity lands	Dr.M.Sivaprakash	trees grown in	techniques useful	exploited will be
			(2 h / week)	farm lands of	for species	documented and
				Tamil Nadu	recovery and	specific

		Dr.R.Ravi	Assessing the	protection with	management
		(3 h / week)	exploitation level	respect to trees	practices for the
			of different farm	that are over	promotion of such
			grown trees	exploited	species will be
					developed
3	Promoting mass planting	Dr.S.Umesh Kanna	Creating	Promoting mass	Mass planting
	through development of	(3 h / week)	awareness on	planting of over	programme will be
	modern silvicultural practices	Dr.S.Radhakrishnan	protection of over	exploited and	effected through
		(2 h / week)	exploited and	endangered	Government
		Dr.S.Manivasakan	endangered	species by	programme, Private
		(5 h / week)	species	involving	- Public partnership
		Dr.R.Ravi		government and	approach
		(2 h / week)		non governmental	
				agencies	
4	Developing tree gum garden	Dr.S.Radhakrishnan	Assembling trees	Tree gum garden	Potential trees that
		(3 h / week)	of local	will be developed	are suitable for gum
		Dr.M.Sivaprakash	importance		extraction on
		(3 h / week)	having potential		commercial scale
		Dr. M. Kiruba	for gum yield		will be promoted
		(3 h / week)			
		Dr. B. Sivakumar			
		(3 h / week)			

Theme No. 3	Trees and Pollution Abatement
Projects	CII/FCRI/MTP/DOS/2013/R001
	DoETN/FCRI/MTP/DOS/2014/R003
	NRM/MTP/ENS/2016/001
Theme Leader	Dr. M. Prasanthrajan

		Name of the Scientist and centre along with			Deliverables/
S.No.	Activity	man hours	Year 2017-18	Year 2018-19	expected out come
1	Screening of trees for	Dr. M. Prasanthrajan	Screening of	Evaluation of trees	Trees that are
	pollution abatement	(15 h / week)	trees for	for high carbon	suitable for
		Dr. S. Radhakrishnan	pollution	sequestration	different pollution
		(5 h / week)	tolerance	potential	will be screened and
		Dr. M.P. Sugumaran			recommended for
		(3 h / week)	Real-time		planting at field
			ambient air		level.
			quality		
			monitoring		

5. Workload of each Scientist (Theme wise)

Theme 1: Production Silviculture

Theme 2: Conservation Silviculture

Theme 3: Trees and pollution abatement

		Man hours / Week				
S. No.	Name of the scientist	Theme 1	Theme 2	Theme 3	Total	
1	Dr. A. Balasubramanian	10	5	5	20	
2	Dr. K.K. Suresh	15	-	-	15	
3	Dr. M. Suganthy	15	-	-	15	
4	Dr. M. Prasanthrajan	-	-	15	15	
5	Dr. S. Radhakrishnan	5	10	5	20	
6	Mrs. M. Vijayabhama	5	-	-	5	
7	Dr. S. Manivasakan	10	5	-	15	
8	Dr. P. Chitra	15	-	-	15	

WORKLOAD OF SCIENTISTS - DEPARTMENT OF SILVICULTURE (2017-18)

S. No.	Scientists	Percentage of time
1	Dr. A. Balasubramanian	
	University Research Projects	-
	Teaching	25
	Students guidance	25
	Administration	30
	Other activities	20
2	Dr. K.K. Suresh	
	University Research Projects	20
	Teaching	30
	Students guidance	30
	Administration	-
	Other activities	20
3	Dr. M. Suganthy	
	University Research Projects	20
	Teaching	40
	Students guidance	20
	Administration	-
	Other activities	20
	Dr. M. Prasanthrajan	

Teaching	4	University Research Projects	20
Administration		Teaching	40
Other activities 20 5 Dr. S. Radhakrishnan University Research Projects 20 Teaching 40 Students guidance 20 Administration - Other activities 20 Teaching 50 Students guidance 20 Administration - Other activities 10 7 Dr. S. Manivasakan University Research Projects 20 Teaching 30 Students guidance 20 Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10		Students guidance	20
Dr. S. Radhakrishnan		Administration	-
University Research Projects 20		Other activities	20
University Research Projects 20			
Teaching	5	Dr. S. Radhakrishnan	
Students guidance 20		University Research Projects	20
Administration		Teaching	40
Other activities 20 6 Mrs. M. Vijayabhama University Research Projects 20 Teaching 50 Students guidance 20 Administration - Other activities 10 7 Dr. S. Manivasakan University Research Projects 20 Teaching 30 Students guidance 20 Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10		Students guidance	20
6 Mrs. M. Vijayabhama University Research Projects 20 Teaching 50 Students guidance 20 Administration - Other activities 10 7 Dr. S. Manivasakan University Research Projects 20 Teaching 30 Students guidance 20 Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10		Administration	-
University Research Projects 20		Other activities	20
Teaching 50 Students guidance 20 Administration - Other activities 10 7 Dr. S. Manivasakan University Research Projects 20 Teaching 30 Students guidance 20 Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10	6	Mrs. M. Vijayabhama	
Students guidance 20		University Research Projects	20
Administration		Teaching	50
Other activities 10 7 Dr. S. Manivasakan University Research Projects 20 Teaching 30 Students guidance 20 Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10		Students guidance	20
7		Administration	-
University Research Projects 20 Teaching 30 Students guidance 20 Administration - Other activities 30 University Research Projects 20 Teaching 20 Students guidance 10		Other activities	10
Teaching 30 Students guidance 20 Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10	7	Dr. S. Manivasakan	
Students guidance 20 Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10		University Research Projects	20
Administration - Other activities 30 8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10		Teaching	30
Other activities 30 8		Students guidance	20
8 Dr. P. Chitra University Research Projects 20 Teaching 20 Students guidance 10		Administration	-
University Research Projects 20 Teaching 20 Students guidance 10		Other activities	30
Teaching 20 Students guidance 10	8	Dr. P. Chitra	
Students guidance 10		University Research Projects	20
_		Teaching	20
Administration -		Students guidance	10
		Administration	-
Other activities 50		Other activities	50

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.	Ambiply - Inventory, Evaluation and Promotion of Genetic Resources of Tree Species amenable for plywood making in Tamil Nadu	The project may be continued
2.	TNPL - Screening evaluation and improvement of indigenous tree species for Coastal Agroforestry	The project may be continued
3.	ICAR Extramural - Development of High Yielding Short Rotation (HYSR) clones for Industrial Agroforestry	The project is completed and the completion report sent to the sponsoring agency. However the research trials may be continued by utilizing funds from other schemes to identify potential genotypes The already identified culture on <i>Melia</i> (MD 26) may be proposed for release during 2018 The miniclonal technology developed for <i>Melia</i> , <i>Kadam</i> and other species need to be documented through Technology Disclosure Application
4	AICRP on Agroforestry	The project may be continued

	University Sub projects	
5.	Screening and evaluation of shade tolerant fodder crops in <i>Melia dubia</i> based silvipastoral system	The project may be continued
6.	Development of tree based farmer producer organization in the western zone of Tamil Nadu	The project may be continued
7.	Prediction and validation of <i>Melia dubia</i> using non linear mixed effect.	The project may be continued
8.	Consortium of Industrial Agroforestry	The project may be continued

3. Action plan (2017 – 2019)

Theme1	Development of High Yielding Short Rotation (HYSR) clones amenable for							
	multifunctio	nal agroforestry sys	stems					
Theme	Dr.K.T.Parth	iban, Professor (Fore	stry					
Leader								
S. No.	Activity	Name of the	2017 - 2018	2018 – 2019	Deliverable			
		Scientist and			s / Expected			
		centre along with			outcome			
		man hours						
1	Developme	Dr.K.T.Parthiban,	Inventory of	Characterizati				
	nt of	Professor	new tree	on for wood				
	HYSR	(Forestry)	species	quality- Utility				
	clones	(6 hr/week)						
	amenable							
	for	Dr.P.S.Devanand	Development	Development				
	multifuncti	AP (PBG)	of HYSR	of DUS traits				
	onal	(4 hr/week)	clones					
	Agroforest				Promising			
	ry systems	Dr.S.Vennila,	Development		genotypes			
		AP (Forestry	of mass					
		(4 hr/week)	multiplication					
		Centre :FC&RI,	technologies					
		MTP						
		Dr.P.Rajendran						
		ASP (Forestry)						
		(4 hr/week)						
		Centre : AC&RI,						
		Kudumiyanmalai						
		ixudulili yalililalal						

Leader 1 De dev t of Ag	esign and velopmen	Dr.R.Jude Sudhagar, AP(Forestry) (6 hr/week) Dr.M.Murugesh	Timber based Agroforestry model	To be continued	Sustainable models suitable for farm lands
1 De dev t of Ag	velopmen f groforestr	Sudhagar, AP(Forestry) (6 hr/week) Dr.M.Murugesh	Agroforestry model		models suitable for
dev t of Ag	velopmen f groforestr	Sudhagar, AP(Forestry) (6 hr/week) Dr.M.Murugesh	Agroforestry model		models suitable for
t of Ag	f groforestr	AP(Forestry) (6 hr/week) Dr.M.Murugesh	model	continued	suitable for
Ag	groforestr	(6 hr/week) Dr.M.Murugesh			
		Dr.M.Murugesh	D.I. I		farm lands
y r	models	_	D 1 1		rariii ranas
		_	D 1 1		
		D C	Pulpwood		
		Professor	based		
		(Forestry)	Agroforestry		
		(4 hr/week)	model		
		Centre:	Plywood		
		ADAC&RI,	based		
		Trichy	Agroforestry		
		-	model		
		Dr.K.Ramah, AP			
		(Agronomy)	Dendro		
		(6 hr/week)	biomass based		
		Centre: FC&RI,	Agroforestry		
		Mtp	model		
		Dr.P.Kumar AP			
		(Forestry)	Non timber		
		(4 hr/week)	based		
		Centre : AC&RI,	Agroforestry		
		Killikulam	model		
		Dr.			
		M.Sivaprakash			
		AP (Forestry)			
		(4 hr/week)			
		Centre: AC&RI,			
		Kudumiyanmalai			
Theme 3 Tr	ee fodder s	studies and develop	ment of concent	rate feed	
		nar, AP(SS&AC)			
Leader					
1 Tre	ee fodder	Dr.K.Sivakumar	Productivity	Development	Identificatio
stu	idies and	AP(SS&AC)	studies	of feed	n of tree
dev	velopmen	(6 hr/week)		concentrate	fodder
t of	f	Centre: FCRI,	Nutritional		species with
coı	ncentrate	Mettupalayam	quality factors		high fodder
d f	eed	•	- •		productivity
		Dr.B.Siva Kumar,	Anti-		and quality
		AP (Forestry)	nutritional		suitable for

		(4 hr/week)	factors		integration
		l '	Tactors		. •
		Centre: CEM,	D 1 (121)		in
		Thiruvannamalai	Palatability		agroforestry
			studies		systems
		Dr.S.Umesh			
		Kanna, ASP			
		(Forestry)			
		(4 hr/week)			
		Centre : AC&RI,			
		Madurai			
		111000101			
		Dr.R.Jude			
		Sudhagar,			
		AP(Forestry)			
		(4 hr/week)			
		Dr.K.R.Ramesh,			
		AP (Forestry)			
		(4 hr/week)			
		Centre : DARS,			
		Chettinad			
		Chettinaa			
		Dr. Chitra,			
		AP (Animal			
		Husbandry)			
		(4 hr/week)			
		Centre : FCRI,			
		Mettupalayam			
Theme 4	Design and d	levelopment of clim	ate resilient agro	oforestry models	
Theme		Professor (Agronom			
Leader	ĺ	ν υ	3 /		
1	Design and	Dr.P.Shanthi,	Agrisilvicultur		
_	developmen	Professor	e model		
	t of climate	(Agronomy)	e moder		
	resilient		Silvihorticultu		
		(6 hr/week)			
	agroforestry	D., I/D 1	re model		
	models	Dr.K.Ramah	a		
		AP (Agronomy)	Silvipasture		
		(3 hr/week)	model		
					Climate
			Carbon		resilient
		Dr.M.Prasanthraja	sequestration		agroforestry
		n,	studies	Studies to be	models will
		ASP (Env.		continued	be
		Science)	Impact		developed
		(3 hr/week)	studies- soil		1
		,	and		
	1	L	******	<u> </u>	<u> </u>

		Dr. K.Sivakumar AP (SS & AC) (4 hr/week) Dr.R.Ravi Kumar, AP(Maths) (4 hr/week) Centre: FCRI,Mtp	environment		
Theme 5	-	ies (Productivity, Pr	ofitability, Socio	-economic and	
	Environmen				
Theme	Dr.C.Cinthia	Fernandaz, AP (Agrl	l. Extension)		
Leader	_	I =	T =	T	
1	Impact	Dr.C.Cinthia	Productivity		Agroforestry
	studies	Fernandaz,	impact	To be	models with
		AP (Agrl.		continued	high impact
		Extension)			on the
		(6 hr/week)	Profitability impact		profitability and socio-
		Dr. V.Karthick,	1		economic
		AP (Agrl.	Socio-		fronts
		Economics)	economic		
		(3 hr/week)	impact		
		Dr. P. Balaji,	Environmental		
		AP (ARM)	and social		
		(3 hr/week)	safeguard		
		Dr.S.Sengottaiyan			
		AP (Tamil)			
		FC&RI,MTP (3			
		hrs/week)			

Load of each scientist (Themewise)

S.no	Name of the scientist	Theme	Theme	Theme	Theme	Theme	Total		
		1	2	3	4	5			
	Manhours/week								
1	Dr.K.T.Parthiban, Professor (Forestry)	6	-	-	-	-	6		
2	Dr.P.Shanthi, Professor (Agronomy)	-	-	-	6	-	6		
3	Dr.R.Jude Sudhagar, AP(Forestry)	-	6	4	1	-	10		
4	Dr.C.Cinthia Fernandaz,	-	-	-	-	6	6		

	AP (Agrl. Extension)						
5	Dr. K.Sivakumar AP	-	_	6-	4	-	10
	(SS & AC)						
	Dr.K.Ramah, AP	-	6	-	3	-	9
6	(Agronomy)						
7	Dr.R.Ravi kumar, AP(Maths)	-	-	-	4	-	4
8	Dr.S.Sengottayan, AP (Tamil)	-	-	-	-	3	3
9	Dr.P.Rajendran ASP (Forestry)	4	-	-	-	-	4
10	Dr.P.S.Devanand AP (PBG)	4	-	-	-	-	4
11	Dr.S. Vennila, AP (Forestry)	4	-	-	-	-	4
12	Dr.M.Murugesh Professor (Forestry)	-	4	-	-	-	4
13	Dr.P.Kumar AP (Forestry)	-	4	-	-	-	4
14	Dr. M.Sivaprakash, AP (Forestry)	-	4	-	-	-	4
15	Dr.S.Umesh Kanna, ASP (Forestry)	-	-	4	-	-	4
16	Dr.B.Siva Kumar, AP (Forestry)	-	-	4		-	4
17	Dr.K.R.Ramesh, AP (Forestry)	-	-	4	-	-	4
18	Dr.P.Chitra, AP (Animal Husbandry)	-	-	4	-	-	4
19	Dr.M.Prasanthrajan, ASP (Env. Science)	-	-	-	3	-	3
20	Dr. V.Karthick, AP (Agrl. Economics)	-	-	-	-	3	3
21	Dr. P. Balaji, AP (ARM)	-	-	-	-	3	3
22	Dr.S.Sengottaiyan, AP (Tamil)	-	-	-	-	3	3

WORK LOAD OF SCIENTISTS (AGROFORESTRY) FOR THE YEAR 2017-18

S.No	Name of the Scientist	% of time
1	Dr.K.T.Parthiban,	
	Professor and Head (Forestry)	
	Projects	30
	Teaching	25
	Students guide	15

	Administration	20			
	Other activities	10			
2	Dr.P.Shanthi,				
	Professor (Agronomy)				
	Teaching	50			
	Students guide	-			
	Administration	-			
	Other activities	50			
3	Dr.R.Jude Sudhagar , AP(Forestry)				
	AICRP	30			
	Projects	20			
	Teaching	30			
	Students guide	15			
	Administration	-			
	Other activities	5			
4	Dr.C.Cinthia Fernandaz,				
	AP (Agrl. Extension)				
	Projects	30			
	Teaching	40			
	Administration	-			
	Other activities	30			
5	Dr. K.Sivakumar				
	AP (SS & AC)				
	AICRP	30			
	Projects	-			
	Teaching	45			
	Administration	-			
	Other activities	25			
6	Dr.K.Ramah, AP (Agronomy)				
	AICRP	30			
	Projects	_			
	Teaching	40			
	Administration	-			
	Other activities	30			
7	Dr.R.Ravi kumar , AP(Maths)				
	Projects	30			
	Teaching	60			
	Administration				
	Other activities	10			
8	Dr.S.Sengottaiyan, AP (Tamil				
	Teaching	70			
	Administration				
	Other activities	30			

IV. DEPARTMENT OF FOREST PRODUCTS AND UTILIZATION 1. Staff pattern

S. No.	Name	Designation
1	Dr. R. Revathi	Professor and Head
2	Dr. K. Baranidharan	Assistant Professor (Forestry)
3	Dr. P. Pretheep Kumar	Assistant Professor (Agricultural Entomology)
4	Dr. M. Tilak	Assistant Professor (Agricultural Microbiology)
5	Dr. A. Sudha	Assistant Professor (Plant Pathology)
6	Dr. V. Karthick	Assistant Professor (Agricultural Economics)
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 is completed and the completion report may be sent 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 continued
4	NRM/MTP/AGM/2015/001 Studies on the diversity of Ectomycorrhizal fungal flora in Forest College and Research Institute, Mettupalayam (Dr.M.Tilak)	The project may be continued
5.	CARDS / MTP / AEC / 2016 / 001 Value Chain Analysis of Selected NWFP's in Salem Forest Circle (Dr.V.Karthick)	The project may be continued
6.	CPPS/MTP/PAT/2017/001 Documentation, loss assessment due to wood decay fungi & management	The project may be continued

3. Action plan (2017 – 2019)

Theme1	Post-harvest Technology of Timber and Non-Timber Forest Products					
Theme	Dr. R. Revathi, Professor & Head (Dept of Forest Products & Utilization)					
Leader						
Projects	NRM/MTP/AGM/2015/001					
3	FCRI/MTP/FOR/2015/001					
	CARDS/MTP/AE	CC/2016/001				
	CARDS/MTP/AR	2M/2016/001				
	CPPS/MTP/PAT/	2017/001				
	CPPS/MTP/ENT/	2017/001				
S. No.	Activity	Name of the Scientist and	2017 - 2018	2018 – 2019	Deliverables /	
		centre along with man			Expected outcome	
		hours			•	
1	Wood	Dr.R.Revathi	Wood physical	Wood anatomical	Suitability for timber,	
	characterization	(4 h / week)	properties.	studies.	plywood, pulp and	
	of lesser known	Dr.R.Ravi	Documentation of	Loss assessment	matchwood.	
	tree species for	(4 h / week)	wood degradation	due to wood		
	commercial	Dr.A. Sudha	(Physical/Chemical	degradation		
	utility	(11 h / week)	/Biological)			
		Dr. P.Pretheep Kumar				
		(9 h / week)				
		Centre: FC&RI				
		Dr. I.Sekar				
		(5 h / week)				
		Centre: HC&RI, Periyakulam				
2	Value addition	Dr. P. Sudha	Utility	Assessment of	Eco-friendly	
	of NTFP	(4 h / week)	standardization of	market potential	consumer product	
		Dr. R. Revathi	the product	of developed	will be made	
		(3 h / week)	developed from	products	available for the	
		Dr. M. Tilak	Dept of FPU		public	
		(8 h / week)				
		Dr. K. Baranidharan				
		(4 h / week)				

3	Value Chain Analysis of Forest products	Dr. R. Ravi (4 h / week) Centre: FC&RI Dr. P. Balaji (4 h / week) Dr. V. Karthick (7 h / week) Centre: FC&RI	Market survey in NTFP and plywood	Assessing the profitability for the tree growers	Identification of commercially viable marketing channel
Theme2	Wildlife Habitat A	<u> </u>			
Theme	Dr. K. Baranidhara	n, Assistant Professor (Forest	rry)		
Leader					
Projects	DFO/FCRI/MTP/D		, , , , , , , , , , , , , , , , , , ,		
S. No.	Activity	Name of the Scientist	2017 – 2018	2018 - 2019	Deliverables /
		and centre along with			Expected outcome
	G 11	man hours	3.6	G 11	T
1	Corridor	Dr. K. Baranidharan	Migratory Path	Corridor assessment	Existing and New
	assessment of	(5 h / week)	analysis in Moyar	in Thengumaragada	Corridor in
	Nilgiri Biosphere	Dr. S. Radhakrishnan	valley	& Thalamalai area	Sathyamangalam
		(2 h / week) Centre: FC&RI			Tiger Reserve will be identified
2	Habitat Amalysia	Dr. K. Baranidharan	Courses of flored	Habitat analysis in	Status of flora &
2	Habitat Analysis and Evaluation	(7 h / week)	Survey of floral and faunal	Habitat analysis in Thengumaragada &	fauna in
	and Evaluation	Dr. S. Radhakrishnan	diversity in	Theligumaragada & Thalamalai area	Thengumaragada &
		(2 h / week)	Thalamalai range	Thalamaiai area	Thalamalai area
		Dr. M.Tilak	Thaiannaian range		i ilalalilalal al ca
		(1 h / week)			
		Mrs.M.Vijayabhama			
		(2 h / week)			
		Centre: FC&RI			

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. R. Revathi	7	-	7
2	Dr. I.Sekar	5	-	5
3	Dr. K. Baranidharan	4	12	16
4	Dr. P. Balaji	4	-	4
5	Dr. P. Pretheep Kumar	9	-	9
6	Dr. M. Tilak	8	1	9
7	Dr. A. Sudha	11	-	11
8	Dr. V. Karthick	7	-	7
9	Dr. R. Ravi	5	-	5
10	Dr. P. Sudha	3	-	3
11	Dr. S. Radhakrishnan	-	4	4
12	Mrs. M. Vijayabhama	-	2	2

WORK LOAD OF SCIENTISTS

S. No.	Scientists	% of time
1	Dr. R. Revathi	
	University Research Project – 1	10
	Externally Funded Project – 2	10
	Venture Capital Scheme	20
	Teaching	25
	Students guide	15
	Administration	10
	Additional Responsibility	10
2	Dr. K. Baranidharan	
	University Research Project – 1	10
	Externally Funded Project – 3	20
	Venture Capital Scheme	10
	Teaching	30
	Students guide	20
	Additional Responsibility	10

3	Dr. P. Pretheep Kumar	
	University Research Project – 1	25
	Teaching	30
	Students guide	15
	Additional Responsibility	30
4	Dr. M. Tilak	
	University Research Project – 1	25
	Venture Capital Scheme	15
	Teaching	25
	Students guide	15
	Additional Responsibility	20
5	Dr. A. Sudha	
	University Research Project – 1	30
	Teaching	30
	Students guide	20
	Additional Responsibility	20
6	Dr. V. Karthick	
	University Research Project – 1	20
	Externally Funded Project – 3	20
	Teaching	25
	Students guide	10
	Additional Responsibility	25
7	Dr. R. Ravi	
	University Research Project – 1	15
	Teaching	25
	Students guide	10
	Additional Responsibility	50

V. CENTRE OF EXCELLENCE IN BIOFUELS

1. Staff Pattern

S. No.	Name	Designation
1	Dr. K.T.Parthiban	Professor and Nodal Officer (i/c)
2	Dr. P.Balaji	Assistant Professor (ARM)
3	Dr.G.Thangamani	Assistant Professor (Microbiology)
4	Dr. P. Sudha	Assistant Professor (Food & Agrl. Process Engineering)

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

S. No.	Scheme	Remarks
1.	CPBG/MTP/PBG/2016/002	As the PI has been transferred,
	Selection of high yielding and high oil content	breeding material with high
	lines from interpecific cross of Jatropha curcas X	yield and oil content may be
	J. integerrima (Dr.P.Jeyamani)	brought from Coimbatore to FC
		& RI and work may be
		continued with the Co PI
2.	SFB/FCRI/MTP/AGF/2015/R002	The project may be continued
۷.	Fruit Yield and Economic Analysis of selected tree	
	species (STS) under agro Forestry system in Tamil	
	Nadu (Dr. P.Balaji)	
	CARDS/MTP/ARM/2016/001	The project may be continued
3.	Value chain Analysis of plywood in Coimbatore	
3.	District	
	(Dr. P.Balaji)	
	AECRI/MTP/FAP/2016/001	Project approved.
4.	Optmisation of process parameters and	Work initiated
7.	pretreatments for extraction of Cassia fistula seed	
	gum for use as hydrocolloid (P.Sudha)	

3. Action plan (2017 – 2019)

Theme1	TBO'S Based Biofuels Production				
Theme Leader	Dr. K.T.Parthiban, Professor and Nodal Officer (i/c)				
Projects	CPBG/MTP/PBG/2016/002				
S. No.	Activity	Name of the Scientist and centre along with man hours	2017 – 2018	2018 – 2019	Deliverables /Expected outcome
1	Identification of high yielding variety suitable for TBO's production	Dr.K.T.Parthiban (4 h / week) Dr.P.S.Devanand (2 h / week) Dr.S.Vennila (2 h / week) Dr.M.Umadevi (1 h / week) Centre: FC&RI Dr. P.Jeyamani (2 h / week) Centre: Dept. of Pulses, TNAU, Coimbatore	Inventory of TBO's	Improvement and deployment of TBO's	High yielding variety suitable for biofuels production
2	Assessment of TBO's production in Tamil Nadu	Dr.P.Balaji (4h / week) Dr.M.Shanthasheela (2h / week) Centre: FC&RI Dr.V.Karthik (1h / week)	Survey of TBO's production in Tamil Nadu	Market potential of TBO's	Exploring the marketing opportunities of oil yielding tree species

Theme2	Lignocellulosic biomass based ethanol production					
Theme	Dr. U.Sivakumar, Pro	ofessor (Microbiology) & Dr.I	K.T.Parthiban Professor	(Forestry)		
Leader				-		
S. No.	Activity	Name of the Scientist and	2017 - 2018	2018 - 2019	Deliverables /	
		centre along with man			Expected outcome	
		hours				
1	Inventory and	Dr. S.Radhakrishnan	Inventory of wood	Improvement and	High cellulose and	
	prioritization of	(2 h / week)	lignocellulosic	deployment for	low lignin content	
	wood	Dr. S. Vennila	biomass	high cellulose and	wood	
	lignocellulosic	(2 h / week)		low lignin content	lignocellulosic	
	biomass	Dr. R.Ravikumar	Prioritization of		biomass	
		(1 h / week)	wood lignocellulosic			
		Centre: FC&RI	biomass			
		Dr. S.Umeshkanna				
		(5 h / week)				
		Centre: AC&RI, Madurai				
2	Development of	Dr.G.Thangamani	Screening of	Development of	Standard protocol	
	protocol for species	(6 h / week)	efficient	protocol for	for biomass	
	specific	Dr.M.Tilak	lignocellulolytic	species specific	delignification	
	delignification	(2 h / week)	micro organism	delignification	process	
	process	Centre: FC&RI				
3	Value addition of	Dr.P.Balaji	Value addition of	To establish	To develop	
	lignocellulosic	(2 h / week)	lignocellulosic	industrial linkage	organized value	
	biomass and value	Dr.P.Sudha	biomass		chain system for	
	chain management	(6 h / week)			biofuel industry	
		Dr.V.Karthik				
		(1h / week)	Value chain			
			management of			
		Dr.M.Shanthasheela	lignocellulosic			
		(2 h / week)	biomass			
		Centre: FC&RI				

Load of each scientist (Theme wise)

Theme 1: TBO'S Based Biofuels Production

Theme 2: Lignocellulosic biomass based ethanol production

S. No.	Name of the Scientist	Theme 1	Theme 2	Total
	(m	an hours / week)		
1.	Dr. K.T.Parthiban	4	-	4
2.	Dr.U.Sivakumar	-	2	2
3.	Dr.P.Balaji	4	2	6
4.	Dr.S.Radhakrishnan	-	2	2
5.	Dr.G.Thangamani	-	6	6
6.	Dr. P. Sudha	-	6	6
7.	Dr. P.Jeyamani	2	-	2
8.	Dr.S.Umeshkanna	-	5	5
9.	Dr.P.S.Devanand	2	-	2
10.	Dr.S.Vennila	2	2	4
11.	Dr.M.Umadevi	1	-	1
12.	Dr.M.Shantha Sheela	2	2	4
13.	Dr. M. Tilak	-	2	2
14.	Dr.R.Ravikumar	-	1	1
15.	Dr. V. Karthick	1	1	2

WORK LOAD OF SCIENTISTS

S.		
No.	Scientists	% of time
1	Dr. P.Balaji	
	University Research Project – 2	20
	Externally Funded Project – 2	20
	Teaching	35
	Students guide	10
	Additional Responsibility	15
3	Dr. G.Thangamani	
	Research	40
	Teaching	35
	Students guide	15
	Additional Responsibility	10
4	Dr. P.Sudha	
	University Research Project – 1	20
	Externally Funded Project – 2	25
	Teaching	35
·	Students guide	10
	Additional Responsibility	10

VI. 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 (URP: 296)	The project may be
	An economic analysis of cocoon production in traditional and	continued
	non traditional sericulture areas of Tamil Nadu	
	" (Dr.S.Susikaran)	
2.	CPPS/MTP/SER/2017/001 (URP: 428)	The project may be
	Value addition to Mulberry Silkworm Rearing Waste and	continued
	their impact on both Mulberry and Silkworm	
	(Dr.R.Shanmugam)	
3.	CPPS/MTP/SER/2017/001 (URP: 429)	The project may be
	Effect of probiotics on growth and development of silkworm,	continued
	Bombyx mori L. (Dr.P.Priyadharshini)	
4	CPPS/MTP/SER/2017/001 (URP: 497)	The project may be
	Effect of minerals on growth and development of silkworm,	continued
	Bombyx mori L. and their impact influence on cocoon	
	economic traits (Dr.K.A.Murugesh)	

Theme 1	Host plant production	on and management					
Theme	Dr.S.V.Krishnamooi	:thy					
Leaders	Dr.K.Angappan						
S. No.	Activity	Name of the Scientist and centre along with man hours	2017 – 2018	2018 – 2020	Deliverables / Expected outcome		
1	Evaluation and assessment of genetic variability and genetic diversity of mulberry clones planted at FC & RI, Mettupalayam	R.Shanmugam (6 h / week) P.Mangammal (6 h / week)	To evaluate the mulberry clones. To assess the genetic variability and genetic diversity.	To determine the feed quality of assembled mulberry clones. To characterize the mulberry clones through biochemical and molecular markers.	Suitability of mulberry clones under Tamil Nadu condition for silkworm hybrids will be identified.		
	Integrated Plant protection in mulberry through non chemical methods	Dr. S.Susikaran (6 h / week) Dr.K.A.Murugesh (6 h / week) Dr.P.Priyadharshini (6 h / week)	Survey to collect and documentation of root rot infected specimens from sericulture practicing areas of Tamil Nadu. Isolation, Identification and documentation of different root rot pathogen. To study the factors (soil, water, irrigation system etc.) inducing	Screening of nutrients botanicals, biocontrol agents, organic amendments and fungicides against root rot pathogen under <i>in vitro</i> condition. Screening of selected nutrients, botanicals,	Integrated disease management package for mulberry root rot will be developed		

root rot disease in	biocontrol agents,
mulberry.	organic
	amendments and
	fungicides against
	root rot pathogen
	under pot culture
	condition.
	Developing
	Integrated Disease
	Management
	(IDM) for
	managing root rot
	disease in mulberry
	and evaluation of
	IDM techniques in
	vivo.

The	me 2: Silkworm prod	luction and management			
1.	An economic analysis of cocoon production in traditional and non traditional sericulture areas of Tamil Nadu	Dr.S. Susikaran	To analyse the economic viability of mulberry leaf production and silkworm cocoon production in traditional and non traditional districts. Analysis of data collected from State Sericulture Department revealed marginal decrease of mulberry acreage and cocoon production during 2015-16 by 5.99 % and 5.01 % respectively.	To study the marketing and price behaviour of cocoon in markets of selected districts. To identify the major constraints in silkworm rearing and marketing of cocoon.	Minimizing the cost of cocoon production
2	Effect of probiotics on growth and development of silkworm, <i>Bombyx mori L.</i> "	Dr.P.Priyadharshini	Screening and application of commercially available probiotics on different silkworm races.	To study the impact of probiotics on enzyme activity of silkworm races. To enumerate and	Economic traits of silkworm will be improved

				identify the indigenous gut microbial population. To study the economic traits of silkworm races.	
3.	Effect of minerals on growth and development of silkworm, <i>Bombyx mori L</i> . and their impact influence on cocoon economic traits	Dr.K.A.Murugesh	Studying the influence of minerals on growth and development of silkworm larvae.	Assessing the effects of combination of selected minerals on biological characters of silkworm. 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

1.	Value addition to Mulberry Silkworm Rearing Waste and their impact on both Mulberry and Silkworm	Dr.R.Shanmugam	To study the soil conditions of the experimental field.	To analyse the nutritive value of seriwaste-compost.	
			To prepare enriched seriwaste-compost. Collection of silkworm rearing wastes.	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	

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
	Additional Responsibilities	15
6.	Dr.K.A.Murugesh	
	Univ. Sub Project-1	25
	Teaching	30
	Students guide	20
	Additional Responsibilities	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
	Additional Responsibilities	25
11.	Dr.R.Shanmugam	
	Univ. Sub Project-1	25
	Teaching	50
	Additional Responsibilities	25
12.	Dr.P.Mangammal	
	Univ. Sub Project-1	25
	Teaching	50
	Additional Responsibilities	25
13.	Dr.R.Rajeswari	
	Ext.funded projects	45
	Teaching	45
	Additional Responsibilities	10